

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1	58724.877969807	563.8 ^{+1.1} _{-1.1}	4.4 ^{+1.3} _{-1.3}	160 ⁺⁵² ₋₅₂	1386	21.48 ^{+0.38} _{-0.38}	93.49 ^{+0.47} _{-0.47}	1.06E+38	5.33E+35
2	58724.878524804	563.4 ^{+1.3} _{-1.3}	6.1 ^{+0.9} _{-0.9}	74 ⁺⁵⁰ ₋₅₀	1106	12.83 ^{+0.22} _{-0.22}	78.71 ^{+1.54} _{-1.54}	8.43E+37	1.65E+36
3	58724.878695930	563.0 ^{+1.4} _{-1.4}	4.9 ^{+1.4} _{-1.4}	82 ⁺⁴¹ ₋₄₁	1381	19.06 ^{+0.33} _{-0.33}	94.15 ^{+0.46} _{-0.46}	1.06E+38	5.21E+35
4	58724.878839835	564.2 ^{+0.8} _{-0.8}	5.0 ^{+2.5} _{-2.5}	96 ⁺⁹ ₋₉	1387	11.73 ^{+0.20} _{-0.20}	59.25 ^{+0.49} _{-0.49}	6.70E+37	5.59E+35
5	58724.879395083	563.3 ^{+1.3} _{-1.3}	5.7 ^{+1.7} _{-1.7}	94 ⁺³ ₋₃	1367	13.91 ^{+0.23} _{-0.23}	79.22 ^{+0.41} _{-0.41}	8.95E+37	4.61E+35
6	58724.879395550	564.3 ^{+0.6} _{-0.6}	4.3 ^{+1.6} _{-1.6}	58 ⁺¹⁷ ₋₁₇	1408	15.32 ^{+0.26} _{-0.26}	65.37 ^{+0.41} _{-0.41}	7.39E+37	4.63E+35
7	58724.880739012	562.4 ^{+0.1} _{-0.1}	4.0 ^{+0.3} _{-0.3}	216 ⁺³⁶ ₋₃₆	1361	28.25 ^{+1.72} _{-1.72}	113.00 ^{+0.48} _{-0.48}	1.21E+38	5.16E+35
8	58724.881109112	564.4 ^{+0.2} _{-0.2}	2.4 ^{+0.2} _{-0.2}	185 ⁺¹⁸ ₋₁₈	1397	68.29 ^{+1.13} _{-1.13}	163.69 ^{+0.23} _{-0.23}	1.85E+38	2.65E+35
9	58724.882669149	562.9 ^{+1.3} _{-1.3}	1.9 ^{+0.8} _{-0.8}	122 ⁺¹¹ ₋₁₁	1340	16.62 ^{+0.27} _{-0.27}	31.79 ^{+0.20} _{-0.20}	3.59E+37	2.27E+35
10	58724.883048110	564.7 ^{+0.8} _{-0.8}	4.8 ^{+1.5} _{-1.5}	72 ⁺¹¹ ₋₁₁	1389	17.30 ^{+0.28} _{-0.28}	83.21 ^{+0.40} _{-0.40}	9.40E+37	4.56E+35
11	58724.883095774	563.1 ^{+1.2} _{-1.2}	4.3 ^{+1.4} _{-1.4}	49 ⁺²⁴ ₋₂₄	1408	15.28 ^{+0.24} _{-0.24}	65.61 ^{+0.33} _{-0.33}	7.41E+37	3.77E+35
12	58724.883601411	563.9 ^{+1.0} _{-1.0}	4.0 ^{+0.9} _{-0.9}	80 ⁺¹⁹ ₋₁₉	1386	21.33 ^{+0.34} _{-0.34}	85.23 ^{+0.29} _{-0.29}	9.63E+37	3.31E+35
13	58724.884020575	563.2 ^{+1.2} _{-1.2}	6.4 ^{+1.2} _{-1.2}	253 ⁺⁴¹ ₋₄₁	1291	31.33 ^{+0.49} _{-0.49}	201.07 ^{+0.61} _{-0.61}	2.27E+38	6.91E+35
14	58724.884021120	563.1 ^{+1.3} _{-1.3}	6.9 ^{+2.9} _{-2.9}	69 ⁺³³ ₋₃₃	1421	16.53 ^{+0.26} _{-0.26}	114.81 ^{+0.74} _{-0.74}	1.30E+38	8.38E+35
15	58724.884021175	563.1 ^{+1.1} _{-1.1}	7.1 ^{+2.4} _{-2.4}	115 ⁺¹⁷ ₋₁₇	1430	17.19 ^{+0.27} _{-0.27}	122.12 ^{+0.64} _{-0.64}	1.38E+38	7.28E+35
16	58724.885063602	561.7 ^{+1.0} _{-1.0}	3.6 ^{+1.6} _{-1.6}	101 ⁺⁸² ₋₈₂	1371	10.86 ^{+0.17} _{-0.17}	38.58 ^{+0.27} _{-0.27}	4.36E+37	3.06E+35
17	58724.885064173	564.0 ^{+0.7} _{-0.7}	9.4 ^{+4.5} _{-4.5}	65 ⁺⁶ ₋₆	1419	13.59 ^{+0.21} _{-0.21}	127.63 ^{+0.93} _{-0.93}	1.44E+38	1.05E+36
18	58724.886093351	564.8 ^{+0.0} _{-0.0}	2.8 ^{+0.0} _{-0.0}	442 ⁺¹⁷ ₋₁₇	1248	269.05 ^{+1.89} _{-1.89}	761.41 ^{+0.04} _{-0.04}	8.15E+38	4.05E+34
19	58724.886327344	563.0 ^{+1.2} _{-1.2}	8.5 ^{+3.3} _{-3.3}	112 ⁺⁶⁹ ₋₆₉	1193	11.72 ^{+0.18} _{-0.18}	99.73 ^{+0.58} _{-0.58}	1.13E+38	6.61E+35
20	58724.887191747	563.1 ^{+1.2} _{-1.2}	5.3 ^{+2.5} _{-2.5}	79 ⁺²³ ₋₂₃	1424	10.57 ^{+0.16} _{-0.16}	56.05 ^{+0.38} _{-0.38}	6.33E+37	4.35E+35
21	58724.887192057	563.6 ^{+1.1} _{-1.1}	6.6 ^{+2.6} _{-2.6}	49 ⁺¹⁵ ₋₁₅	1421	15.54 ^{+0.23} _{-0.23}	102.90 ^{+0.61} _{-0.61}	1.16E+38	6.87E+35
22	58724.887294544	562.9 ^{+1.4} _{-1.4}	6.4 ^{+0.9} _{-0.9}	78 ⁺⁴¹ ₋₄₁	1389	7.00 ^{+0.10} _{-0.10}	44.50 ^{+0.76} _{-0.76}	4.76E+37	8.09E+35
23	58724.887333861	563.4 ^{+1.3} _{-1.3}	8.5 ^{+1.2} _{-1.2}	64 ⁺¹⁸ ₋₁₈	1381	6.27 ^{+0.09} _{-0.09}	53.35 ^{+0.91} _{-0.91}	5.71E+37	9.70E+35
24	58724.887492774	563.4 ^{+1.4} _{-1.4}	2.7 ^{+0.8} _{-0.8}	52 ⁺⁹ ₋₉	1186	11.41 ^{+0.17} _{-0.17}	31.14 ^{+0.13} _{-0.13}	3.52E+37	1.44E+35
25	58724.887493007	562.5 ^{+1.2} _{-1.2}	1.5 ^{+0.8} _{-0.8}	88 ⁺¹⁶ ₋₁₆	1375	8.65 ^{+0.13} _{-0.13}	12.57 ^{+0.10} _{-0.10}	1.42E+37	1.16E+35
26	58724.888319173	563.7 ^{+1.2} _{-1.2}	4.3 ^{+0.6} _{-0.6}	92 ⁺¹⁰⁰ ₋₁₀₀	1422	4.47 ^{+0.07} _{-0.07}	19.02 ^{+0.32} _{-0.32}	2.04E+37	3.38E+35
27	58724.888445498	563.0 ^{+1.1} _{-1.1}	4.0 ^{+1.0} _{-1.0}	65 ⁺²⁵ ₋₂₅	1406	22.78 ^{+0.33} _{-0.33}	91.57 ^{+0.33} _{-0.33}	1.03E+38	3.77E+35
28	58724.888545960	565.9 ^{+1.4} _{-1.4}	5.5 ^{+0.6} _{-0.6}	146 ⁺³² ₋₃₂	1318	12.48 ^{+1.26} _{-1.26}	68.52 ^{+0.82} _{-0.82}	7.33E+37	8.77E+35
29	58724.888775608	564.6 ^{+0.8} _{-0.8}	3.6 ^{+0.9} _{-0.9}	72 ⁺⁴⁰ ₋₄₀	1382	18.32 ^{+0.27} _{-0.27}	66.50 ^{+0.24} _{-0.24}	7.51E+37	2.68E+35
30	58724.888785097	562.7 ^{+1.2} _{-1.2}	7.3 ^{+2.6} _{-2.6}	54 ⁺³⁴ ₋₃₄	1404	13.01 ^{+0.19} _{-0.19}	95.51 ^{+0.49} _{-0.49}	1.08E+38	5.49E+35
31	58724.889777743	562.4 ^{+1.0} _{-1.0}	7.9 ^{+1.8} _{-1.8}	47 ⁺²⁵ ₋₂₅	1409	14.53 ^{+0.21} _{-0.21}	114.79 ^{+0.37} _{-0.37}	1.30E+38	4.23E+35
32	58724.889777929	562.5 ^{+1.0} _{-1.0}	8.9 ^{+1.5} _{-1.5}	95 ⁺¹⁸ ₋₁₈	1427	24.22 ^{+0.35} _{-0.35}	216.31 ^{+0.52} _{-0.52}	2.44E+38	5.93E+35
33	58724.889793975	562.8 ^{+1.2} _{-1.2}	2.8 ^{+1.0} _{-1.0}	140 ⁺²¹ ₋₂₁	1370	14.34 ^{+0.20} _{-0.20}	40.72 ^{+0.21} _{-0.21}	4.60E+37	2.33E+35
34	58724.889794263	562.9 ^{+0.9} _{-0.9}	6.1 ^{+2.6} _{-2.6}	118 ⁺³³ ₋₃₃	1234	11.84 ^{+0.17} _{-0.17}	72.53 ^{+0.44} _{-0.44}	8.20E+37	4.94E+35
35	58724.889839889	563.0 ^{+1.2} _{-1.2}	3.9 ^{+0.7} _{-0.7}	227 ⁺⁸⁹ ₋₈₉	1192	27.51 ^{+0.39} _{-0.39}	108.03 ^{+0.28} _{-0.28}	1.22E+38	3.21E+35
36	58724.890038076	563.0 ^{+1.2} _{-1.2}	2.8 ^{+1.1} _{-1.1}	79 ⁺³³ ₋₃₃	1389	11.16 ^{+0.16} _{-0.16}	30.94 ^{+0.17} _{-0.17}	3.50E+37	1.95E+35
37	58724.890038393	562.8 ^{+1.2} _{-1.2}	4.6 ^{+1.8} _{-1.8}	215 ⁺⁹ ₋₉	1150	11.61 ^{+0.17} _{-0.17}	53.41 ^{+0.30} _{-0.30}	6.03E+37	3.42E+35
38	58724.892062916	565.5 ^{+0.9} _{-0.9}	8.0 ^{+1.2} _{-1.2}	59 ⁺⁴ ₋₄	1403	7.94 ^{+0.11} _{-0.11}	63.49 ^{+1.00} _{-1.00}	6.80E+37	1.07E+36
39	58724.892328449	564.9 ^{+0.9} _{-0.9}	5.1 ^{+0.9} _{-0.9}	206 ⁺¹⁹ ₋₁₉	1274	27.10 ^{+0.37} _{-0.37}	139.11 ^{+0.33} _{-0.33}	1.57E+38	3.76E+35
40	58724.892615828	561.7 ^{+0.5} _{-0.5}	2.3 ^{+0.2} _{-0.2}	140 ⁺⁴⁶ ₋₄₆	1389	34.77 ^{+0.47} _{-0.47}	81.57 ^{+0.10} _{-0.10}	9.22E+37	1.14E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
41	58724.892615899	563.5 ^{+0.4} _{-0.4}	4.4 ^{+1.3} _{-1.3}	259 ⁺¹⁰⁴ ₋₁₀₄	1228	17.70 ^{+0.24} _{-0.24}	77.48 ^{+0.32} _{-0.32}	8.76E+37	3.58E+35
42	58724.892774728	560.6 ^{+0.6} _{-0.6}	6.6 ^{+1.2} _{-1.2}	184 ⁺¹⁵ ₋₁₅	1401	29.63 ^{+0.40} _{-0.40}	194.71 ^{+0.47} _{-0.47}	2.20E+38	5.30E+35
43	58724.893475497	564.9 ^{+0.3} _{-0.3}	5.1 ^{+1.4} _{-1.4}	130 ⁺³⁶ ₋₃₆	1400	24.57 ^{+0.33} _{-0.33}	124.67 ^{+0.46} _{-0.46}	1.41E+38	5.18E+35
44	58724.894184819	563.4 ^{+1.2} _{-1.2}	3.7 ^{+1.3} _{-1.3}	207 ⁺²⁵ ₋₂₅	1267	15.50 ^{+0.21} _{-0.21}	57.84 ^{+0.27} _{-0.27}	6.54E+37	3.02E+35
45	58724.894185413	564.6 ^{+0.9} _{-0.9}	3.6 ^{+1.2} _{-1.2}	57 ⁺³³ ₋₃₃	1412	17.47 ^{+0.23} _{-0.23}	63.56 ^{+0.27} _{-0.27}	7.18E+37	3.06E+35
46	58724.894185511	563.4 ^{+1.3} _{-1.3}	4.6 ^{+1.6} _{-1.6}	222 ⁺⁵³ ₋₅₃	1331	14.79 ^{+0.20} _{-0.20}	67.65 ^{+0.31} _{-0.31}	7.64E+37	3.47E+35
47	58724.895179879	563.3 ^{+0.3} _{-0.3}	3.4 ^{+0.7} _{-0.7}	114 ⁺⁴⁵ ₋₄₅	1415	20.34 ^{+0.27} _{-0.27}	69.86 ^{+0.17} _{-0.17}	7.89E+37	1.96E+35
48	58724.895364424	563.1 ^{+1.2} _{-1.2}	6.5 ^{+1.7} _{-1.7}	100 ⁺³⁴ ₋₃₄	1363	17.57 ^{+0.23} _{-0.23}	114.98 ^{+0.39} _{-0.39}	1.30E+38	4.43E+35
49	58724.896440388	562.4 ^{+1.3} _{-1.3}	2.5 ^{+0.4} _{-0.4}	133 ⁺²⁸ ₋₂₈	1359	24.59 ^{+0.32} _{-0.32}	60.81 ^{+0.14} _{-0.14}	6.87E+37	1.55E+35
50	58724.897390750	562.7 ^{+1.3} _{-1.3}	4.2 ^{+2.5} _{-2.5}	46 ⁺³ ₋₃	1422	14.00 ^{+0.18} _{-0.18}	58.91 ^{+0.45} _{-0.45}	6.66E+37	5.06E+35
51	58724.897440441	562.8 ^{+1.2} _{-1.2}	8.3 ^{+5.1} _{-5.1}	71 ⁺³ ₋₃	1399	12.10 ^{+0.15} _{-0.15}	100.17 ^{+0.78} _{-0.78}	1.13E+38	8.78E+35
52	58724.898163686	563.8 ^{+1.2} _{-1.2}	4.1 ^{+2.3} _{-2.3}	53 ⁺⁴ ₋₄	1434	13.73 ^{+0.17} _{-0.17}	56.97 ^{+0.40} _{-0.40}	6.44E+37	4.53E+35
53	58724.898164989	563.3 ^{+1.2} _{-1.2}	1.5 ^{+0.3} _{-0.3}	63 ⁺¹² ₋₁₂	1341	34.89 ^{+0.44} _{-0.44}	50.71 ^{+0.13} _{-0.13}	5.73E+37	1.47E+35
54	58724.898389555	563.3 ^{+1.2} _{-1.2}	10.6 ^{+3.1} _{-3.1}	83 ⁺⁴ ₋₄	1414	14.79 ^{+0.18} _{-0.18}	156.93 ^{+0.57} _{-0.57}	1.77E+38	6.48E+35
55	58724.898390155	563.2 ^{+1.3} _{-1.3}	5.4 ^{+1.4} _{-1.4}	63 ⁺³ ₋₃	1380	16.72 ^{+0.21} _{-0.21}	90.65 ^{+0.30} _{-0.30}	1.02E+38	3.39E+35
56	58724.899223696	564.1 ^{+1.1} _{-1.1}	5.5 ^{+2.1} _{-2.1}	70 ⁺⁷ ₋₇	1375	14.03 ^{+0.17} _{-0.17}	77.17 ^{+0.37} _{-0.37}	8.72E+37	4.20E+35
57	58724.899223988	563.6 ^{+1.3} _{-1.3}	2.0 ^{+0.8} _{-0.8}	62 ⁺³⁶ ₋₃₆	1423	13.60 ^{+0.17} _{-0.17}	26.81 ^{+0.13} _{-0.13}	3.03E+37	1.44E+35
58	58724.901065408	562.9 ^{+1.3} _{-1.3}	6.5 ^{+0.9} _{-0.9}	165 ⁺⁷ ₋₇	1409	31.26 ^{+0.38} _{-0.38}	201.66 ^{+0.35} _{-0.35}	2.28E+38	3.90E+35
59	58724.902035308	562.5 ^{+1.2} _{-1.2}	6.4 ^{+1.3} _{-1.3}	102 ⁺⁷ ₋₇	1443	20.65 ^{+0.25} _{-0.25}	131.65 ^{+0.31} _{-0.31}	1.49E+38	3.53E+35
60	58724.902265701	562.7 ^{+1.2} _{-1.2}	2.0 ^{+0.5} _{-0.5}	64 ⁺¹⁸ ₋₁₈	1428	22.38 ^{+0.27} _{-0.27}	44.51 ^{+0.14} _{-0.14}	5.03E+37	1.59E+35
61	58724.902685267	563.0 ^{+1.4} _{-1.4}	3.6 ^{+0.3} _{-0.3}	137 ⁺¹⁶ ₋₁₆	1164	41.73 ^{+0.49} _{-0.49}	148.64 ^{+0.16} _{-0.16}	1.68E+38	1.77E+35
62	58724.903679982	563.3 ^{+1.3} _{-1.3}	6.5 ^{+0.8} _{-0.8}	138 ⁺²¹ ₋₂₁	1415	8.97 ^{+0.97} _{-0.97}	58.48 ^{+0.81} _{-0.81}	6.26E+37	8.62E+35
63	58724.903680244	562.2 ^{+1.2} _{-1.2}	8.6 ^{+3.7} _{-3.7}	161 ⁺⁸⁷ ₋₈₇	1184	11.47 ^{+0.13} _{-0.13}	99.12 ^{+0.48} _{-0.48}	1.12E+38	5.46E+35
64	58724.904300252	562.8 ^{+1.5} _{-1.5}	8.3 ^{+2.5} _{-2.5}	69 ⁺¹² ₋₁₂	1352	13.40 ^{+0.15} _{-0.15}	111.17 ^{+0.38} _{-0.38}	1.26E+38	4.31E+35
65	58724.904323533	562.8 ^{+1.4} _{-1.4}	2.5 ^{+0.2} _{-0.2}	79 ⁺²⁴ ₋₂₄	1390	25.44 ^{+0.29} _{-0.29}	62.50 ^{+0.07} _{-0.07}	7.06E+37	7.59E+34
66	58724.904992793	563.8 ^{+1.3} _{-1.3}	7.4 ^{+0.7} _{-0.7}	134 ⁺⁷ ₋₇	1428	34.88 ^{+0.40} _{-0.40}	257.63 ^{+0.29} _{-0.29}	2.91E+38	3.32E+35
67	58724.905752964	562.9 ^{+1.5} _{-1.5}	3.9 ^{+1.5} _{-1.5}	89 ⁺⁶¹ ₋₆₁	1392	9.44 ^{+0.11} _{-0.11}	36.43 ^{+0.16} _{-0.16}	4.12E+37	1.81E+35
68	58724.905925450	562.9 ^{+1.5} _{-1.5}	2.3 ^{+1.0} _{-1.0}	30 ⁺⁴ ₋₄	1453	11.53 ^{+0.13} _{-0.13}	26.65 ^{+0.12} _{-0.12}	3.01E+37	1.38E+35
69	58724.906869884	562.8 ^{+1.2} _{-1.2}	5.1 ^{+2.1} _{-2.1}	113 ⁺¹² ₋₁₂	1195	10.38 ^{+0.11} _{-0.11}	53.28 ^{+0.23} _{-0.23}	6.02E+37	2.62E+35
70	58724.906918029	564.2 ^{+1.0} _{-1.0}	3.5 ^{+0.1} _{-0.1}	102 ⁺⁷¹ ₋₇₁	1124	21.05 ^{+1.25} _{-1.25}	73.67 ^{+0.07} _{-0.07}	7.89E+37	8.03E+34
71	58724.906918128	563.9 ^{+0.1} _{-0.1}	5.4 ^{+0.4} _{-0.4}	492 ⁺³ ₋₃	1253	102.48 ^{+1.53} _{-1.53}	548.27 ^{+0.60} _{-0.60}	5.87E+38	6.39E+35
72	58724.907257145	564.4 ^{+0.8} _{-0.8}	3.0 ^{+0.3} _{-0.3}	63 ⁺²⁹ ₋₂₉	1374	28.67 ^{+0.31} _{-0.31}	86.88 ^{+0.08} _{-0.08}	9.82E+37	9.13E+34
73	58724.907311326	562.4 ^{+1.3} _{-1.3}	11.0 ^{+3.4} _{-3.4}	58 ⁺²⁹ ₋₂₉	1388	12.64 ^{+0.14} _{-0.14}	139.62 ^{+0.46} _{-0.46}	1.58E+38	5.24E+35
74	58724.907656113	563.8 ^{+1.1} _{-1.1}	2.4 ^{+0.2} _{-0.2}	245 ⁺⁶⁹ ₋₆₉	1346	40.92 ^{+0.44} _{-0.44}	98.09 ^{+0.10} _{-0.10}	1.11E+38	1.10E+35
75	58724.907686225	563.2 ^{+1.3} _{-1.3}	6.8 ^{+1.1} _{-1.1}	219 ⁺³⁵ ₋₃₅	1372	20.24 ^{+0.22} _{-0.22}	138.14 ^{+0.23} _{-0.23}	1.56E+38	2.63E+35
76	58724.907786077	563.4 ^{+1.2} _{-1.2}	8.9 ^{+2.0} _{-2.0}	94 ⁺⁴² ₋₄₂	1398	20.53 ^{+0.22} _{-0.22}	183.55 ^{+0.45} _{-0.45}	2.07E+38	5.10E+35
77	58724.907826215	562.5 ^{+1.2} _{-1.2}	3.5 ^{+0.7} _{-0.7}	66 ⁺¹⁰ ₋₁₀	1423	17.25 ^{+0.19} _{-0.19}	61.00 ^{+0.14} _{-0.14}	6.89E+37	1.53E+35
78	58724.907877182	563.4 ^{+1.3} _{-1.3}	2.9 ^{+0.4} _{-0.4}	59 ⁺²⁸ ₋₂₈	1266	25.28 ^{+0.27} _{-0.27}	73.07 ^{+0.11} _{-0.11}	8.26E+37	1.29E+35
79	58724.908373297	564.4 ^{+0.5} _{-0.5}	3.8 ^{+0.6} _{-0.6}	90 ⁺³⁸ ₋₃₈	1150	23.28 ^{+0.25} _{-0.25}	88.05 ^{+0.15} _{-0.15}	9.95E+37	1.71E+35
80	58724.908558093	563.2 ^{+1.2} _{-1.2}	5.3 ^{+1.5} _{-1.5}	161 ⁺⁴⁰ ₋₄₀	1391	16.23 ^{+0.17} _{-0.17}	86.76 ^{+0.25} _{-0.25}	9.80E+37	2.86E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
81	58724.908558224	563.7 ^{+1.1} _{-1.1}	6.1 ^{+1.3} _{-1.3}	73 ⁺¹⁴ ₋₁₄	1303	15.29 ^{+0.16} _{-0.16}	93.07 ^{+0.21} _{-0.21}	1.05E+38	2.32E+35
82	58724.908558633	563.4 ^{+0.5} _{-0.5}	10.1 ^{+2.7} _{-2.7}	35 ⁺⁴ ₋₄	1384	9.12 ^{+0.10} _{-0.10}	92.35 ^{+0.27} _{-0.27}	1.04E+38	3.01E+35
83	58724.908560124	561.7 ^{+1.2} _{-1.2}	1.5 ^{+1.7} _{-1.7}	81 ⁺⁵¹ ₋₅₁	1364	4.04 ^{+0.04} _{-0.04}	5.93 ^{+0.07} _{-0.07}	6.70E+36	8.22E+34
84	58724.908560388	561.4 ^{+0.8} _{-0.8}	8.4 ^{+1.9} _{-1.9}	46 ⁺²⁵ ₋₂₅	1387	16.93 ^{+0.18} _{-0.18}	141.49 ^{+0.34} _{-0.34}	1.60E+38	3.89E+35
85	58724.908566432	562.4 ^{+1.1} _{-1.1}	7.0 ^{+2.2} _{-2.2}	97 ⁺¹⁵ ₋₁₅	1257	12.34 ^{+0.13} _{-0.13}	86.51 ^{+0.28} _{-0.28}	9.78E+37	3.21E+35
86	58724.908750947	564.6 ^{+0.6} _{-0.6}	4.5 ^{+0.4} _{-0.4}	76 ⁺¹⁰ ₋₁₀	1437	15.70 ^{+1.35} _{-1.35}	70.49 ^{+0.61} _{-0.61}	7.55E+37	6.50E+35
87	58724.909935212	562.3 ^{+1.2} _{-1.2}	5.8 ^{+1.3} _{-1.3}	67 ⁺³² ₋₃₂	1361	14.85 ^{+0.15} _{-0.15}	85.57 ^{+0.21} _{-0.21}	9.67E+37	2.32E+35
88	58724.910570064	563.9 ^{+1.0} _{-1.0}	8.5 ^{+0.5} _{-0.5}	149 ⁺¹³ ₋₁₃	1311	17.99 ^{+0.92} _{-0.92}	153.63 ^{+0.48} _{-0.48}	1.64E+38	5.12E+35
89	58724.910581148	564.0 ^{+0.9} _{-0.9}	3.1 ^{+0.4} _{-0.4}	119 ⁺³³ ₋₃₃	1394	20.84 ^{+0.21} _{-0.21}	64.31 ^{+0.09} _{-0.09}	7.27E+37	1.02E+35
90	58724.911005576	561.8 ^{+1.1} _{-1.1}	2.2 ^{+0.5} _{-0.5}	60 ⁺²² ₋₂₂	1368	18.79 ^{+0.19} _{-0.19}	41.05 ^{+0.10} _{-0.10}	4.64E+37	1.13E+35
91	58724.911073951	561.0 ^{+0.8} _{-0.8}	6.6 ^{+1.2} _{-1.2}	114 ⁺³³ ₋₃₃	1429	17.41 ^{+0.18} _{-0.18}	115.25 ^{+0.22} _{-0.22}	1.30E+38	2.50E+35
92	58724.911572622	562.9 ^{+1.3} _{-1.3}	2.3 ^{+0.6} _{-0.6}	59 ⁺⁸ ₋₈	1428	14.61 ^{+0.15} _{-0.15}	33.90 ^{+0.09} _{-0.09}	3.83E+37	1.03E+35
93	58724.911983073	563.4 ^{+1.2} _{-1.2}	8.4 ^{+1.1} _{-1.1}	112 ⁺¹⁹ ₋₁₉	1426	18.77 ^{+0.19} _{-0.19}	158.14 ^{+0.21} _{-0.21}	1.79E+38	2.41E+35
94	58724.912193062	562.7 ^{+1.1} _{-1.1}	4.2 ^{+0.4} _{-0.4}	176 ⁺²⁴ ₋₂₄	1408	33.15 ^{+0.33} _{-0.33}	140.59 ^{+0.14} _{-0.14}	1.59E+38	1.58E+35
95	58724.912522240	563.4 ^{+1.3} _{-1.3}	3.6 ^{+1.2} _{-1.2}	54 ⁺³⁰ ₋₃₀	1362	11.02 ^{+0.11} _{-0.11}	39.98 ^{+0.13} _{-0.13}	4.52E+37	1.45E+35
96	58724.912560448	563.4 ^{+1.2} _{-1.2}	7.1 ^{+1.1} _{-1.1}	256 ⁺²⁴ ₋₂₄	1251	19.03 ^{+0.19} _{-0.19}	135.56 ^{+0.21} _{-0.21}	1.53E+38	2.37E+35
97	58724.912640266	563.4 ^{+1.3} _{-1.3}	4.2 ^{+0.9} _{-0.9}	63 ⁺⁸¹ ₋₈₁	1228	11.61 ^{+0.12} _{-0.12}	48.24 ^{+0.11} _{-0.11}	5.45E+37	1.20E+35
98	58724.912640884	562.8 ^{+1.4} _{-1.4}	5.9 ^{+1.8} _{-1.8}	233 ⁺¹⁴⁴ ₋₁₄₄	1339	9.47 ^{+0.09} _{-0.09}	56.09 ^{+0.17} _{-0.17}	6.34E+37	1.94E+35
99	58724.912785011	563.8 ^{+1.2} _{-1.2}	9.0 ^{+0.8} _{-0.8}	134 ⁺³³ ₋₃₃	1331	12.86 ^{+0.94} _{-0.94}	116.13 ^{+0.74} _{-0.74}	1.24E+38	7.95E+35
100	58724.912856015	563.9 ^{+1.2} _{-1.2}	4.2 ^{+0.9} _{-0.9}	43 ⁺³¹ ₋₃₁	1392	14.94 ^{+0.15} _{-0.15}	62.98 ^{+0.14} _{-0.14}	7.12E+37	1.55E+35
101	58724.913276912	562.6 ^{+1.1} _{-1.1}	5.7 ^{+0.9} _{-0.9}	77 ⁺¹⁸ ₋₁₈	1184	22.53 ^{+0.22} _{-0.22}	128.89 ^{+0.20} _{-0.20}	1.46E+38	2.27E+35
102	58724.914093750	563.5 ^{+1.3} _{-1.3}	2.9 ^{+0.5} _{-0.5}	90 ⁺¹⁶ ₋₁₆	1421	15.66 ^{+0.15} _{-0.15}	45.66 ^{+0.08} _{-0.08}	5.16E+37	8.99E+34
103	58724.914094347	563.1 ^{+1.2} _{-1.2}	5.0 ^{+0.7} _{-0.7}	163 ⁺³² ₋₃₂	1203	23.05 ^{+0.22} _{-0.22}	115.23 ^{+0.15} _{-0.15}	1.30E+38	1.74E+35
104	58724.914094503	562.4 ^{+1.0} _{-1.0}	7.2 ^{+2.0} _{-2.0}	207 ⁺⁴ ₋₄	1248	12.30 ^{+0.12} _{-0.12}	88.95 ^{+0.24} _{-0.24}	1.00E+38	2.71E+35
105	58724.914197840	564.5 ^{+0.5} _{-0.5}	4.5 ^{+0.4} _{-0.4}	234 ⁺³⁹ ₋₃₉	1248	33.23 ^{+0.32} _{-0.32}	148.55 ^{+0.13} _{-0.13}	1.68E+38	1.47E+35
106	58724.915116431	562.3 ^{+1.1} _{-1.1}	11.8 ^{+3.8} _{-3.8}	55 ⁺²⁴ ₋₂₄	1416	9.02 ^{+0.09} _{-0.09}	106.42 ^{+0.33} _{-0.33}	1.20E+38	3.72E+35
107	58724.915659787	563.9 ^{+0.9} _{-0.9}	2.3 ^{+0.4} _{-0.4}	71 ⁺²⁵ ₋₂₅	1112	18.87 ^{+0.24} _{-0.24}	43.14 ^{+0.10} _{-0.10}	4.88E+37	1.10E+35
108	58724.915659840	564.5 ^{+0.5} _{-0.5}	4.1 ^{+0.9} _{-0.9}	123 ⁺⁶¹ ₋₆₁	1378	18.07 ^{+0.23} _{-0.23}	73.41 ^{+0.21} _{-0.21}	8.30E+37	2.32E+35
109	58724.915905807	564.2 ^{+1.0} _{-1.0}	6.0 ^{+1.2} _{-1.2}	101 ⁺³¹ ₋₃₁	1335	16.48 ^{+0.21} _{-0.21}	99.06 ^{+0.26} _{-0.26}	1.12E+38	2.89E+35
110	58724.915954021	563.9 ^{+0.8} _{-0.8}	9.6 ^{+0.8} _{-0.8}	198 ⁺²⁰ ₋₂₀	1310	13.47 ^{+0.95} _{-0.95}	129.45 ^{+0.77} _{-0.77}	1.39E+38	8.24E+35
111	58724.916264889	563.7 ^{+0.5} _{-0.5}	3.9 ^{+0.6} _{-0.6}	109 ⁺⁵⁵ ₋₅₅	1412	29.09 ^{+0.37} _{-0.37}	114.47 ^{+0.20} _{-0.20}	1.29E+38	2.31E+35
112	58724.917270778	562.8 ^{+0.5} _{-0.5}	2.7 ^{+0.3} _{-0.3}	160 ⁺²⁷ ₋₂₇	1417	48.13 ^{+0.61} _{-0.61}	131.31 ^{+0.17} _{-0.17}	1.48E+38	1.93E+35
113	58724.917270936	564.4 ^{+0.6} _{-0.6}	2.2 ^{+0.1} _{-0.1}	250 ⁺⁷⁴ ₋₇₄	1308	42.30 ^{+0.54} _{-0.54}	92.76 ^{+0.08} _{-0.08}	1.05E+38	8.71E+34
114	58724.917317800	563.0 ^{+1.3} _{-1.3}	5.5 ^{+0.6} _{-0.6}	80 ⁺¹⁷ ₋₁₇	1384	16.03 ^{+0.20} _{-0.20}	88.29 ^{+0.13} _{-0.13}	9.98E+37	1.42E+35
115	58724.917317940	562.1 ^{+1.0} _{-1.0}	4.6 ^{+1.7} _{-1.7}	50 ⁺¹¹ ₋₁₁	1411	9.16 ^{+0.12} _{-0.12}	42.28 ^{+0.20} _{-0.20}	4.78E+37	2.27E+35
116	58724.917377228	562.7 ^{+0.2} _{-0.2}	2.1 ^{+0.2} _{-0.2}	137 ⁺²⁵ ₋₂₅	1416	38.64 ^{+0.49} _{-0.49}	80.47 ^{+0.08} _{-0.08}	9.09E+37	9.58E+34
117	58724.917377340	562.8 ^{+0.2} _{-0.2}	2.7 ^{+0.4} _{-0.4}	127 ⁺⁶² ₋₆₂	1101	22.71 ^{+0.29} _{-0.29}	61.96 ^{+0.10} _{-0.10}	7.00E+37	1.15E+35
118	58724.917515069	565.0 ^{+0.5} _{-0.5}	2.4 ^{+0.6} _{-0.6}	68 ⁺⁵ ₋₅	1426	15.94 ^{+0.20} _{-0.20}	37.66 ^{+0.12} _{-0.12}	4.26E+37	1.39E+35
119	58724.917515174	565.0 ^{+0.4} _{-0.4}	4.2 ^{+0.9} _{-0.9}	97 ⁺⁷⁰ ₋₇₀	1356	17.12 ^{+0.22} _{-0.22}	71.87 ^{+0.20} _{-0.20}	8.12E+37	2.22E+35
120	58724.917516041	564.3 ^{+0.4} _{-0.4}	2.9 ^{+0.2} _{-0.2}	117 ⁺¹⁵ ₋₁₅	1194	23.49 ^{+1.55} _{-1.55}	68.36 ^{+0.36} _{-0.36}	7.32E+37	3.82E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
121	58724.917942084	562.6 ^{+1.1} _{-1.1}	8.9 ^{+2.0} _{-2.0}	96 ⁺²² ₋₂₂	1415	12.62 ^{+0.16} _{-0.16}	111.76 ^{+0.32} _{-0.32}	1.26E+38	3.57E+35
122	58724.918141950	564.2 ^{+1.1} _{-1.1}	5.4 ^{+0.3} _{-0.3}	193 ⁺³³ ₋₃₃	1264	22.70 ^{+1.17} _{-1.17}	122.13 ^{+0.37} _{-0.37}	1.31E+38	4.01E+35
123	58724.918142598	564.6 ^{+0.8} _{-0.8}	8.1 ^{+0.4} _{-0.4}	247 ⁺²² ₋₂₂	1312	25.10 ^{+0.96} _{-0.96}	202.81 ^{+0.36} _{-0.36}	2.17E+38	3.80E+35
124	58724.918294744	563.4 ^{+1.0} _{-1.0}	2.9 ^{+1.2} _{-1.2}	48 ⁺⁵ ₋₅	1445	11.89 ^{+0.15} _{-0.15}	34.67 ^{+0.18} _{-0.18}	3.92E+37	1.98E+35
125	58724.918295030	563.3 ^{+1.1} _{-1.1}	7.7 ^{+1.4} _{-1.4}	97 ⁺²⁶ ₋₂₆	1429	18.20 ^{+0.23} _{-0.23}	140.61 ^{+0.31} _{-0.31}	1.59E+38	3.50E+35
126	58724.918728620	564.5 ^{+0.8} _{-0.8}	2.7 ^{+0.2} _{-0.2}	69 ⁺⁵¹ ₋₅₁	1326	31.10 ^{+0.39} _{-0.39}	84.06 ^{+0.10} _{-0.10}	9.50E+37	1.11E+35
127	58724.919404043	564.3 ^{+0.5} _{-0.5}	4.3 ^{+0.7} _{-0.7}	92 ⁺³⁰ ₋₃₀	1386	17.11 ^{+0.22} _{-0.22}	72.85 ^{+0.16} _{-0.16}	8.23E+37	1.76E+35
128	58724.919404201	564.4 ^{+0.6} _{-0.6}	2.7 ^{+0.4} _{-0.4}	93 ⁺⁵² ₋₅₂	1402	17.74 ^{+0.22} _{-0.22}	48.54 ^{+0.10} _{-0.10}	5.49E+37	1.13E+35
129	58724.919567368	563.6 ^{+0.5} _{-0.5}	2.9 ^{+0.3} _{-0.3}	119 ⁺¹⁸ ₋₁₈	1311	29.37 ^{+0.37} _{-0.37}	85.12 ^{+0.11} _{-0.11}	9.62E+37	1.23E+35
130	58724.919567494	564.0 ^{+0.7} _{-0.7}	3.0 ^{+0.7} _{-0.7}	192 ⁺⁹⁸ ₋₉₈	1188	10.25 ^{+0.13} _{-0.13}	30.86 ^{+0.09} _{-0.09}	3.48E+37	1.02E+35
131	58724.920034004	563.4 ^{+0.7} _{-0.7}	4.4 ^{+0.7} _{-0.7}	136 ⁺⁵⁹ ₋₅₉	1345	20.63 ^{+0.26} _{-0.26}	91.18 ^{+0.19} _{-0.19}	1.03E+38	2.10E+35
132	58724.920103817	563.0 ^{+1.2} _{-1.2}	4.2 ^{+0.5} _{-0.5}	84 ⁺¹⁰ ₋₁₀	1385	14.21 ^{+0.18} _{-0.18}	59.56 ^{+0.09} _{-0.09}	6.73E+37	1.07E+35
133	58724.920132003	563.3 ^{+0.9} _{-0.9}	10.7 ^{+2.8} _{-2.8}	141 ⁺³⁶ ₋₃₆	1397	14.07 ^{+0.18} _{-0.18}	149.99 ^{+0.49} _{-0.49}	1.69E+38	5.52E+35
134	58724.920132099	562.9 ^{+1.0} _{-1.0}	5.4 ^{+1.8} _{-1.8}	73 ⁺³⁶ ₋₃₆	1393	8.66 ^{+0.11} _{-0.11}	46.43 ^{+0.19} _{-0.19}	5.25E+37	2.18E+35
135	58724.920301487	564.6 ^{+0.6} _{-0.6}	2.7 ^{+0.3} _{-0.3}	121 ⁺³² ₋₃₂	1383	36.22 ^{+0.45} _{-0.45}	98.21 ^{+0.12} _{-0.12}	1.11E+38	1.30E+35
136	58724.920487867	562.9 ^{+1.2} _{-1.2}	3.6 ^{+0.3} _{-0.3}	161 ⁺¹⁸ ₋₁₈	1397	31.62 ^{+0.40} _{-0.40}	114.23 ^{+0.13} _{-0.13}	1.29E+38	1.44E+35
137	58724.920775267	563.7 ^{+1.1} _{-1.1}	3.7 ^{+0.3} _{-0.3}	179 ⁺¹² ₋₁₂	1388	42.84 ^{+0.53} _{-0.53}	159.49 ^{+0.14} _{-0.14}	1.80E+38	1.58E+35
138	58724.921228404	563.6 ^{+1.2} _{-1.2}	5.7 ^{+1.3} _{-1.3}	107 ⁺³⁵ ₋₃₅	1234	15.77 ^{+0.20} _{-0.20}	90.46 ^{+0.25} _{-0.25}	1.02E+38	2.85E+35
139	58724.921271896	563.3 ^{+0.9} _{-0.9}	5.6 ^{+1.5} _{-1.5}	66 ⁺²⁶ ₋₂₆	1386	13.25 ^{+0.16} _{-0.16}	74.55 ^{+0.24} _{-0.24}	8.42E+37	2.74E+35
140	58724.921546124	564.0 ^{+0.7} _{-0.7}	2.7 ^{+0.3} _{-0.3}	117 ⁺⁵ ₋₅	1289	29.66 ^{+0.37} _{-0.37}	79.17 ^{+0.11} _{-0.11}	8.95E+37	1.21E+35
141	58724.921783684	563.3 ^{+1.3} _{-1.3}	1.5 ^{+0.4} _{-0.4}	132 ⁺³⁷ ₋₃₇	1347	10.64 ^{+2.40} _{-2.40}	16.07 ^{+1.03} _{-1.03}	1.72E+37	1.10E+36
142	58724.921810361	562.4 ^{+0.1} _{-0.1}	2.7 ^{+0.0} _{-0.0}	473 ⁺⁹ ₋₉	1263	408.51 ^{+5.04} _{-5.04}	1090.31 ^{+0.13} _{-0.13}	1.23E+39	1.48E+35
143	58724.922511637	563.3 ^{+1.2} _{-1.2}	1.7 ^{+0.2} _{-0.2}	79 ⁺³⁸ ₋₃₈	1373	24.00 ^{+0.29} _{-0.29}	40.19 ^{+0.07} _{-0.07}	4.54E+37	7.37E+34
144	58724.922511667	564.1 ^{+1.1} _{-1.1}	2.0 ^{+0.3} _{-0.3}	130 ⁺²⁵ ₋₂₅	1283	14.14 ^{+0.17} _{-0.17}	27.65 ^{+0.05} _{-0.05}	3.12E+37	6.17E+34
145	58724.922749148	565.6 ^{+0.2} _{-0.2}	3.0 ^{+0.2} _{-0.2}	144 ⁺¹⁸ ₋₁₈	1408	50.99 ^{+0.63} _{-0.63}	154.28 ^{+0.14} _{-0.14}	1.74E+38	1.54E+35
146	58724.923083417	563.8 ^{+1.4} _{-1.4}	1.7 ^{+0.2} _{-0.2}	63 ⁺²² ₋₂₂	1406	21.58 ^{+0.26} _{-0.26}	37.42 ^{+0.06} _{-0.06}	4.23E+37	6.59E+34
147	58724.923195708	564.0 ^{+0.1} _{-0.1}	2.3 ^{+0.1} _{-0.1}	267 ⁺¹⁹ ₋₁₉	1236	35.14 ^{+1.74} _{-1.74}	81.52 ^{+0.24} _{-0.24}	8.73E+37	2.61E+35
148	58724.923208229	563.1 ^{+1.6} _{-1.6}	2.6 ^{+0.4} _{-0.4}	113 ⁺²⁹ ₋₂₉	1420	18.98 ^{+0.23} _{-0.23}	49.85 ^{+0.09} _{-0.09}	5.63E+37	1.07E+35
149	58724.923250589	561.0 ^{+1.7} _{-1.7}	2.4 ^{+0.3} _{-0.3}	90 ⁺²⁹ ₋₂₉	1437	20.64 ^{+1.93} _{-1.93}	50.16 ^{+0.52} _{-0.52}	5.37E+37	5.58E+35
150	58724.923250782	564.2 ^{+0.1} _{-0.1}	1.9 ^{+0.0} _{-0.0}	389 ⁺³ ₋₃	1305	31.70 ^{+1.68} _{-1.68}	59.91 ^{+0.07} _{-0.07}	6.41E+37	7.19E+34
151	58724.923250814	564.2 ^{+0.1} _{-0.1}	6.4 ^{+0.4} _{-0.4}	405 ⁺²⁴ ₋₂₄	1297	198.20 ^{+3.24} _{-3.24}	1262.53 ^{+1.20} _{-1.20}	1.35E+39	1.28E+36
152	58724.923308442	563.8 ^{+1.1} _{-1.1}	3.3 ^{+0.6} _{-0.6}	70 ⁺⁵ ₋₅	1411	16.67 ^{+0.20} _{-0.20}	54.69 ^{+0.13} _{-0.13}	6.18E+37	1.44E+35
153	58724.923316525	562.9 ^{+1.1} _{-1.1}	4.1 ^{+0.4} _{-0.4}	68 ⁺⁸ ₋₈	1266	25.68 ^{+0.31} _{-0.31}	106.30 ^{+0.13} _{-0.13}	1.20E+38	1.45E+35
154	58724.923543680	565.4 ^{+0.4} _{-0.4}	3.2 ^{+0.2} _{-0.2}	69 ⁺³⁶ ₋₃₆	1350	35.98 ^{+0.44} _{-0.44}	116.22 ^{+0.10} _{-0.10}	1.31E+38	1.11E+35
155	58724.923683481	563.5 ^{+1.2} _{-1.2}	2.7 ^{+0.5} _{-0.5}	99 ⁺¹² ₋₁₂	1438	13.78 ^{+0.17} _{-0.17}	36.56 ^{+0.09} _{-0.09}	4.13E+37	1.02E+35
156	58724.923971983	563.8 ^{+1.0} _{-1.0}	9.1 ^{+0.8} _{-0.8}	209 ⁺⁵⁸ ₋₅₈	1290	12.11 ^{+0.93} _{-0.93}	110.44 ^{+0.78} _{-0.78}	1.18E+38	8.36E+35
157	58724.924120389	563.1 ^{+1.2} _{-1.2}	2.3 ^{+0.4} _{-0.4}	74 ⁺³³ ₋₃₃	1431	20.36 ^{+0.25} _{-0.25}	46.21 ^{+0.09} _{-0.09}	5.22E+37	1.00E+35
158	58724.924166458	563.8 ^{+1.0} _{-1.0}	3.6 ^{+0.6} _{-0.6}	121 ⁺⁵ ₋₅	1285	15.11 ^{+0.18} _{-0.18}	55.00 ^{+0.11} _{-0.11}	6.21E+37	1.24E+35
159	58724.924166798	563.7 ^{+0.9} _{-0.9}	6.9 ^{+0.9} _{-0.9}	191 ⁺²⁰ ₋₂₀	1227	28.21 ^{+0.34} _{-0.34}	194.20 ^{+0.30} _{-0.30}	2.19E+38	3.39E+35
160	58724.924175064	563.1 ^{+1.1} _{-1.1}	8.6 ^{+2.7} _{-2.7}	244 ⁺¹³⁷ ₋₁₃₇	1207	10.10 ^{+0.12} _{-0.12}	86.48 ^{+0.34} _{-0.34}	9.77E+37	3.82E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
161	58724.924206622	564.5 ^{+1.0} _{-1.0}	3.7 ^{+0.6} _{-0.6}	61 ⁺¹⁰ ₋₁₀	1195	15.50 ^{+0.19} _{-0.19}	56.93 ^{+0.12} _{-0.12}	6.43E+37	1.37E+35
162	58724.924485836	563.0 ^{+0.2} _{-0.2}	7.7 ^{+0.4} _{-0.4}	410 ⁺³³ ₋₃₃	1286	63.58 ^{+0.77} _{-0.77}	492.36 ^{+0.34} _{-0.34}	5.56E+38	3.81E+35
163	58724.924593239	562.8 ^{+0.4} _{-0.4}	3.1 ^{+0.7} _{-0.7}	125 ⁺⁷⁰ ₋₇₀	1330	17.88 ^{+0.22} _{-0.22}	55.17 ^{+0.14} _{-0.14}	6.23E+37	1.62E+35
164	58724.924594036	563.2 ^{+1.3} _{-1.3}	5.0 ^{+0.7} _{-0.7}	62 ⁺⁸ ₋₈	1350	16.28 ^{+0.20} _{-0.20}	81.74 ^{+0.14} _{-0.14}	9.24E+37	1.64E+35
165	58724.924934710	563.3 ^{+1.3} _{-1.3}	4.2 ^{+0.9} _{-0.9}	46 ⁺²⁹ ₋₂₉	1378	12.47 ^{+0.15} _{-0.15}	52.04 ^{+0.13} _{-0.13}	5.88E+37	1.49E+35
166	58724.925146370	564.2 ^{+0.7} _{-0.7}	4.4 ^{+1.7} _{-1.7}	105 ⁺⁷⁶ ₋₇₆	1351	10.26 ^{+0.12} _{-0.12}	44.95 ^{+0.21} _{-0.21}	5.08E+37	2.37E+35
167	58724.925146525	564.4 ^{+0.6} _{-0.6}	6.0 ^{+0.9} _{-0.9}	107 ⁺¹¹⁴ ₋₁₁₄	1345	21.36 ^{+0.26} _{-0.26}	127.80 ^{+0.23} _{-0.23}	1.44E+38	2.56E+35
168	58724.925317278	563.1 ^{+1.4} _{-1.4}	7.0 ^{+1.1} _{-1.1}	116 ⁺³⁰ ₋₃₀	1280	15.74 ^{+0.19} _{-0.19}	110.10 ^{+0.22} _{-0.22}	1.24E+38	2.45E+35
169	58724.925365141	564.0 ^{+0.8} _{-0.8}	4.7 ^{+0.6} _{-0.6}	117 ⁺⁵⁹ ₋₅₉	1185	11.22 ^{+1.21} _{-1.21}	52.51 ^{+0.73} _{-0.73}	5.62E+37	7.77E+35
170	58724.925365688	564.1 ^{+0.4} _{-0.4}	3.3 ^{+0.3} _{-0.3}	143 ⁺³³ ₋₃₃	1233	17.02 ^{+1.43} _{-1.43}	55.83 ^{+0.46} _{-0.46}	5.98E+37	4.90E+35
171	58724.926030934	563.4 ^{+1.2} _{-1.2}	7.0 ^{+1.4} _{-1.4}	50 ⁺²⁸ ₋₂₈	1371	12.89 ^{+0.15} _{-0.15}	90.49 ^{+0.21} _{-0.21}	1.02E+38	2.42E+35
172	58724.926490955	563.4 ^{+1.3} _{-1.3}	3.1 ^{+0.4} _{-0.4}	117 ⁺¹⁶ ₋₁₆	1175	12.33 ^{+0.15} _{-0.15}	37.91 ^{+0.52} _{-0.52}	4.06E+37	5.54E+35
173	58724.926693690	563.5 ^{+0.3} _{-0.3}	2.5 ^{+0.2} _{-0.2}	131 ⁺²⁰ ₋₂₀	1204	31.86 ^{+0.38} _{-0.38}	79.35 ^{+0.06} _{-0.06}	8.97E+37	6.96E+34
174	58724.926740435	563.8 ^{+0.2} _{-0.2}	2.7 ^{+0.2} _{-0.2}	189 ⁺⁵³ ₋₅₃	1138	39.40 ^{+0.47} _{-0.47}	106.15 ^{+0.11} _{-0.11}	1.20E+38	1.29E+35
175	58724.926740933	564.3 ^{+1.2} _{-1.2}	4.6 ^{+0.5} _{-0.5}	173 ⁺³⁴ ₋₃₄	1196	23.28 ^{+0.28} _{-0.28}	106.25 ^{+0.14} _{-0.14}	1.20E+38	1.62E+35
176	58724.927034014	562.3 ^{+0.5} _{-0.5}	8.2 ^{+1.1} _{-1.1}	207 ⁺²¹ ₋₂₁	1365	23.58 ^{+0.28} _{-0.28}	193.99 ^{+0.32} _{-0.32}	2.19E+38	3.60E+35
177	58724.927034141	561.7 ^{+0.5} _{-0.5}	7.1 ^{+1.5} _{-1.5}	89 ⁺³⁹ ₋₃₉	1126	12.72 ^{+0.15} _{-0.15}	90.56 ^{+0.22} _{-0.22}	1.02E+38	2.50E+35
178	58724.927380390	564.6 ^{+0.7} _{-0.7}	2.5 ^{+0.6} _{-0.6}	43 ⁺²⁸ ₋₂₈	1398	17.65 ^{+0.21} _{-0.21}	43.96 ^{+0.12} _{-0.12}	4.97E+37	1.36E+35
179	58724.927549689	562.0 ^{+0.9} _{-0.9}	3.9 ^{+0.7} _{-0.7}	70 ⁺⁷⁵ ₋₇₅	1382	13.16 ^{+0.16} _{-0.16}	50.68 ^{+0.12} _{-0.12}	5.73E+37	1.32E+35
180	58724.927549876	562.2 ^{+0.8} _{-0.8}	3.2 ^{+1.9} _{-1.9}	215 ⁺⁸ ₋₈	1336	5.46 ^{+0.07} _{-0.07}	17.23 ^{+0.13} _{-0.13}	1.95E+37	1.43E+35
181	58724.927879955	563.5 ^{+1.0} _{-1.0}	4.6 ^{+1.1} _{-1.1}	79 ⁺⁴ ₋₄	1410	15.07 ^{+0.18} _{-0.18}	69.92 ^{+0.19} _{-0.19}	7.90E+37	2.13E+35
182	58724.927890919	563.2 ^{+1.3} _{-1.3}	6.4 ^{+1.8} _{-1.8}	86 ⁺⁴ ₋₄	1302	10.62 ^{+0.12} _{-0.12}	68.35 ^{+0.23} _{-0.23}	7.72E+37	2.60E+35
183	58724.927898584	562.2 ^{+0.8} _{-0.8}	8.1 ^{+2.8} _{-2.8}	72 ⁺⁵ ₋₅	1415	11.85 ^{+0.14} _{-0.14}	95.46 ^{+0.40} _{-0.40}	1.08E+38	4.48E+35
184	58724.927898717	562.3 ^{+0.5} _{-0.5}	3.9 ^{+1.2} _{-1.2}	38 ⁺²⁰ ₋₂₀	1309	10.97 ^{+0.13} _{-0.13}	43.00 ^{+0.16} _{-0.16}	4.86E+37	1.81E+35
185	58724.928073955	563.7 ^{+0.4} _{-0.4}	3.7 ^{+0.6} _{-0.6}	106 ⁺¹⁷ ₋₁₇	1404	21.22 ^{+0.25} _{-0.25}	77.57 ^{+0.14} _{-0.14}	8.77E+37	1.57E+35
186	58724.928382898	563.6 ^{+1.2} _{-1.2}	2.5 ^{+1.1} _{-1.1}	166 ⁺¹⁴⁷ ₋₁₄₇	1355	9.29 ^{+0.11} _{-0.11}	23.15 ^{+0.12} _{-0.12}	2.62E+37	1.40E+35
187	58724.928536807	562.5 ^{+0.3} _{-0.3}	1.7 ^{+0.4} _{-0.4}	148 ⁺¹⁴ ₋₁₄	1366	14.91 ^{+0.17} _{-0.17}	25.72 ^{+0.07} _{-0.07}	2.91E+37	7.40E+34
188	58724.928537081	563.1 ^{+1.3} _{-1.3}	5.3 ^{+2.6} _{-2.6}	109 ⁺⁴ ₋₄	1356	6.24 ^{+0.07} _{-0.07}	33.13 ^{+0.19} _{-0.19}	3.74E+37	2.13E+35
189	58724.929124657	563.6 ^{+0.8} _{-0.8}	2.1 ^{+0.2} _{-0.2}	177 ⁺³⁸ ₋₃₈	1156	37.16 ^{+0.43} _{-0.43}	79.28 ^{+0.10} _{-0.10}	8.96E+37	1.17E+35
190	58724.929224292	564.1 ^{+0.7} _{-0.7}	3.5 ^{+0.6} _{-0.6}	114 ⁺¹⁸ ₋₁₈	1429	23.01 ^{+0.27} _{-0.27}	80.40 ^{+0.16} _{-0.16}	9.09E+37	1.83E+35
191	58724.929509232	564.0 ^{+1.2} _{-1.2}	5.1 ^{+0.8} _{-0.8}	215 ⁺²⁶ ₋₂₆	1305	22.08 ^{+0.26} _{-0.26}	112.80 ^{+0.20} _{-0.20}	1.27E+38	2.30E+35
192	58724.929521253	563.7 ^{+1.1} _{-1.1}	2.8 ^{+0.5} _{-0.5}	76 ⁺¹⁰ ₋₁₀	1423	18.07 ^{+0.21} _{-0.21}	49.78 ^{+0.12} _{-0.12}	5.62E+37	1.31E+35
193	58724.930087316	562.2 ^{+1.3} _{-1.3}	3.3 ^{+0.5} _{-0.5}	118 ⁺¹⁴⁰ ₋₁₄₀	1130	5.41 ^{+0.06} _{-0.06}	18.12 ^{+0.24} _{-0.24}	1.94E+37	2.58E+35
194	58724.930228337	563.1 ^{+1.1} _{-1.1}	3.2 ^{+0.6} _{-0.6}	104 ⁺³⁴ ₋₃₄	1415	16.55 ^{+0.19} _{-0.19}	53.60 ^{+0.12} _{-0.12}	6.06E+37	1.39E+35
195	58724.930557570	563.9 ^{+0.8} _{-0.8}	3.6 ^{+0.7} _{-0.7}	157 ⁺⁸ ₋₈	1281	23.25 ^{+0.27} _{-0.27}	84.78 ^{+0.18} _{-0.18}	9.58E+37	2.01E+35
196	58724.930577221	564.4 ^{+0.6} _{-0.6}	5.0 ^{+0.6} _{-0.6}	249 ⁺⁶² ₋₆₂	1366	28.85 ^{+0.33} _{-0.33}	143.23 ^{+0.19} _{-0.19}	1.62E+38	2.14E+35
197	58724.930577350	564.1 ^{+0.4} _{-0.4}	6.3 ^{+1.6} _{-1.6}	188 ⁺⁶⁸ ₋₆₈	1250	10.55 ^{+0.12} _{-0.12}	66.70 ^{+0.19} _{-0.19}	7.53E+37	2.16E+35
198	58724.931079235	563.3 ^{+1.1} _{-1.1}	8.9 ^{+2.0} _{-2.0}	49 ⁺³¹ ₋₃₁	1404	13.45 ^{+0.16} _{-0.16}	120.05 ^{+0.32} _{-0.32}	1.36E+38	3.61E+35
199	58724.931079418	563.0 ^{+1.1} _{-1.1}	6.4 ^{+2.1} _{-2.1}	67 ⁺⁵ ₋₅	1382	7.37 ^{+0.09} _{-0.09}	47.38 ^{+0.18} _{-0.18}	5.35E+37	2.01E+35
200	58724.931624504	563.6 ^{+1.2} _{-1.2}	2.6 ^{+0.4} _{-0.4}	77 ⁺⁹ ₋₉	1383	19.60 ^{+0.23} _{-0.23}	51.80 ^{+0.10} _{-0.10}	5.85E+37	1.11E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
201	58724.931713938	565.2 ^{+0.9} _{-0.9}	4.4 ^{+1.1} _{-1.1}	113 ⁺³¹ ₋₃₁	1389	18.79 ^{+0.22} _{-0.22}	82.55 ^{+0.24} _{-0.24}	9.33E+37	2.69E+35
202	58724.931714166	563.0 ^{+0.9} _{-0.9}	3.0 ^{+2.2} _{-2.2}	46 ⁺⁴ ₋₄	1386	6.69 ^{+0.08} _{-0.08}	20.30 ^{+0.17} _{-0.17}	2.29E+37	1.95E+35
203	58724.931856346	563.0 ^{+0.3} _{-0.3}	5.8 ^{+0.4} _{-0.4}	268 ⁺¹⁶ ₋₁₆	1147	15.98 ^{+0.87} _{-0.87}	91.89 ^{+0.32} _{-0.32}	9.84E+37	3.45E+35
204	58724.932075266	563.5 ^{+0.4} _{-0.4}	8.1 ^{+0.6} _{-0.6}	157 ⁺⁹ ₋₉	1099	12.76 ^{+0.77} _{-0.77}	103.36 ^{+0.45} _{-0.45}	1.11E+38	4.78E+35
205	58724.932075374	564.0 ^{+0.7} _{-0.7}	8.8 ^{+0.9} _{-0.9}	120 ⁺¹⁷ ₋₁₇	1083	37.51 ^{+0.43} _{-0.43}	331.24 ^{+0.37} _{-0.37}	3.74E+38	4.17E+35
206	58724.933137869	563.9 ^{+1.2} _{-1.2}	5.5 ^{+2.1} _{-2.1}	60 ⁺¹⁸ ₋₁₈	1438	7.72 ^{+0.09} _{-0.09}	42.21 ^{+0.18} _{-0.18}	4.77E+37	2.06E+35
207	58724.933137947	564.0 ^{+1.2} _{-1.2}	7.4 ^{+2.5} _{-2.5}	75 ⁺¹⁵ ₋₁₅	1430	9.67 ^{+0.11} _{-0.11}	71.73 ^{+0.27} _{-0.27}	8.11E+37	3.07E+35
208	58724.933208317	564.1 ^{+1.2} _{-1.2}	2.2 ^{+0.4} _{-0.4}	147 ⁺²⁵ ₋₂₅	1352	24.17 ^{+0.27} _{-0.27}	53.00 ^{+0.12} _{-0.12}	5.99E+37	1.36E+35
209	58724.933393009	563.3 ^{+1.3} _{-1.3}	10.5 ^{+3.7} _{-3.7}	70 ⁺³⁰ ₋₃₀	1385	12.08 ^{+0.14} _{-0.14}	126.61 ^{+0.50} _{-0.50}	1.43E+38	5.67E+35
210	58724.933479369	564.8 ^{+0.9} _{-0.9}	2.6 ^{+0.3} _{-0.3}	67 ⁺⁴⁰ ₋₄₀	1394	26.18 ^{+0.30} _{-0.30}	66.99 ^{+0.10} _{-0.10}	7.57E+37	1.11E+35
211	58724.933518494	563.1 ^{+0.7} _{-0.7}	2.9 ^{+0.5} _{-0.5}	114 ⁺⁴ ₋₄	1087	19.40 ^{+0.22} _{-0.22}	55.56 ^{+0.11} _{-0.11}	6.28E+37	1.27E+35
212	58724.933518664	563.6 ^{+0.6} _{-0.6}	3.5 ^{+1.2} _{-1.2}	80 ⁺⁵ ₋₅	1365	11.23 ^{+0.13} _{-0.13}	39.80 ^{+0.15} _{-0.15}	4.50E+37	1.67E+35
213	58724.933830444	565.2 ^{+0.9} _{-0.9}	3.9 ^{+0.6} _{-0.6}	66 ⁺³⁰ ₋₃₀	1290	21.98 ^{+0.25} _{-0.25}	85.40 ^{+0.15} _{-0.15}	9.65E+37	1.68E+35
214	58724.933845447	564.4 ^{+0.5} _{-0.5}	4.2 ^{+0.4} _{-0.4}	100 ⁺⁶⁴ ₋₆₄	1359	21.18 ^{+0.24} _{-0.24}	88.75 ^{+0.10} _{-0.10}	1.00E+38	1.16E+35
215	58724.933850035	563.2 ^{+1.3} _{-1.3}	3.7 ^{+1.1} _{-1.1}	61 ⁺⁸ ₋₈	1323	11.38 ^{+0.13} _{-0.13}	41.88 ^{+0.14} _{-0.14}	4.73E+37	1.61E+35
216	58724.933978885	563.8 ^{+1.2} _{-1.2}	3.0 ^{+0.6} _{-0.6}	144 ⁺⁴⁸ ₋₄₈	1341	18.07 ^{+0.20} _{-0.20}	54.82 ^{+0.13} _{-0.13}	6.19E+37	1.44E+35
217	58724.934015034	565.8 ^{+0.5} _{-0.5}	4.7 ^{+0.4} _{-0.4}	100 ⁺¹⁶ ₋₁₆	1429	15.08 ^{+1.04} _{-1.04}	71.48 ^{+0.41} _{-0.41}	7.65E+37	4.34E+35
218	58724.934083913	563.4 ^{+1.2} _{-1.2}	5.3 ^{+1.1} _{-1.1}	64 ⁺³⁶ ₋₃₆	1402	14.85 ^{+0.17} _{-0.17}	78.91 ^{+0.19} _{-0.19}	8.92E+37	2.16E+35
219	58724.934207622	564.0 ^{+0.1} _{-0.1}	2.0 ^{+0.1} _{-0.1}	290 ⁺¹⁶ ₋₁₆	1259	58.50 ^{+1.44} _{-1.44}	117.59 ^{+0.09} _{-0.09}	1.26E+38	9.25E+34
220	58724.934337412	562.3 ^{+1.0} _{-1.0}	4.8 ^{+0.7} _{-0.7}	224 ⁺¹⁶ ₋₁₆	1372	34.69 ^{+0.39} _{-0.39}	166.01 ^{+0.27} _{-0.27}	1.88E+38	3.00E+35
221	58724.934337962	562.6 ^{+0.3} _{-0.3}	3.8 ^{+0.8} _{-0.8}	101 ⁺²⁴ ₋₂₄	1424	17.57 ^{+0.20} _{-0.20}	66.47 ^{+0.15} _{-0.15}	7.51E+37	1.74E+35
222	58724.934362153	562.8 ^{+1.1} _{-1.1}	5.7 ^{+1.3} _{-1.3}	55 ⁺²⁹ ₋₂₉	1414	13.71 ^{+0.15} _{-0.15}	78.09 ^{+0.21} _{-0.21}	8.82E+37	2.34E+35
223	58724.934400630	564.7 ^{+0.9} _{-0.9}	12.9 ^{+0.8} _{-0.8}	168 ⁺¹⁴ ₋₁₄	1182	12.95 ^{+0.63} _{-0.63}	167.06 ^{+0.48} _{-0.48}	1.79E+38	5.13E+35
224	58724.934567218	564.1 ^{+0.5} _{-0.5}	4.0 ^{+0.7} _{-0.7}	61 ⁺²¹ ₋₂₁	1320	24.19 ^{+0.27} _{-0.27}	96.84 ^{+0.18} _{-0.18}	1.09E+38	2.03E+35
225	58724.935086594	562.4 ^{+1.2} _{-1.2}	8.8 ^{+1.3} _{-1.3}	55 ⁺⁹ ₋₉	1038	2.87 ^{+0.03} _{-0.03}	25.31 ^{+0.32} _{-0.32}	2.71E+37	3.45E+35
226	58724.935205051	562.8 ^{+1.1} _{-1.1}	8.4 ^{+1.6} _{-1.6}	154 ⁺²⁷ ₋₂₇	1173	21.51 ^{+0.24} _{-0.24}	181.39 ^{+0.38} _{-0.38}	2.05E+38	4.31E+35
227	58724.935288662	563.8 ^{+1.3} _{-1.3}	5.6 ^{+0.8} _{-0.8}	193 ⁺⁴² ₋₄₂	1377	19.56 ^{+0.22} _{-0.22}	108.75 ^{+0.18} _{-0.18}	1.23E+38	2.03E+35
228	58724.935580853	563.8 ^{+1.2} _{-1.2}	5.4 ^{+0.7} _{-0.7}	72 ⁺⁵⁷ ₋₅₇	1364	21.10 ^{+0.24} _{-0.24}	113.90 ^{+0.16} _{-0.16}	1.29E+38	1.79E+35
229	58724.935700141	565.6 ^{+0.9} _{-0.9}	5.6 ^{+0.5} _{-0.5}	185 ⁺⁴⁷ ₋₄₇	1369	31.83 ^{+0.36} _{-0.36}	178.05 ^{+0.19} _{-0.19}	2.01E+38	2.10E+35
230	58724.935700354	565.1 ^{+0.8} _{-0.8}	2.4 ^{+0.6} _{-0.6}	169 ⁺⁷ ₋₇	1166	12.12 ^{+0.14} _{-0.14}	29.67 ^{+0.09} _{-0.09}	3.35E+37	9.70E+34
231	58724.935700884	562.6 ^{+1.3} _{-1.3}	6.2 ^{+2.0} _{-2.0}	97 ⁺¹³ ₋₁₃	1301	12.70 ^{+0.14} _{-0.14}	78.29 ^{+0.28} _{-0.28}	8.85E+37	3.21E+35
232	58724.935758410	563.9 ^{+1.1} _{-1.1}	3.4 ^{+0.6} _{-0.6}	152 ⁺³⁹ ₋₃₉	1226	21.43 ^{+0.24} _{-0.24}	71.94 ^{+0.14} _{-0.14}	8.13E+37	1.64E+35
233	58724.935995899	564.1 ^{+1.0} _{-1.0}	6.0 ^{+0.9} _{-0.9}	303 ⁺²⁷ ₋₂₇	1189	21.35 ^{+0.24} _{-0.24}	127.73 ^{+0.23} _{-0.23}	1.44E+38	2.54E+35
234	58724.936788941	563.0 ^{+1.2} _{-1.2}	6.0 ^{+0.6} _{-0.6}	153 ⁺²⁴ ₋₂₄	1348	8.38 ^{+0.73} _{-0.73}	49.94 ^{+0.45} _{-0.45}	5.35E+37	4.84E+35
235	58724.937505803	563.2 ^{+1.2} _{-1.2}	4.8 ^{+0.8} _{-0.8}	77 ⁺⁴ ₋₄	1373	22.02 ^{+0.24} _{-0.24}	106.32 ^{+0.21} _{-0.21}	1.20E+38	2.32E+35
236	58724.937588856	564.0 ^{+0.6} _{-0.6}	3.9 ^{+0.6} _{-0.6}	137 ⁺²¹ ₋₂₁	1401	18.11 ^{+0.20} _{-0.20}	70.20 ^{+0.13} _{-0.13}	7.93E+37	1.45E+35
237	58724.938161764	562.1 ^{+1.1} _{-1.1}	6.8 ^{+1.0} _{-1.0}	82 ⁺²³ ₋₂₃	1058	15.71 ^{+0.17} _{-0.17}	106.67 ^{+1.33} _{-1.33}	1.14E+38	1.42E+36
238	58724.938196434	563.6 ^{+1.1} _{-1.1}	6.1 ^{+0.4} _{-0.4}	235 ⁺¹⁵ ₋₁₅	1381	54.17 ^{+0.59} _{-0.59}	329.67 ^{+0.21} _{-0.21}	3.73E+38	2.37E+35
239	58724.938695827	563.6 ^{+1.1} _{-1.1}	5.4 ^{+1.6} _{-1.6}	51 ⁺²⁸ ₋₂₈	1402	12.43 ^{+0.14} _{-0.14}	66.68 ^{+0.22} _{-0.22}	7.53E+37	2.44E+35
240	58724.938935157	565.0 ^{+0.3} _{-0.3}	3.8 ^{+0.1} _{-0.1}	171 ⁺¹⁷ ₋₁₇	1413	35.39 ^{+1.15} _{-1.15}	132.71 ^{+0.16} _{-0.16}	1.42E+38	1.72E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
241	58724.938935841	563.2 ^{+1.1} _{-1.1}	4.6 ^{+1.3} _{-1.3}	124 ⁺³² ₋₃₂	1387	10.30 ^{+0.11} _{-0.11}	47.80 ^{+0.14} _{-0.14}	5.40E+37	1.62E+35
242	58724.938936085	562.7 ^{+1.3} _{-1.3}	4.6 ^{+2.3} _{-2.3}	88 ⁺⁶ ₋₆	1365	8.48 ^{+0.09} _{-0.09}	39.06 ^{+0.21} _{-0.21}	4.41E+37	2.36E+35
243	58724.938949290	563.5 ^{+1.2} _{-1.2}	5.3 ^{+0.5} _{-0.5}	231 ⁺⁵³ ₋₅₃	1304	20.84 ^{+0.23} _{-0.23}	110.01 ^{+0.11} _{-0.11}	1.24E+38	1.24E+35
244	58724.939160231	563.8 ^{+1.2} _{-1.2}	4.5 ^{+0.7} _{-0.7}	89 ⁺³⁴ ₋₃₄	1386	20.26 ^{+0.22} _{-0.22}	91.97 ^{+0.15} _{-0.15}	1.04E+38	1.69E+35
245	58724.939665652	564.6 ^{+1.0} _{-1.0}	5.1 ^{+0.7} _{-0.7}	124 ⁺²¹ ₋₂₁	1297	21.24 ^{+0.23} _{-0.23}	108.12 ^{+0.16} _{-0.16}	1.22E+38	1.84E+35
246	58724.939970630	565.1 ^{+0.4} _{-0.4}	1.9 ^{+0.2} _{-0.2}	145 ⁺⁴⁵ ₋₄₅	1382	20.00 ^{+1.57} _{-1.57}	38.40 ^{+0.28} _{-0.28}	4.11E+37	3.03E+35
247	58724.939970719	564.8 ^{+0.5} _{-0.5}	4.5 ^{+0.5} _{-0.5}	97 ⁺¹⁰⁵ ₋₁₀₅	1142	31.54 ^{+0.34} _{-0.34}	142.64 ^{+0.18} _{-0.18}	1.61E+38	1.99E+35
248	58724.940058016	563.6 ^{+1.3} _{-1.3}	3.8 ^{+0.7} _{-0.7}	73 ⁺³² ₋₃₂	1160	18.08 ^{+0.19} _{-0.19}	68.84 ^{+0.13} _{-0.13}	7.78E+37	1.46E+35
249	58724.940058605	563.2 ^{+1.0} _{-1.0}	4.3 ^{+1.1} _{-1.1}	80 ⁺²² ₋₂₂	1132	10.59 ^{+0.11} _{-0.11}	45.54 ^{+0.13} _{-0.13}	5.15E+37	1.42E+35
250	58724.940115405	562.7 ^{+1.2} _{-1.2}	3.7 ^{+1.2} _{-1.2}	196 ⁺⁷² ₋₇₂	1231	8.64 ^{+0.09} _{-0.09}	32.32 ^{+0.11} _{-0.11}	3.65E+37	1.21E+35
251	58724.940115869	563.8 ^{+1.0} _{-1.0}	4.6 ^{+0.9} _{-0.9}	72 ⁺¹³ ₋₁₃	1418	15.81 ^{+0.17} _{-0.17}	72.42 ^{+0.15} _{-0.15}	8.18E+37	1.69E+35
252	58724.940137842	563.6 ^{+1.4} _{-1.4}	7.8 ^{+0.7} _{-0.7}	178 ⁺²⁹ ₋₂₉	1276	10.75 ^{+0.79} _{-0.79}	83.64 ^{+0.55} _{-0.55}	8.95E+37	5.84E+35
253	58724.940958789	564.0 ^{+0.5} _{-0.5}	2.7 ^{+0.2} _{-0.2}	97 ⁺⁴⁶ ₋₄₆	1299	26.89 ^{+0.29} _{-0.29}	72.69 ^{+0.07} _{-0.07}	8.21E+37	7.65E+34
254	58724.940958860	563.9 ^{+0.5} _{-0.5}	3.0 ^{+0.5} _{-0.5}	56 ⁺²⁸ ₋₂₈	1426	14.46 ^{+0.15} _{-0.15}	42.77 ^{+0.08} _{-0.08}	4.83E+37	9.04E+34
255	58724.941257593	564.5 ^{+0.6} _{-0.6}	2.1 ^{+0.3} _{-0.3}	66 ⁺⁴¹ ₋₄₁	1417	24.83 ^{+0.27} _{-0.27}	52.77 ^{+0.08} _{-0.08}	5.96E+37	9.19E+34
256	58724.942043680	563.6 ^{+1.2} _{-1.2}	3.6 ^{+0.4} _{-0.4}	212 ⁺¹³ ₋₁₃	1274	34.18 ^{+0.36} _{-0.36}	122.89 ^{+0.15} _{-0.15}	1.39E+38	1.64E+35
257	58724.942177274	564.4 ^{+1.1} _{-1.1}	5.5 ^{+1.2} _{-1.2}	52 ⁺¹³ ₋₁₃	1137	13.95 ^{+0.15} _{-0.15}	77.06 ^{+0.18} _{-0.18}	8.71E+37	2.08E+35
258	58724.942204136	565.3 ^{+0.7} _{-0.7}	4.0 ^{+0.3} _{-0.3}	148 ⁺¹³ ₋₁₃	1410	32.30 ^{+0.34} _{-0.34}	127.94 ^{+0.10} _{-0.10}	1.45E+38	1.12E+35
259	58724.942626670	564.0 ^{+1.1} _{-1.1}	4.2 ^{+0.4} _{-0.4}	127 ⁺²³ ₋₂₃	1426	23.30 ^{+0.25} _{-0.25}	97.42 ^{+0.10} _{-0.10}	1.10E+38	1.09E+35
260	58724.942643193	563.1 ^{+1.2} _{-1.2}	3.4 ^{+1.1} _{-1.1}	49 ⁺²⁶ ₋₂₆	1427	12.41 ^{+0.13} _{-0.13}	42.51 ^{+0.15} _{-0.15}	4.80E+37	1.66E+35
261	58724.943177262	562.8 ^{+1.0} _{-1.0}	3.8 ^{+1.0} _{-1.0}	63 ⁺¹⁵ ₋₁₅	1423	14.48 ^{+0.15} _{-0.15}	54.65 ^{+0.16} _{-0.16}	6.18E+37	1.77E+35
262	58724.943276791	563.6 ^{+0.2} _{-0.2}	2.7 ^{+0.2} _{-0.2}	161 ⁺⁵⁹ ₋₅₉	1258	37.96 ^{+0.40} _{-0.40}	103.89 ^{+0.08} _{-0.08}	1.17E+38	8.66E+34
263	58724.943330517	563.7 ^{+1.2} _{-1.2}	7.2 ^{+1.0} _{-1.0}	59 ⁺⁶ ₋₆	1038	14.68 ^{+0.15} _{-0.15}	106.22 ^{+1.27} _{-1.27}	1.14E+38	1.36E+36
264	58724.943339997	563.9 ^{+0.3} _{-0.3}	3.7 ^{+0.3} _{-0.3}	165 ⁺¹⁷ ₋₁₇	1153	27.02 ^{+0.28} _{-0.28}	100.13 ^{+0.10} _{-0.10}	1.13E+38	1.10E+35
265	58724.943448337	565.0 ^{+1.1} _{-1.1}	5.4 ^{+0.5} _{-0.5}	152 ⁺⁴⁴ ₋₄₄	1326	13.15 ^{+1.01} _{-1.01}	71.14 ^{+0.49} _{-0.49}	7.62E+37	5.30E+35
266	58724.944090410	563.7 ^{+1.0} _{-1.0}	5.1 ^{+1.0} _{-1.0}	47 ⁺⁵ ₋₅	1350	11.32 ^{+0.12} _{-0.12}	57.93 ^{+0.12} _{-0.12}	6.55E+37	1.40E+35
267	58724.944399848	563.1 ^{+0.4} _{-0.4}	3.8 ^{+0.7} _{-0.7}	83 ⁺¹⁸ ₋₁₈	1354	16.84 ^{+0.17} _{-0.17}	63.26 ^{+0.12} _{-0.12}	7.15E+37	1.38E+35
268	58724.944455333	562.0 ^{+0.9} _{-0.9}	4.9 ^{+0.7} _{-0.7}	135 ⁺³¹ ₋₃₁	1410	17.80 ^{+0.19} _{-0.19}	86.86 ^{+0.13} _{-0.13}	9.81E+37	1.49E+35
269	58724.944704992	563.2 ^{+1.3} _{-1.3}	6.5 ^{+1.2} _{-1.2}	55 ⁺⁴⁵ ₋₄₅	1401	19.19 ^{+0.20} _{-0.20}	124.96 ^{+0.24} _{-0.24}	1.41E+38	2.74E+35
270	58724.944852813	563.1 ^{+1.2} _{-1.2}	4.3 ^{+0.8} _{-0.8}	98 ⁺¹⁰⁶ ₋₁₀₆	1420	18.72 ^{+0.20} _{-0.20}	80.35 ^{+0.16} _{-0.16}	9.08E+37	1.79E+35
271	58724.944943815	563.1 ^{+1.2} _{-1.2}	7.5 ^{+0.4} _{-0.4}	236 ⁺⁹ ₋₉	1369	21.23 ^{+0.87} _{-0.87}	158.38 ^{+0.31} _{-0.31}	1.70E+38	3.35E+35
272	58724.945180161	563.2 ^{+1.2} _{-1.2}	4.2 ^{+0.7} _{-0.7}	95 ⁺⁴² ₋₄₂	1271	17.86 ^{+0.19} _{-0.19}	75.90 ^{+0.13} _{-0.13}	8.58E+37	1.45E+35
273	58724.945180888	565.0 ^{+0.8} _{-0.8}	6.4 ^{+0.7} _{-0.7}	242 ⁺⁷⁸ ₋₇₈	1142	10.28 ^{+0.90} _{-0.90}	65.69 ^{+0.59} _{-0.59}	7.03E+37	6.36E+35
274	58724.945299966	562.8 ^{+1.1} _{-1.1}	3.3 ^{+0.8} _{-0.8}	58 ⁺²⁰ ₋₂₀	1346	9.47 ^{+0.10} _{-0.10}	31.14 ^{+0.08} _{-0.08}	3.52E+37	9.11E+34
275	58724.946279559	564.2 ^{+1.0} _{-1.0}	4.0 ^{+1.2} _{-1.2}	69 ⁺³¹ ₋₃₁	1419	12.98 ^{+0.13} _{-0.13}	52.51 ^{+0.16} _{-0.16}	5.93E+37	1.85E+35
276	58724.946696913	563.0 ^{+1.1} _{-1.1}	4.4 ^{+0.5} _{-0.5}	249 ⁺⁹¹ ₋₉₁	1253	22.12 ^{+0.23} _{-0.23}	97.60 ^{+0.12} _{-0.12}	1.10E+38	1.35E+35
277	58724.946697323	565.1 ^{+0.4} _{-0.4}	2.9 ^{+0.5} _{-0.5}	116 ⁺²³ ₋₂₃	1331	23.48 ^{+0.24} _{-0.24}	68.27 ^{+0.11} _{-0.11}	7.71E+37	1.27E+35
278	58724.946720924	563.4 ^{+1.3} _{-1.3}	3.9 ^{+0.8} _{-0.8}	73 ⁺¹¹ ₋₁₁	1271	13.21 ^{+0.14} _{-0.14}	51.86 ^{+0.11} _{-0.11}	5.86E+37	1.19E+35
279	58724.946721268	561.4 ^{+0.8} _{-0.8}	7.5 ^{+2.1} _{-2.1}	94 ⁺¹⁹ ₋₁₉	1081	12.70 ^{+0.13} _{-0.13}	95.63 ^{+0.27} _{-0.27}	1.08E+38	3.05E+35
280	58724.946837449	565.7 ^{+0.4} _{-0.4}	3.5 ^{+0.3} _{-0.3}	231 ⁺⁸³ ₋₈₃	1356	39.00 ^{+0.40} _{-0.40}	138.23 ^{+0.11} _{-0.11}	1.56E+38	1.21E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
281	58724.946927083	563.1 ^{+1.2} _{-1.2}	4.1 ^{+0.6} _{-0.6}	73 ⁺⁴⁵ ₋₄₅	1086	14.00 ^{+0.14} _{-0.14}	57.72 ^{+0.67} _{-0.67}	6.18E+37	7.22E+35
282	58724.947124611	564.6 ^{+0.7} _{-0.7}	2.7 ^{+0.3} _{-0.3}	61 ⁺²¹ ₋₂₁	1407	27.71 ^{+0.28} _{-0.28}	74.90 ^{+0.08} _{-0.08}	8.46E+37	8.83E+34
283	58724.947124752	564.0 ^{+1.1} _{-1.1}	3.5 ^{+0.7} _{-0.7}	74 ⁺⁵ ₋₅	1329	12.00 ^{+0.12} _{-0.12}	41.88 ^{+0.09} _{-0.09}	4.73E+37	1.02E+35
284	58724.948133465	562.9 ^{+0.9} _{-0.9}	2.0 ^{+0.3} _{-0.3}	116 ⁺³¹ ₋₃₁	1396	21.23 ^{+0.21} _{-0.21}	41.86 ^{+0.06} _{-0.06}	4.73E+37	7.18E+34
285	58724.948634911	564.2 ^{+1.1} _{-1.1}	6.7 ^{+0.9} _{-0.9}	152 ⁺²² ₋₂₂	1414	29.17 ^{+0.29} _{-0.29}	194.86 ^{+0.26} _{-0.26}	2.20E+38	2.91E+35
286	58724.948802347	563.8 ^{+1.2} _{-1.2}	4.6 ^{+0.7} _{-0.7}	64 ⁺¹⁵ ₋₁₅	1258	7.73 ^{+0.08} _{-0.08}	35.60 ^{+0.41} _{-0.41}	3.81E+37	4.35E+35
287	58724.948915577	563.1 ^{+1.2} _{-1.2}	5.0 ^{+1.2} _{-1.2}	78 ⁺¹⁸ ₋₁₈	1415	12.60 ^{+0.13} _{-0.13}	63.31 ^{+0.15} _{-0.15}	7.15E+37	1.73E+35
288	58724.949357022	562.7 ^{+1.2} _{-1.2}	4.0 ^{+0.8} _{-0.8}	101 ⁺⁵⁰ ₋₅₀	1305	17.36 ^{+0.17} _{-0.17}	68.63 ^{+0.15} _{-0.15}	7.75E+37	1.66E+35
289	58724.949793879	563.9 ^{+1.3} _{-1.3}	4.7 ^{+0.6} _{-0.6}	120 ⁺²² ₋₂₂	1348	23.00 ^{+0.23} _{-0.23}	107.34 ^{+0.13} _{-0.13}	1.21E+38	1.48E+35
290	58724.949817625	563.5 ^{+1.3} _{-1.3}	6.3 ^{+1.5} _{-1.5}	74 ⁺²⁶ ₋₂₆	1439	15.55 ^{+0.16} _{-0.16}	97.55 ^{+0.23} _{-0.23}	1.10E+38	2.61E+35
291	58724.949817871	563.6 ^{+1.2} _{-1.2}	4.9 ^{+2.2} _{-2.2}	88 ⁺¹⁹ ₋₁₉	1203	9.42 ^{+0.10} _{-0.10}	45.81 ^{+0.21} _{-0.21}	5.18E+37	2.32E+35
292	58724.949818001	564.2 ^{+0.8} _{-0.8}	4.8 ^{+2.3} _{-2.3}	245 ⁺⁴ ₋₄	1227	8.35 ^{+0.08} _{-0.08}	39.67 ^{+0.19} _{-0.19}	4.48E+37	2.14E+35
293	58724.950039130	564.1 ^{+0.6} _{-0.6}	3.0 ^{+0.3} _{-0.3}	300 ⁺³⁷ ₋₃₇	1264	31.39 ^{+0.31} _{-0.31}	94.44 ^{+0.09} _{-0.09}	1.07E+38	9.80E+34
294	58724.950233281	564.6 ^{+0.7} _{-0.7}	4.3 ^{+0.6} _{-0.6}	100 ⁺⁶³ ₋₆₃	1413	22.35 ^{+0.22} _{-0.22}	95.95 ^{+0.14} _{-0.14}	1.08E+38	1.60E+35
295	58724.950329724	563.7 ^{+1.4} _{-1.4}	4.5 ^{+0.6} _{-0.6}	136 ⁺²⁶ ₋₂₆	1238	22.82 ^{+0.23} _{-0.23}	103.58 ^{+0.14} _{-0.14}	1.17E+38	1.54E+35
296	58724.950374328	563.7 ^{+0.8} _{-0.8}	3.1 ^{+0.2} _{-0.2}	198 ⁺²⁰ ₋₂₀	1298	22.26 ^{+1.32} _{-1.32}	69.01 ^{+0.29} _{-0.29}	7.39E+37	3.11E+35
297	58724.950507151	564.3 ^{+0.3} _{-0.3}	2.7 ^{+0.4} _{-0.4}	93 ⁺¹⁴ ₋₁₄	1436	25.02 ^{+0.25} _{-0.25}	68.05 ^{+0.09} _{-0.09}	7.69E+37	1.07E+35
298	58724.950581748	563.7 ^{+1.2} _{-1.2}	5.4 ^{+1.1} _{-1.1}	47 ⁺¹⁰ ₋₁₀	1342	14.32 ^{+0.14} _{-0.14}	77.29 ^{+0.15} _{-0.15}	8.73E+37	1.74E+35
299	58724.950978164	563.3 ^{+1.4} _{-1.4}	5.8 ^{+0.9} _{-0.9}	136 ⁺²⁰ ₋₂₀	1320	20.00 ^{+0.20} _{-0.20}	115.96 ^{+0.18} _{-0.18}	1.31E+38	2.01E+35
300	58724.951062014	563.5 ^{+1.3} _{-1.3}	4.2 ^{+0.7} _{-0.7}	49 ⁺⁴⁰ ₋₄₀	1368	15.78 ^{+0.16} _{-0.16}	65.85 ^{+0.11} _{-0.11}	7.44E+37	1.27E+35
301	58724.951224668	562.7 ^{+1.4} _{-1.4}	5.1 ^{+0.9} _{-0.9}	67 ⁺³⁰ ₋₃₀	1158	12.55 ^{+0.12} _{-0.12}	63.71 ^{+0.11} _{-0.11}	7.20E+37	1.22E+35
302	58724.951225241	563.6 ^{+1.2} _{-1.2}	5.1 ^{+0.9} _{-0.9}	332 ⁺⁹⁵ ₋₉₅	1241	14.40 ^{+0.14} _{-0.14}	73.90 ^{+0.13} _{-0.13}	8.35E+37	1.44E+35
303	58724.951271136	562.8 ^{+1.2} _{-1.2}	1.9 ^{+0.5} _{-0.5}	104 ⁺³⁷ ₋₃₇	1413	12.55 ^{+0.12} _{-0.12}	24.00 ^{+0.06} _{-0.06}	2.71E+37	6.60E+34
304	58724.951331015	563.0 ^{+1.3} _{-1.3}	4.8 ^{+0.6} _{-0.6}	98 ⁺¹⁰ ₋₁₀	1056	25.82 ^{+0.26} _{-0.26}	123.55 ^{+0.16} _{-0.16}	1.40E+38	1.81E+35
305	58724.952142244	563.5 ^{+1.2} _{-1.2}	4.3 ^{+0.5} _{-0.5}	112 ⁺¹² ₋₁₂	1200	29.27 ^{+0.28} _{-0.28}	126.40 ^{+0.14} _{-0.14}	1.43E+38	1.63E+35
306	58724.952147855	563.6 ^{+1.2} _{-1.2}	3.8 ^{+0.7} _{-0.7}	90 ⁺³⁰ ₋₃₀	1385	16.79 ^{+0.16} _{-0.16}	63.77 ^{+0.11} _{-0.11}	7.21E+37	1.28E+35
307	58724.952186452	563.0 ^{+1.2} _{-1.2}	2.9 ^{+0.8} _{-0.8}	98 ⁺⁵ ₋₅	1394	13.12 ^{+0.13} _{-0.13}	37.91 ^{+0.10} _{-0.10}	4.28E+37	1.15E+35
308	58724.952218767	563.1 ^{+1.2} _{-1.2}	6.8 ^{+1.0} _{-1.0}	228 ⁺¹¹⁷ ₋₁₁₇	1266	20.41 ^{+0.20} _{-0.20}	139.11 ^{+0.21} _{-0.21}	1.57E+38	2.35E+35
309	58724.952219369	564.2 ^{+1.0} _{-1.0}	6.8 ^{+0.7} _{-0.7}	259 ⁺²² ₋₂₂	1331	31.08 ^{+0.30} _{-0.30}	211.85 ^{+0.22} _{-0.22}	2.39E+38	2.52E+35
310	58724.953532548	564.7 ^{+0.6} _{-0.6}	3.5 ^{+0.4} _{-0.4}	79 ⁺⁶ ₋₆	1052	34.88 ^{+0.34} _{-0.34}	123.06 ^{+0.14} _{-0.14}	1.39E+38	1.55E+35
311	58724.953573407	563.6 ^{+1.3} _{-1.3}	3.6 ^{+0.7} _{-0.7}	65 ⁺⁷⁰ ₋₇₀	1321	12.33 ^{+0.12} _{-0.12}	44.55 ^{+0.09} _{-0.09}	5.03E+37	9.90E+34
312	58724.953718446	563.2 ^{+1.3} _{-1.3}	4.1 ^{+0.6} _{-0.6}	119 ⁺⁷ ₋₇	1282	20.94 ^{+0.20} _{-0.20}	85.96 ^{+0.13} _{-0.13}	9.71E+37	1.42E+35
313	58724.953796434	562.8 ^{+0.1} _{-0.1}	1.5 ^{+0.2} _{-0.2}	192 ⁺¹² ₋₁₂	1113	24.48 ^{+1.97} _{-1.97}	36.72 ^{+0.30} _{-0.30}	3.93E+37	3.16E+35
314	58724.953796473	562.8 ^{+0.1} _{-0.1}	3.8 ^{+0.3} _{-0.3}	208 ⁺¹⁰ ₋₁₀	1116	27.18 ^{+1.20} _{-1.20}	103.28 ^{+0.31} _{-0.31}	1.11E+38	3.34E+35
315	58724.953877224	563.4 ^{+1.3} _{-1.3}	5.9 ^{+0.4} _{-0.4}	247 ⁺³⁶ ₋₃₆	1275	14.47 ^{+0.93} _{-0.93}	84.79 ^{+0.42} _{-0.42}	9.08E+37	4.48E+35
316	58724.954226482	563.7 ^{+0.9} _{-0.9}	3.6 ^{+0.5} _{-0.5}	125 ⁺³⁴ ₋₃₄	1356	29.42 ^{+0.28} _{-0.28}	106.03 ^{+0.13} _{-0.13}	1.20E+38	1.50E+35
317	58724.954295887	564.4 ^{+0.2} _{-0.2}	2.5 ^{+0.2} _{-0.2}	372 ⁺⁴¹ ₋₄₁	1193	22.33 ^{+1.44} _{-1.44}	55.60 ^{+0.27} _{-0.27}	5.95E+37	2.93E+35
318	58724.954867693	563.3 ^{+0.6} _{-0.6}	2.3 ^{+0.2} _{-0.2}	68 ⁺¹¹ ₋₁₁	1421	15.93 ^{+1.49} _{-1.49}	36.16 ^{+0.37} _{-0.37}	3.87E+37	3.99E+35
319	58724.954872498	563.7 ^{+1.2} _{-1.2}	3.2 ^{+0.6} _{-0.6}	87 ⁺⁵⁸ ₋₅₈	1426	22.48 ^{+0.21} _{-0.21}	71.28 ^{+0.12} _{-0.12}	8.05E+37	1.35E+35
320	58724.954874271	563.0 ^{+1.3} _{-1.3}	6.8 ^{+1.7} _{-1.7}	81 ⁺²⁶ ₋₂₆	1411	14.02 ^{+0.13} _{-0.13}	94.99 ^{+0.23} _{-0.23}	1.07E+38	2.63E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
321	58724.954931016	563.1 ^{+1.1} _{-1.1}	9.2 ^{+1.6} _{-1.6}	92 ⁺⁵³ ₋₅₃	1399	20.37 ^{+0.20} _{-0.20}	187.53 ^{+0.32} _{-0.32}	2.12E+38	3.59E+35
322	58724.955100839	562.8 ^{+1.4} _{-1.4}	5.6 ^{+0.9} _{-0.9}	154 ⁺²⁰ ₋₂₀	1400	20.92 ^{+0.20} _{-0.20}	116.14 ^{+0.17} _{-0.17}	1.31E+38	1.97E+35
323	58724.955156951	562.9 ^{+1.1} _{-1.1}	3.9 ^{+1.0} _{-1.0}	78 ⁺³⁵ ₋₃₅	1312	14.30 ^{+0.14} _{-0.14}	55.66 ^{+0.14} _{-0.14}	6.29E+37	1.57E+35
324	58724.955586862	564.8 ^{+0.9} _{-0.9}	3.3 ^{+0.3} _{-0.3}	78 ⁺³² ₋₃₂	1374	28.50 ^{+0.27} _{-0.27}	93.03 ^{+0.08} _{-0.08}	1.05E+38	9.19E+34
325	58724.955611349	563.3 ^{+1.3} _{-1.3}	5.9 ^{+1.3} _{-1.3}	109 ⁺⁵⁸ ₋₅₈	1208	15.46 ^{+0.15} _{-0.15}	90.92 ^{+0.19} _{-0.19}	1.03E+38	2.12E+35
326	58724.955611845	562.3 ^{+0.9} _{-0.9}	4.2 ^{+0.4} _{-0.4}	221 ⁺¹⁰⁹ ₋₁₀₉	1220	33.22 ^{+0.32} _{-0.32}	138.63 ^{+0.13} _{-0.13}	1.57E+38	1.47E+35
327	58724.955640212	563.4 ^{+1.2} _{-1.2}	5.4 ^{+1.6} _{-1.6}	66 ⁺¹⁷ ₋₁₇	1423	12.06 ^{+0.12} _{-0.12}	64.66 ^{+0.18} _{-0.18}	7.31E+37	2.04E+35
328	58724.955659913	563.4 ^{+1.3} _{-1.3}	5.4 ^{+0.7} _{-0.7}	240 ⁺²⁶ ₋₂₆	1362	20.85 ^{+0.20} _{-0.20}	112.90 ^{+0.14} _{-0.14}	1.28E+38	1.61E+35
329	58724.955910729	562.7 ^{+1.3} _{-1.3}	3.1 ^{+0.5} _{-0.5}	113 ⁺²² ₋₂₂	1359	16.56 ^{+0.16} _{-0.16}	51.09 ^{+0.07} _{-0.07}	5.77E+37	8.34E+34
330	58724.955910995	562.4 ^{+1.4} _{-1.4}	4.4 ^{+1.2} _{-1.2}	397 ⁺¹¹³ ₋₁₁₃	1244	7.49 ^{+0.07} _{-0.07}	32.87 ^{+0.09} _{-0.09}	3.71E+37	9.85E+34
331	58724.955925989	564.1 ^{+0.9} _{-0.9}	4.1 ^{+1.0} _{-1.0}	109 ⁺⁹⁸ ₋₉₈	1422	11.00 ^{+0.10} _{-0.10}	44.71 ^{+0.11} _{-0.11}	5.05E+37	1.22E+35
332	58724.955926123	562.9 ^{+1.3} _{-1.3}	3.9 ^{+0.8} _{-0.8}	131 ⁺¹¹⁰ ₋₁₁₀	1354	15.52 ^{+0.15} _{-0.15}	60.02 ^{+0.11} _{-0.11}	6.78E+37	1.29E+35
333	58724.956089032	564.9 ^{+0.5} _{-0.5}	2.5 ^{+0.1} _{-0.1}	332 ⁺³² ₋₃₂	1333	50.33 ^{+1.36} _{-1.36}	125.32 ^{+0.11} _{-0.11}	1.34E+38	1.16E+35
334	58724.956138405	562.6 ^{+1.1} _{-1.1}	5.0 ^{+0.9} _{-0.9}	84 ⁺⁴⁶ ₋₄₆	1373	18.34 ^{+0.17} _{-0.17}	91.81 ^{+0.16} _{-0.16}	1.04E+38	1.83E+35
335	58724.956219961	564.6 ^{+0.4} _{-0.4}	2.4 ^{+0.2} _{-0.2}	149 ⁺¹² ₋₁₂	1420	47.95 ^{+0.45} _{-0.45}	113.70 ^{+0.08} _{-0.08}	1.28E+38	9.08E+34
336	58724.956296780	563.1 ^{+1.2} _{-1.2}	4.7 ^{+0.8} _{-0.8}	71 ⁺¹⁹ ₋₁₉	1419	18.31 ^{+0.17} _{-0.17}	86.08 ^{+0.14} _{-0.14}	9.73E+37	1.56E+35
337	58724.956328529	562.5 ^{+1.1} _{-1.1}	1.7 ^{+0.2} _{-0.2}	49 ⁺¹³ ₋₁₃	1356	29.72 ^{+0.28} _{-0.28}	51.53 ^{+0.06} _{-0.06}	5.82E+37	6.69E+34
338	58724.956536237	562.6 ^{+0.2} _{-0.2}	3.1 ^{+0.2} _{-0.2}	407 ⁺³² ₋₃₂	1257	48.48 ^{+0.46} _{-0.46}	150.40 ^{+0.11} _{-0.11}	1.70E+38	1.22E+35
339	58724.956697560	565.3 ^{+0.4} _{-0.4}	2.7 ^{+0.1} _{-0.1}	139 ⁺⁴⁰ ₋₄₀	1408	49.24 ^{+0.46} _{-0.46}	132.69 ^{+0.06} _{-0.06}	1.50E+38	7.22E+34
340	58724.956697656	565.2 ^{+0.4} _{-0.4}	4.4 ^{+1.2} _{-1.2}	109 ⁺⁶ ₋₆	1387	11.07 ^{+0.10} _{-0.10}	48.26 ^{+0.13} _{-0.13}	5.45E+37	1.43E+35
341	58724.956857383	564.9 ^{+0.6} _{-0.6}	3.7 ^{+1.2} _{-1.2}	86 ⁺⁵ ₋₅	1408	14.52 ^{+0.14} _{-0.14}	54.07 ^{+0.16} _{-0.16}	6.11E+37	1.79E+35
342	58724.956857518	564.6 ^{+0.9} _{-0.9}	3.8 ^{+1.0} _{-1.0}	53 ⁺¹⁴ ₋₁₄	1444	18.59 ^{+0.17} _{-0.17}	70.95 ^{+0.18} _{-0.18}	8.02E+37	2.03E+35
343	58724.957099790	563.1 ^{+1.1} _{-1.1}	4.6 ^{+0.4} _{-0.4}	153 ⁺¹⁶ ₋₁₆	1401	14.13 ^{+1.02} _{-1.02}	65.00 ^{+0.40} _{-0.40}	6.96E+37	4.26E+35
344	58724.957211633	563.5 ^{+1.2} _{-1.2}	5.5 ^{+0.8} _{-0.8}	85 ⁺⁴¹ ₋₄₁	1345	21.61 ^{+0.20} _{-0.20}	119.39 ^{+0.17} _{-0.17}	1.35E+38	1.90E+35
345	58724.957324445	563.2 ^{+1.4} _{-1.4}	3.7 ^{+0.9} _{-0.9}	47 ⁺⁶ ₋₆	1384	11.29 ^{+0.10} _{-0.10}	42.14 ^{+0.10} _{-0.10}	4.76E+37	1.12E+35
346	58724.957373051	562.9 ^{+1.1} _{-1.1}	3.4 ^{+0.3} _{-0.3}	205 ⁺⁶⁹ ₋₆₉	1271	33.44 ^{+0.31} _{-0.31}	114.55 ^{+0.10} _{-0.10}	1.29E+38	1.14E+35
347	58724.957396294	563.5 ^{+1.5} _{-1.5}	7.2 ^{+1.4} _{-1.4}	106 ⁺⁸⁴ ₋₈₄	1384	11.64 ^{+0.11} _{-0.11}	83.33 ^{+0.16} _{-0.16}	9.42E+37	1.75E+35
348	58724.957554536	563.9 ^{+0.5} _{-0.5}	2.1 ^{+0.2} _{-0.2}	144 ⁺¹⁵ ₋₁₅	1212	25.57 ^{+1.48} _{-1.48}	54.46 ^{+0.22} _{-0.22}	5.83E+37	2.38E+35
349	58724.958088987	564.4 ^{+1.0} _{-1.0}	4.6 ^{+0.8} _{-0.8}	48 ⁺¹⁸ ₋₁₈	1414	14.90 ^{+0.14} _{-0.14}	68.53 ^{+0.11} _{-0.11}	7.74E+37	1.19E+35
350	58724.958340460	564.0 ^{+0.9} _{-0.9}	2.9 ^{+0.4} _{-0.4}	157 ⁺¹²⁰ ₋₁₂₀	1160	27.51 ^{+0.26} _{-0.26}	80.67 ^{+0.09} _{-0.09}	9.12E+37	1.03E+35
351	58724.958340733	562.7 ^{+1.1} _{-1.1}	3.5 ^{+1.0} _{-1.0}	65 ⁺¹¹ ₋₁₁	1107	13.86 ^{+0.13} _{-0.13}	48.76 ^{+0.12} _{-0.12}	5.51E+37	1.39E+35
352	58724.958479368	562.9 ^{+1.1} _{-1.1}	3.0 ^{+0.7} _{-0.7}	71 ⁺³¹ ₋₃₁	1427	16.79 ^{+0.16} _{-0.16}	50.94 ^{+0.11} _{-0.11}	5.76E+37	1.19E+35
353	58724.958885944	564.9 ^{+0.7} _{-0.7}	3.5 ^{+0.2} _{-0.2}	156 ⁺²⁴ ₋₂₄	1275	32.52 ^{+0.30} _{-0.30}	113.61 ^{+0.05} _{-0.05}	1.28E+38	6.17E+34
354	58724.958887581	563.6 ^{+1.3} _{-1.3}	2.8 ^{+0.5} _{-0.5}	57 ⁺²⁰ ₋₂₀	1442	22.05 ^{+0.20} _{-0.20}	62.41 ^{+0.10} _{-0.10}	7.05E+37	1.17E+35
355	58724.958887771	563.2 ^{+1.3} _{-1.3}	3.6 ^{+0.6} _{-0.6}	82 ⁺⁵ ₋₅	1383	14.84 ^{+0.14} _{-0.14}	53.49 ^{+0.08} _{-0.08}	6.04E+37	9.57E+34
356	58724.958961105	563.0 ^{+1.2} _{-1.2}	5.5 ^{+1.1} _{-1.1}	80 ⁺⁴² ₋₄₂	1358	13.00 ^{+0.12} _{-0.12}	71.96 ^{+0.13} _{-0.13}	8.13E+37	1.43E+35
357	58724.959118477	562.4 ^{+1.2} _{-1.2}	4.2 ^{+1.0} _{-1.0}	86 ⁺²⁴ ₋₂₄	1289	21.09 ^{+0.19} _{-0.19}	89.27 ^{+0.19} _{-0.19}	1.01E+38	2.11E+35
358	58724.959306476	562.6 ^{+1.1} _{-1.1}	4.5 ^{+0.5} _{-0.5}	171 ⁺¹³ ₋₁₃	1364	21.68 ^{+0.20} _{-0.20}	98.24 ^{+0.11} _{-0.11}	1.11E+38	1.19E+35
359	58724.959587725	563.0 ^{+1.0} _{-1.0}	4.4 ^{+0.7} _{-0.7}	62 ⁺¹⁶ ₋₁₆	1376	18.31 ^{+0.17} _{-0.17}	79.98 ^{+0.12} _{-0.12}	9.04E+37	1.39E+35
360	58724.959597009	564.5 ^{+0.8} _{-0.8}	5.1 ^{+0.7} _{-0.7}	111 ⁺¹² ₋₁₂	1427	24.90 ^{+0.23} _{-0.23}	127.84 ^{+0.17} _{-0.17}	1.44E+38	1.91E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
361	58724.959667709	563.5 ^{+1.4} _{-1.4}	5.6 ^{+1.5} _{-1.5}	60 ⁺¹³ ₋₁₃	1436	13.14 ^{+0.12} _{-0.12}	73.36 ^{+0.19} _{-0.19}	8.29E+37	2.09E+35
362	58724.960646956	563.2 ^{+0.3} _{-0.3}	3.0 ^{+0.3} _{-0.3}	183 ⁺¹⁷ ₋₁₇	1109	33.84 ^{+0.31} _{-0.31}	101.54 ^{+0.09} _{-0.09}	1.15E+38	1.04E+35
363	58724.960797653	564.2 ^{+0.6} _{-0.6}	2.2 ^{+0.3} _{-0.3}	59 ⁺¹⁹ ₋₁₉	1258	26.37 ^{+0.24} _{-0.24}	58.27 ^{+0.07} _{-0.07}	6.58E+37	8.00E+34
364	58724.960798114	562.6 ^{+1.2} _{-1.2}	3.8 ^{+1.1} _{-1.1}	142 ⁺¹² ₋₁₂	1140	10.43 ^{+0.10} _{-0.10}	39.75 ^{+0.10} _{-0.10}	4.49E+37	1.13E+35
365	58724.961029452	564.6 ^{+0.9} _{-0.9}	3.6 ^{+0.6} _{-0.6}	83 ⁺¹⁹ ₋₁₉	1437	21.44 ^{+0.20} _{-0.20}	76.73 ^{+0.12} _{-0.12}	8.67E+37	1.37E+35
366	58724.961095139	565.1 ^{+0.4} _{-0.4}	2.9 ^{+0.2} _{-0.2}	73 ⁺³² ₋₃₂	1257	36.18 ^{+0.33} _{-0.33}	103.34 ^{+0.08} _{-0.08}	1.17E+38	8.79E+34
367	58724.961284900	564.3 ^{+0.6} _{-0.6}	1.6 ^{+0.1} _{-0.1}	85 ⁺²⁸ ₋₂₈	1402	33.70 ^{+0.30} _{-0.30}	53.28 ^{+0.05} _{-0.05}	6.02E+37	5.14E+34
368	58724.961407509	562.8 ^{+1.2} _{-1.2}	4.7 ^{+0.8} _{-0.8}	56 ⁺³¹ ₋₃₁	1415	13.99 ^{+0.13} _{-0.13}	66.25 ^{+0.10} _{-0.10}	7.49E+37	1.18E+35
369	58724.961440898	564.0 ^{+0.9} _{-0.9}	4.3 ^{+0.6} _{-0.6}	91 ⁺¹⁴ ₋₁₄	1230	17.94 ^{+0.16} _{-0.16}	77.94 ^{+0.10} _{-0.10}	8.81E+37	1.17E+35
370	58724.961598847	564.1 ^{+0.8} _{-0.8}	3.4 ^{+0.6} _{-0.6}	75 ⁺³³ ₋₃₃	1392	9.46 ^{+1.17} _{-1.17}	32.54 ^{+0.70} _{-0.70}	3.48E+37	7.51E+35
371	58724.961598926	563.8 ^{+0.5} _{-0.5}	4.3 ^{+0.6} _{-0.6}	178 ⁺⁴ ₋₄	1409	26.90 ^{+1.91} _{-1.91}	114.59 ^{+1.22} _{-1.22}	1.23E+38	1.31E+36
372	58724.961598972	563.8 ^{+0.5} _{-0.5}	3.8 ^{+0.4} _{-0.4}	211 ⁺⁶ ₋₆	1393	28.36 ^{+2.96} _{-2.96}	106.35 ^{+1.30} _{-1.30}	1.14E+38	1.39E+36
373	58724.961795810	563.9 ^{+1.2} _{-1.2}	2.4 ^{+0.7} _{-0.7}	47 ⁺⁴ ₋₄	1404	10.65 ^{+0.10} _{-0.10}	25.43 ^{+0.07} _{-0.07}	2.87E+37	7.85E+34
374	58724.962163787	563.0 ^{+1.3} _{-1.3}	4.9 ^{+0.9} _{-0.9}	97 ⁺³⁴ ₋₃₄	1130	17.69 ^{+0.16} _{-0.16}	86.78 ^{+0.14} _{-0.14}	9.81E+37	1.62E+35
375	58724.962617272	563.3 ^{+1.1} _{-1.1}	2.4 ^{+0.6} _{-0.6}	47 ⁺³ ₋₃	1414	14.30 ^{+0.13} _{-0.13}	34.51 ^{+0.07} _{-0.07}	3.90E+37	8.24E+34
376	58724.962667049	562.3 ^{+0.4} _{-0.4}	4.4 ^{+1.3} _{-1.3}	195 ⁺⁴⁹ ₋₄₉	1368	10.81 ^{+0.10} _{-0.10}	47.31 ^{+0.12} _{-0.12}	5.35E+37	1.37E+35
377	58724.963111705	563.5 ^{+1.2} _{-1.2}	3.7 ^{+0.7} _{-0.7}	51 ⁺²⁵ ₋₂₅	1356	16.76 ^{+0.15} _{-0.15}	62.24 ^{+0.11} _{-0.11}	7.03E+37	1.20E+35
378	58724.963376588	564.1 ^{+0.8} _{-0.8}	4.9 ^{+0.8} _{-0.8}	107 ⁺⁴⁰ ₋₄₀	1420	17.74 ^{+0.16} _{-0.16}	86.12 ^{+0.13} _{-0.13}	9.73E+37	1.50E+35
379	58724.963458108	564.1 ^{+1.1} _{-1.1}	3.8 ^{+0.4} _{-0.4}	252 ⁺⁵⁸ ₋₅₈	1186	30.91 ^{+0.27} _{-0.27}	118.74 ^{+0.10} _{-0.10}	1.34E+38	1.11E+35
380	58724.963583260	565.0 ^{+0.8} _{-0.8}	2.8 ^{+0.4} _{-0.4}	59 ⁺²⁰ ₋₂₀	1429	23.50 ^{+0.21} _{-0.21}	66.92 ^{+0.09} _{-0.09}	7.56E+37	9.66E+34
381	58724.963583500	564.6 ^{+0.8} _{-0.8}	3.3 ^{+1.1} _{-1.1}	53 ⁺¹⁵ ₋₁₅	1280	10.23 ^{+0.09} _{-0.09}	33.31 ^{+0.10} _{-0.10}	3.76E+37	1.13E+35
382	58724.963593439	563.2 ^{+1.1} _{-1.1}	5.6 ^{+0.8} _{-0.8}	77 ⁺⁴⁰ ₋₄₀	1078	16.30 ^{+0.14} _{-0.14}	91.78 ^{+0.93} _{-0.93}	9.82E+37	9.93E+35
383	58724.963594481	563.1 ^{+1.2} _{-1.2}	8.5 ^{+2.7} _{-2.7}	122 ⁺³⁸ ₋₃₈	1147	9.75 ^{+0.09} _{-0.09}	83.13 ^{+0.24} _{-0.24}	9.39E+37	2.66E+35
384	58724.963835668	564.6 ^{+0.8} _{-0.8}	2.9 ^{+0.3} _{-0.3}	86 ⁺⁵³ ₋₅₃	1111	24.89 ^{+0.22} _{-0.22}	72.16 ^{+0.07} _{-0.07}	8.15E+37	8.23E+34
385	58724.964223189	563.5 ^{+1.1} _{-1.1}	5.4 ^{+0.8} _{-0.8}	115 ⁺⁵⁵ ₋₅₅	1345	18.09 ^{+0.16} _{-0.16}	98.57 ^{+0.13} _{-0.13}	1.11E+38	1.43E+35
386	58724.964224299	563.4 ^{+1.2} _{-1.2}	3.0 ^{+0.2} _{-0.2}	193 ⁺¹⁷ ₋₁₇	1381	51.99 ^{+0.46} _{-0.46}	155.56 ^{+0.10} _{-0.10}	1.76E+38	1.12E+35
387	58724.964245632	564.5 ^{+0.5} _{-0.5}	4.3 ^{+0.4} _{-0.4}	212 ⁺³² ₋₃₂	1275	39.74 ^{+0.35} _{-0.35}	172.61 ^{+0.13} _{-0.13}	1.95E+38	1.48E+35
388	58724.964247098	563.1 ^{+1.4} _{-1.4}	9.9 ^{+2.8} _{-2.8}	88 ⁺³¹ ₋₃₁	1160	14.50 ^{+0.13} _{-0.13}	143.69 ^{+0.35} _{-0.35}	1.62E+38	3.96E+35
389	58724.964300738	563.1 ^{+1.2} _{-1.2}	3.9 ^{+0.5} _{-0.5}	134 ⁺⁵⁴ ₋₅₄	1260	23.16 ^{+0.20} _{-0.20}	90.75 ^{+0.11} _{-0.11}	1.03E+38	1.20E+35
390	58724.964302142	561.6 ^{+0.7} _{-0.7}	2.4 ^{+0.8} _{-0.8}	74 ⁺¹² ₋₁₂	1058	13.62 ^{+0.12} _{-0.12}	33.21 ^{+0.09} _{-0.09}	3.75E+37	1.05E+35
391	58724.964413758	564.7 ^{+1.0} _{-1.0}	5.4 ^{+1.0} _{-1.0}	100 ⁺²³ ₋₂₃	1408	17.72 ^{+0.16} _{-0.16}	96.25 ^{+0.15} _{-0.15}	1.09E+38	1.68E+35
392	58724.964413977	564.8 ^{+0.5} _{-0.5}	1.8 ^{+0.5} _{-0.5}	108 ⁺³⁸ ₋₃₈	1396	13.54 ^{+0.12} _{-0.12}	24.39 ^{+0.06} _{-0.06}	2.76E+37	6.84E+34
393	58724.964496758	563.3 ^{+1.3} _{-1.3}	3.4 ^{+0.8} _{-0.8}	61 ⁺²⁵ ₋₂₅	1451	15.92 ^{+0.14} _{-0.14}	54.79 ^{+0.11} _{-0.11}	6.19E+37	1.24E+35
394	58724.964867141	563.7 ^{+0.7} _{-0.7}	2.8 ^{+0.3} _{-0.3}	69 ⁺¹⁸ ₋₁₈	1138	28.46 ^{+0.25} _{-0.25}	79.11 ^{+0.08} _{-0.08}	8.94E+37	9.04E+34
395	58724.965035941	564.1 ^{+1.1} _{-1.1}	3.8 ^{+0.5} _{-0.5}	143 ⁺³¹ ₋₃₁	1363	28.01 ^{+0.25} _{-0.25}	105.25 ^{+0.12} _{-0.12}	1.19E+38	1.38E+35
396	58724.965086591	565.1 ^{+0.8} _{-0.8}	4.4 ^{+0.8} _{-0.8}	141 ⁺⁵ ₋₅	1364	14.00 ^{+0.12} _{-0.12}	61.18 ^{+0.10} _{-0.10}	6.91E+37	1.13E+35
397	58724.965086804	564.1 ^{+1.2} _{-1.2}	5.0 ^{+1.2} _{-1.2}	53 ⁺⁵⁶ ₋₅₆	1391	14.61 ^{+0.13} _{-0.13}	73.01 ^{+0.15} _{-0.15}	8.25E+37	1.67E+35
398	58724.965738733	561.5 ^{+0.9} _{-0.9}	2.2 ^{+0.4} _{-0.4}	52 ⁺²⁵ ₋₂₅	1429	18.39 ^{+0.16} _{-0.16}	39.55 ^{+0.07} _{-0.07}	4.47E+37	7.44E+34
399	58724.965833997	564.3 ^{+0.9} _{-0.9}	7.3 ^{+0.9} _{-0.9}	261 ⁺²¹ ₋₂₁	1356	29.24 ^{+0.25} _{-0.25}	213.47 ^{+0.22} _{-0.22}	2.41E+38	2.47E+35
400	58724.965834813	564.0 ^{+0.9} _{-0.9}	4.1 ^{+1.5} _{-1.5}	79 ⁺²⁷ ₋₂₇	1435	12.99 ^{+0.11} _{-0.11}	53.44 ^{+0.17} _{-0.17}	6.04E+37	1.90E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
401	58724.965835083	562.3 ^{+0.4} _{-0.4}	6.6 ^{+1.9} _{-1.9}	254 ⁺⁷⁶ ₋₇₆	1216	19.74 ^{+0.17} _{-0.17}	129.68 ^{+0.33} _{-0.33}	1.47E+38	3.68E+35
402	58724.965836146	563.2 ^{+1.3} _{-1.3}	8.0 ^{+1.0} _{-1.0}	198 ⁺¹⁴ ₋₁₄	1110	23.89 ^{+0.21} _{-0.21}	190.47 ^{+0.21} _{-0.21}	2.15E+38	2.32E+35
403	58724.965948232	563.1 ^{+1.3} _{-1.3}	4.2 ^{+1.0} _{-1.0}	96 ⁺⁴³ ₋₄₃	1405	15.99 ^{+0.14} _{-0.14}	67.83 ^{+0.14} _{-0.14}	7.66E+37	1.62E+35
404	58724.966368386	563.0 ^{+0.2} _{-0.2}	3.3 ^{+0.3} _{-0.3}	142 ⁺¹² ₋₁₂	1403	37.51 ^{+0.33} _{-0.33}	124.33 ^{+0.09} _{-0.09}	1.40E+38	1.01E+35
405	58724.966368633	563.0 ^{+1.8} _{-1.8}	7.1 ^{+2.4} _{-2.4}	94 ⁺²⁷ ₋₂₇	1388	13.87 ^{+0.12} _{-0.12}	98.56 ^{+0.29} _{-0.29}	1.11E+38	3.28E+35
406	58724.966404625	562.6 ^{+1.3} _{-1.3}	2.6 ^{+0.4} _{-0.4}	76 ⁺³⁶ ₋₃₆	1090	21.43 ^{+0.19} _{-0.19}	55.19 ^{+0.07} _{-0.07}	6.24E+37	7.42E+34
407	58724.966500026	563.4 ^{+1.3} _{-1.3}	3.7 ^{+0.7} _{-0.7}	61 ⁺²¹ ₋₂₁	1382	18.46 ^{+0.16} _{-0.16}	69.04 ^{+0.11} _{-0.11}	7.80E+37	1.21E+35
408	58724.966815198	563.2 ^{+1.3} _{-1.3}	4.8 ^{+1.1} _{-1.1}	74 ⁺⁴⁵ ₋₄₅	1316	14.17 ^{+0.12} _{-0.12}	67.93 ^{+0.13} _{-0.13}	7.68E+37	1.51E+35
409	58724.966854093	562.0 ^{+1.4} _{-1.4}	4.0 ^{+0.4} _{-0.4}	122 ⁺²⁹ ₋₂₉	1197	26.32 ^{+0.23} _{-0.23}	104.72 ^{+0.08} _{-0.08}	1.18E+38	9.34E+34
410	58724.966854386	563.1 ^{+1.2} _{-1.2}	5.0 ^{+0.5} _{-0.5}	142 ⁺¹⁹ ₋₁₉	1377	30.53 ^{+0.26} _{-0.26}	152.08 ^{+0.14} _{-0.14}	1.72E+38	1.53E+35
411	58724.967029339	562.4 ^{+0.4} _{-0.4}	3.4 ^{+0.7} _{-0.7}	56 ⁺²⁴ ₋₂₄	1450	17.91 ^{+0.15} _{-0.15}	61.20 ^{+0.10} _{-0.10}	6.92E+37	1.14E+35
412	58724.967232595	563.5 ^{+0.9} _{-0.9}	5.2 ^{+1.7} _{-1.7}	63 ⁺³⁷ ₋₃₇	1389	10.16 ^{+0.09} _{-0.09}	52.86 ^{+0.15} _{-0.15}	5.97E+37	1.66E+35
413	58724.967300417	563.5 ^{+0.9} _{-0.9}	1.7 ^{+0.4} _{-0.4}	109 ⁺⁶ ₋₆	1108	17.25 ^{+0.15} _{-0.15}	29.91 ^{+0.06} _{-0.06}	3.38E+37	6.89E+34
414	58724.967300685	562.3 ^{+0.3} _{-0.3}	6.0 ^{+0.9} _{-0.9}	84 ⁺¹⁶ ₋₁₆	1432	18.52 ^{+0.16} _{-0.16}	111.93 ^{+0.15} _{-0.15}	1.26E+38	1.69E+35
415	58724.967318040	563.5 ^{+1.1} _{-1.1}	2.3 ^{+0.4} _{-0.4}	69 ⁺⁵³ ₋₅₃	1335	19.26 ^{+0.17} _{-0.17}	44.37 ^{+0.07} _{-0.07}	5.01E+37	7.75E+34
416	58724.967416317	563.6 ^{+1.1} _{-1.1}	4.0 ^{+0.9} _{-0.9}	59 ⁺²⁵ ₋₂₅	1423	18.49 ^{+0.16} _{-0.16}	74.17 ^{+0.15} _{-0.15}	8.38E+37	1.66E+35
417	58724.967416589	562.8 ^{+1.2} _{-1.2}	5.8 ^{+1.2} _{-1.2}	106 ⁺⁸² ₋₈₂	1353	19.13 ^{+0.16} _{-0.16}	111.52 ^{+0.20} _{-0.20}	1.26E+38	2.24E+35
418	58724.967854280	565.2 ^{+0.8} _{-0.8}	3.1 ^{+0.4} _{-0.4}	80 ⁺³⁰ ₋₃₀	1391	18.72 ^{+0.16} _{-0.16}	58.08 ^{+0.07} _{-0.07}	6.56E+37	7.97E+34
419	58724.968205096	562.9 ^{+1.1} _{-1.1}	5.7 ^{+1.6} _{-1.6}	133 ⁺³⁵ ₋₃₅	1409	14.65 ^{+0.12} _{-0.12}	83.83 ^{+0.19} _{-0.19}	9.47E+37	2.20E+35
420	58724.968262092	563.6 ^{+1.2} _{-1.2}	5.4 ^{+1.2} _{-1.2}	166 ⁺²⁷ ₋₂₇	1278	16.61 ^{+0.14} _{-0.14}	89.22 ^{+0.17} _{-0.17}	1.01E+38	1.89E+35
421	58724.968668981	563.5 ^{+1.2} _{-1.2}	7.8 ^{+2.1} _{-2.1}	325 ⁺¹² ₋₁₂	1248	12.31 ^{+0.10} _{-0.10}	95.55 ^{+0.22} _{-0.22}	1.08E+38	2.49E+35
422	58724.968750178	562.8 ^{+1.4} _{-1.4}	8.3 ^{+1.9} _{-1.9}	111 ⁺⁴⁶ ₋₄₆	1290	16.16 ^{+0.14} _{-0.14}	134.76 ^{+0.27} _{-0.27}	1.52E+38	3.01E+35
423	58724.968806631	563.3 ^{+1.1} _{-1.1}	7.8 ^{+1.2} _{-1.2}	242 ⁺³⁴ ₋₃₄	1329	20.89 ^{+0.18} _{-0.18}	163.74 ^{+0.22} _{-0.22}	1.85E+38	2.50E+35
424	58724.968924894	565.2 ^{+0.4} _{-0.4}	2.7 ^{+0.2} _{-0.2}	148 ⁺²² ₋₂₂	1388	40.34 ^{+0.34} _{-0.34}	107.67 ^{+0.08} _{-0.08}	1.22E+38	8.53E+34
425	58724.968954038	563.8 ^{+1.1} _{-1.1}	3.8 ^{+0.4} _{-0.4}	152 ⁺²³ ₋₂₃	1206	25.34 ^{+0.22} _{-0.22}	95.84 ^{+0.08} _{-0.08}	1.08E+38	8.81E+34
426	58724.969027169	563.0 ^{+1.3} _{-1.3}	4.1 ^{+1.1} _{-1.1}	82 ⁺³⁴ ₋₃₄	1401	13.37 ^{+0.11} _{-0.11}	54.65 ^{+0.12} _{-0.12}	6.18E+37	1.41E+35
427	58724.969126327	564.8 ^{+0.5} _{-0.5}	4.1 ^{+0.4} _{-0.4}	327 ⁺⁹⁹ ₋₉₉	1172	31.64 ^{+0.27} _{-0.27}	131.25 ^{+0.11} _{-0.11}	1.48E+38	1.26E+35
428	58724.969193728	562.8 ^{+1.2} _{-1.2}	5.2 ^{+1.2} _{-1.2}	22 ⁺³ ₋₃	1421	12.21 ^{+0.10} _{-0.10}	63.98 ^{+0.12} _{-0.12}	7.23E+37	1.40E+35
429	58724.969193983	562.8 ^{+1.1} _{-1.1}	3.1 ^{+1.7} _{-1.7}	107 ⁺¹⁰⁰ ₋₁₀₀	1393	8.75 ^{+0.07} _{-0.07}	27.14 ^{+0.12} _{-0.12}	3.07E+37	1.39E+35
430	58724.969194276	563.1 ^{+1.1} _{-1.1}	7.0 ^{+2.6} _{-2.6}	110 ⁺³⁸ ₋₃₈	1287	16.55 ^{+0.14} _{-0.14}	115.62 ^{+0.37} _{-0.37}	1.31E+38	4.17E+35
431	58724.969194478	565.0 ^{+0.4} _{-0.4}	9.9 ^{+1.9} _{-1.9}	218 ⁺³⁵ ₋₃₅	1242	14.78 ^{+0.12} _{-0.12}	146.72 ^{+0.24} _{-0.24}	1.66E+38	2.73E+35
432	58724.969254567	563.1 ^{+1.2} _{-1.2}	3.3 ^{+0.6} _{-0.6}	70 ⁺¹⁵ ₋₁₅	1412	8.82 ^{+0.07} _{-0.07}	29.55 ^{+0.05} _{-0.05}	3.34E+37	5.17E+34
433	58724.969959235	563.2 ^{+1.3} _{-1.3}	3.2 ^{+0.5} _{-0.5}	57 ⁺¹⁷ ₋₁₇	1075	9.32 ^{+0.08} _{-0.08}	29.94 ^{+0.29} _{-0.29}	3.20E+37	3.07E+35
434	58724.970158281	562.6 ^{+1.3} _{-1.3}	3.8 ^{+0.9} _{-0.9}	76 ⁺¹⁹ ₋₁₉	1338	14.17 ^{+0.12} _{-0.12}	53.72 ^{+0.11} _{-0.11}	6.07E+37	1.27E+35
435	58724.971191578	562.1 ^{+1.2} _{-1.2}	9.0 ^{+2.4} _{-2.4}	91 ⁺⁶ ₋₆	1359	13.46 ^{+0.11} _{-0.11}	121.60 ^{+0.27} _{-0.27}	1.37E+38	3.09E+35
436	58724.971191878	562.7 ^{+0.7} _{-0.7}	4.9 ^{+1.6} _{-1.6}	57 ⁺⁹ ₋₉	1185	10.46 ^{+0.09} _{-0.09}	51.74 ^{+0.14} _{-0.14}	5.85E+37	1.61E+35
437	58724.971356551	563.9 ^{+1.2} _{-1.2}	4.7 ^{+0.9} _{-0.9}	128 ⁺⁴⁸ ₋₄₈	1309	18.57 ^{+0.15} _{-0.15}	86.81 ^{+0.14} _{-0.14}	9.81E+37	1.60E+35
438	58724.971395426	564.3 ^{+0.4} _{-0.4}	2.0 ^{+0.1} _{-0.1}	225 ⁺⁹ ₋₉	1363	53.91 ^{+0.45} _{-0.45}	109.98 ^{+0.06} _{-0.06}	1.24E+38	6.75E+34
439	58724.971591886	563.2 ^{+1.2} _{-1.2}	9.8 ^{+1.0} _{-1.0}	261 ⁺³² ₋₃₂	1366	7.51 ^{+0.67} _{-0.67}	73.82 ^{+0.70} _{-0.70}	7.90E+37	7.46E+35
440	58724.971629715	563.2 ^{+1.3} _{-1.3}	1.8 ^{+0.4} _{-0.4}	46 ⁺²⁰ ₋₂₀	1428	14.20 ^{+0.12} _{-0.12}	24.98 ^{+0.04} _{-0.04}	2.82E+37	5.07E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
441	58724.971656863	564.0 ^{+1.2} _{-1.2}	6.7 ^{+0.5} _{-0.5}	178 ⁺¹³ ₋₁₃	1129	11.87 ^{+0.77} _{-0.77}	79.17 ^{+0.39} _{-0.39}	8.48E+37	4.20E+35
442	58724.971896512	563.9 ^{+0.1} _{-0.1}	2.8 ^{+0.2} _{-0.2}	300 ⁺⁴⁰ ₋₄₀	1203	56.31 ^{+0.47} _{-0.47}	159.38 ^{+0.07} _{-0.07}	1.80E+38	8.30E+34
443	58724.972168341	563.1 ^{+1.3} _{-1.3}	6.7 ^{+1.3} _{-1.3}	100 ⁺⁴⁷ ₋₄₇	1296	15.65 ^{+0.13} _{-0.13}	105.33 ^{+0.17} _{-0.17}	1.19E+38	1.94E+35
444	58724.972168432	563.9 ^{+0.9} _{-0.9}	8.1 ^{+1.7} _{-1.7}	312 ⁺⁴⁵ ₋₄₅	1243	14.61 ^{+0.12} _{-0.12}	118.56 ^{+0.21} _{-0.21}	1.34E+38	2.33E+35
445	58724.972168543	562.8 ^{+1.4} _{-1.4}	4.2 ^{+0.7} _{-0.7}	219 ⁺⁵ ₋₅	1253	11.07 ^{+0.09} _{-0.09}	46.49 ^{+0.06} _{-0.06}	5.25E+37	6.69E+34
446	58724.972169051	563.4 ^{+1.4} _{-1.4}	3.4 ^{+0.3} _{-0.3}	104 ⁺⁵³ ₋₅₃	1170	22.71 ^{+0.19} _{-0.19}	76.78 ^{+0.06} _{-0.06}	8.68E+37	7.10E+34
447	58724.972276652	562.2 ^{+1.1} _{-1.1}	3.8 ^{+0.7} _{-0.7}	133 ⁺³⁸ ₋₃₈	1415	18.79 ^{+0.15} _{-0.15}	72.02 ^{+0.11} _{-0.11}	8.14E+37	1.22E+35
448	58724.972563133	563.5 ^{+1.2} _{-1.2}	6.5 ^{+0.6} _{-0.6}	183 ⁺²⁰ ₋₂₀	1186	10.61 ^{+0.79} _{-0.79}	68.86 ^{+0.45} _{-0.45}	7.37E+37	4.82E+35
449	58724.972736945	565.3 ^{+0.4} _{-0.4}	3.0 ^{+0.2} _{-0.2}	124 ⁺¹⁷ ₋₁₇	1429	23.82 ^{+1.12} _{-1.12}	71.94 ^{+0.19} _{-0.19}	7.70E+37	2.04E+35
450	58724.973007250	563.4 ^{+1.3} _{-1.3}	3.2 ^{+0.6} _{-0.6}	86 ⁺⁷⁶ ₋₇₆	1180	18.07 ^{+0.15} _{-0.15}	57.30 ^{+0.09} _{-0.09}	6.47E+37	1.01E+35
451	58724.973331685	563.2 ^{+1.1} _{-1.1}	4.5 ^{+1.1} _{-1.1}	88 ⁺⁸ ₋₈	1201	16.06 ^{+0.13} _{-0.13}	72.50 ^{+0.14} _{-0.14}	8.19E+37	1.63E+35
452	58724.973332495	565.3 ^{+0.4} _{-0.4}	3.4 ^{+0.2} _{-0.2}	124 ⁺¹⁷ ₋₁₇	1429	60.22 ^{+0.49} _{-0.49}	207.75 ^{+0.08} _{-0.08}	2.35E+38	9.15E+34
453	58724.973354762	563.2 ^{+1.2} _{-1.2}	3.7 ^{+0.5} _{-0.5}	111 ⁺³⁹ ₋₃₉	1298	26.69 ^{+0.22} _{-0.22}	98.02 ^{+0.10} _{-0.10}	1.11E+38	1.13E+35
454	58724.973907287	563.4 ^{+1.2} _{-1.2}	5.0 ^{+1.0} _{-1.0}	135 ⁺²⁶ ₋₂₆	1417	22.86 ^{+0.19} _{-0.19}	113.85 ^{+0.19} _{-0.19}	1.29E+38	2.12E+35
455	58724.974104614	565.2 ^{+0.6} _{-0.6}	5.4 ^{+0.9} _{-0.9}	158 ⁺²³ ₋₂₃	1248	27.60 ^{+0.23} _{-0.23}	150.17 ^{+0.20} _{-0.20}	1.70E+38	2.22E+35
456	58724.974105403	564.1 ^{+0.2} _{-0.2}	3.0 ^{+0.1} _{-0.1}	210 ⁺¹⁴ ₋₁₄	1394	38.96 ^{+1.19} _{-1.19}	115.71 ^{+0.13} _{-0.13}	1.24E+38	1.40E+35
457	58724.974229372	563.6 ^{+1.1} _{-1.1}	3.0 ^{+0.6} _{-0.6}	71 ⁺⁴⁷ ₋₄₇	1408	16.24 ^{+0.13} _{-0.13}	48.18 ^{+0.08} _{-0.08}	5.44E+37	9.47E+34
458	58724.974229473	563.0 ^{+1.1} _{-1.1}	4.2 ^{+1.6} _{-1.6}	75 ⁺¹⁰ ₋₁₀	1193	12.26 ^{+0.10} _{-0.10}	50.94 ^{+0.16} _{-0.16}	5.76E+37	1.79E+35
459	58724.974229711	563.5 ^{+1.2} _{-1.2}	4.0 ^{+0.8} _{-0.8}	80 ⁺⁹⁷ ₋₉₇	1367	14.18 ^{+0.12} _{-0.12}	57.14 ^{+0.09} _{-0.09}	6.46E+37	1.04E+35
460	58724.974235856	563.8 ^{+1.0} _{-1.0}	3.5 ^{+0.5} _{-0.5}	77 ⁺⁶⁶ ₋₆₆	1141	8.34 ^{+0.07} _{-0.07}	28.81 ^{+0.27} _{-0.27}	3.08E+37	2.88E+35
461	58724.974256993	566.2 ^{+0.6} _{-0.6}	3.1 ^{+0.4} _{-0.4}	305 ⁺¹¹ ₋₁₁	1331	13.98 ^{+2.05} _{-2.05}	43.34 ^{+0.86} _{-0.86}	4.64E+37	9.22E+35
462	58724.974371609	563.2 ^{+1.3} _{-1.3}	6.0 ^{+0.6} _{-0.6}	119 ⁺⁴³ ₋₄₃	1425	9.94 ^{+0.81} _{-0.81}	59.74 ^{+0.45} _{-0.45}	6.39E+37	4.86E+35
463	58724.974620871	562.4 ^{+1.1} _{-1.1}	3.2 ^{+0.7} _{-0.7}	133 ⁺⁴ ₋₄	1227	15.09 ^{+0.12} _{-0.12}	48.22 ^{+0.08} _{-0.08}	5.45E+37	8.97E+34
464	58724.974861206	562.6 ^{+1.1} _{-1.1}	4.1 ^{+0.8} _{-0.8}	58 ⁺⁹ ₋₉	1345	15.92 ^{+0.13} _{-0.13}	64.82 ^{+0.11} _{-0.11}	7.32E+37	1.19E+35
465	58724.974975779	563.5 ^{+1.3} _{-1.3}	2.7 ^{+0.6} _{-0.6}	121 ⁺²¹ ₋₂₁	1419	6.92 ^{+1.30} _{-1.30}	18.75 ^{+0.83} _{-0.83}	2.01E+37	8.91E+35
466	58724.975066721	563.6 ^{+0.7} _{-0.7}	3.3 ^{+0.8} _{-0.8}	69 ⁺¹⁷ ₋₁₇	1412	11.83 ^{+0.10} _{-0.10}	39.13 ^{+0.07} _{-0.07}	4.42E+37	8.23E+34
467	58724.975066882	564.8 ^{+0.4} _{-0.4}	2.0 ^{+0.2} _{-0.2}	160 ⁺¹¹ ₋₁₁	1415	41.14 ^{+0.33} _{-0.33}	82.53 ^{+0.06} _{-0.06}	9.33E+37	6.64E+34
468	58724.975089964	564.6 ^{+0.9} _{-0.9}	2.6 ^{+0.4} _{-0.4}	91 ⁺²⁶ ₋₂₆	1435	21.84 ^{+0.18} _{-0.18}	56.45 ^{+0.08} _{-0.08}	6.38E+37	8.80E+34
469	58724.975090214	563.6 ^{+1.0} _{-1.0}	5.4 ^{+0.8} _{-0.8}	121 ⁺⁵³ ₋₅₃	1224	15.67 ^{+0.13} _{-0.13}	84.06 ^{+0.11} _{-0.11}	9.50E+37	1.20E+35
470	58724.975158974	563.9 ^{+1.0} _{-1.0}	4.1 ^{+0.8} _{-0.8}	92 ⁺²⁰ ₋₂₀	1115	18.35 ^{+0.15} _{-0.15}	74.41 ^{+0.11} _{-0.11}	8.41E+37	1.28E+35
471	58724.975174876	563.3 ^{+0.5} _{-0.5}	7.1 ^{+2.7} _{-2.7}	77 ⁺⁴² ₋₄₂	1414	11.36 ^{+0.09} _{-0.09}	80.35 ^{+0.25} _{-0.25}	9.08E+37	2.81E+35
472	58724.975563831	564.3 ^{+0.7} _{-0.7}	4.9 ^{+0.3} _{-0.3}	149 ⁺²⁴ ₋₂₄	1411	16.43 ^{+0.95} _{-0.95}	79.85 ^{+0.30} _{-0.30}	8.55E+37	3.25E+35
473	58724.976161343	562.6 ^{+1.2} _{-1.2}	6.5 ^{+1.6} _{-1.6}	55 ⁺²³ ₋₂₃	1366	11.07 ^{+0.09} _{-0.09}	71.99 ^{+0.14} _{-0.14}	8.13E+37	1.57E+35
474	58724.976162065	562.7 ^{+1.4} _{-1.4}	13.0 ^{+3.8} _{-3.8}	87 ⁺⁵⁴ ₋₅₄	1348	13.74 ^{+0.11} _{-0.11}	178.36 ^{+0.42} _{-0.42}	2.02E+38	4.74E+35
475	58724.976274895	563.3 ^{+0.6} _{-0.6}	3.4 ^{+0.2} _{-0.2}	220 ⁺³⁶ ₋₃₆	1337	17.49 ^{+0.98} _{-0.98}	59.82 ^{+0.22} _{-0.22}	6.40E+37	2.31E+35
476	58724.976314642	564.0 ^{+0.8} _{-0.8}	4.9 ^{+1.4} _{-1.4}	54 ⁺²² ₋₂₂	1400	14.23 ^{+0.11} _{-0.11}	70.41 ^{+0.16} _{-0.16}	7.96E+37	1.82E+35
477	58724.976318834	563.0 ^{+1.2} _{-1.2}	2.3 ^{+1.9} _{-1.9}	54 ⁺¹⁹ ₋₁₉	1426	5.76 ^{+0.05} _{-0.05}	13.03 ^{+0.09} _{-0.09}	1.47E+37	9.92E+34
478	58724.976319030	563.1 ^{+1.3} _{-1.3}	2.4 ^{+1.0} _{-1.0}	122 ⁺⁸⁰ ₋₈₀	1336	12.09 ^{+0.10} _{-0.10}	29.49 ^{+0.09} _{-0.09}	3.33E+37	1.06E+35
479	58724.976369469	562.8 ^{+1.2} _{-1.2}	9.0 ^{+2.9} _{-2.9}	113 ⁺⁴¹ ₋₄₁	1271	12.26 ^{+0.10} _{-0.10}	110.87 ^{+0.28} _{-0.28}	1.25E+38	3.16E+35
480	58724.976369647	561.9 ^{+0.9} _{-0.9}	3.6 ^{+2.9} _{-2.9}	91 ⁺⁴⁰ ₋₄₀	1380	6.86 ^{+0.06} _{-0.06}	24.59 ^{+0.16} _{-0.16}	2.78E+37	1.79E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
481	58724.976403298	563.6 ^{+1.2} _{-1.2}	5.6 ^{+1.1} _{-1.1}	184 ⁺²⁵ ₋₂₅	1390	17.81 ^{+0.14} _{-0.14}	100.23 ^{+0.15} _{-0.15}	1.13E+38	1.75E+35
482	58724.976629060	563.1 ^{+1.2} _{-1.2}	3.4 ^{+0.4} _{-0.4}	156 ⁺²⁵ ₋₂₅	1405	17.84 ^{+0.14} _{-0.14}	60.19 ^{+0.06} _{-0.06}	6.80E+37	7.03E+34
483	58724.976768128	563.2 ^{+0.6} _{-0.6}	4.0 ^{+0.2} _{-0.2}	296 ⁺⁵⁴ ₋₅₄	1304	22.28 ^{+0.93} _{-0.93}	89.12 ^{+0.19} _{-0.19}	9.54E+37	1.99E+35
484	58724.977136803	563.5 ^{+1.3} _{-1.3}	3.3 ^{+0.5} _{-0.5}	80 ⁺⁴⁰ ₋₄₀	1386	22.28 ^{+0.18} _{-0.18}	73.87 ^{+0.10} _{-0.10}	8.35E+37	1.09E+35
485	58724.977344402	564.3 ^{+1.3} _{-1.3}	5.2 ^{+0.3} _{-0.3}	216 ⁺¹⁵ ₋₁₅	1373	16.14 ^{+0.83} _{-0.83}	83.77 ^{+0.26} _{-0.26}	8.97E+37	2.75E+35
486	58724.977482215	564.2 ^{+1.0} _{-1.0}	3.9 ^{+1.4} _{-1.4}	67 ⁺³⁵ ₋₃₅	1392	12.12 ^{+0.10} _{-0.10}	47.69 ^{+0.13} _{-0.13}	5.39E+37	1.47E+35
487	58724.977939161	563.3 ^{+1.3} _{-1.3}	6.3 ^{+0.7} _{-0.7}	180 ⁺⁵⁰ ₋₅₀	1377	20.61 ^{+0.16} _{-0.16}	129.62 ^{+0.12} _{-0.12}	1.46E+38	1.31E+35
488	58724.978517837	562.5 ^{+1.2} _{-1.2}	7.4 ^{+1.0} _{-1.0}	144 ⁺⁴⁵ ₋₄₅	1400	21.59 ^{+0.17} _{-0.17}	160.61 ^{+0.17} _{-0.17}	1.81E+38	1.90E+35
489	58724.978559294	563.3 ^{+1.1} _{-1.1}	6.0 ^{+1.3} _{-1.3}	64 ⁺³¹ ₋₃₁	1333	16.39 ^{+0.13} _{-0.13}	99.07 ^{+0.17} _{-0.17}	1.12E+38	1.96E+35
490	58724.978750821	564.4 ^{+1.0} _{-1.0}	4.8 ^{+0.6} _{-0.6}	190 ⁺²⁹ ₋₂₉	1390	34.40 ^{+0.27} _{-0.27}	166.38 ^{+0.16} _{-0.16}	1.88E+38	1.81E+35
491	58724.979317266	562.9 ^{+1.2} _{-1.2}	4.1 ^{+1.0} _{-1.0}	87 ⁺⁵⁵ ₋₅₅	1418	14.54 ^{+0.11} _{-0.11}	59.57 ^{+0.12} _{-0.12}	6.73E+37	1.32E+35
492	58724.979317344	563.8 ^{+1.2} _{-1.2}	5.1 ^{+1.3} _{-1.3}	89 ⁺⁴⁰ ₋₄₀	1213	17.80 ^{+0.14} _{-0.14}	90.34 ^{+0.18} _{-0.18}	1.02E+38	1.99E+35
493	58724.980094879	563.0 ^{+0.8} _{-0.8}	3.2 ^{+0.5} _{-0.5}	151 ⁺¹⁴ ₋₁₄	1119	31.15 ^{+0.24} _{-0.24}	100.36 ^{+0.12} _{-0.12}	1.13E+38	1.34E+35
494	58724.980150140	562.8 ^{+1.4} _{-1.4}	4.1 ^{+1.1} _{-1.1}	128 ⁺⁴⁹ ₋₄₉	1399	19.26 ^{+0.15} _{-0.15}	78.09 ^{+0.16} _{-0.16}	8.82E+37	1.84E+35
495	58724.980215217	563.2 ^{+1.2} _{-1.2}	2.7 ^{+0.6} _{-0.6}	66 ⁺⁶ ₋₆	1432	17.50 ^{+0.14} _{-0.14}	48.03 ^{+0.08} _{-0.08}	5.43E+37	8.59E+34
496	58724.980264853	562.9 ^{+0.4} _{-0.4}	2.3 ^{+0.4} _{-0.4}	136 ⁺⁵⁶ ₋₅₆	1241	25.39 ^{+0.20} _{-0.20}	58.26 ^{+0.07} _{-0.07}	6.58E+37	7.88E+34
497	58724.980264931	563.9 ^{+0.5} _{-0.5}	2.3 ^{+1.0} _{-1.0}	87 ⁺⁵⁶ ₋₅₆	1199	12.80 ^{+0.10} _{-0.10}	29.82 ^{+0.10} _{-0.10}	3.37E+37	1.12E+35
498	58724.980540139	562.6 ^{+1.4} _{-1.4}	3.9 ^{+1.5} _{-1.5}	120 ⁺⁴³ ₋₄₃	1378	12.16 ^{+0.10} _{-0.10}	47.12 ^{+0.14} _{-0.14}	5.32E+37	1.60E+35
499	58724.980540455	563.4 ^{+1.2} _{-1.2}	4.0 ^{+1.0} _{-1.0}	189 ⁺⁴⁰ ₋₄₀	1365	18.18 ^{+0.14} _{-0.14}	72.03 ^{+0.14} _{-0.14}	8.14E+37	1.54E+35
500	58724.980671370	563.5 ^{+1.0} _{-1.0}	1.5 ^{+0.7} _{-0.7}	51 ⁺³ ₋₃	1367	9.65 ^{+0.07} _{-0.07}	14.61 ^{+0.05} _{-0.05}	1.65E+37	5.91E+34
501	58724.980671536	564.5 ^{+1.1} _{-1.1}	4.7 ^{+1.2} _{-1.2}	81 ⁺³³ ₋₃₃	1388	17.50 ^{+0.14} _{-0.14}	81.82 ^{+0.16} _{-0.16}	9.25E+37	1.85E+35
502	58724.980740678	564.2 ^{+0.7} _{-0.7}	3.8 ^{+0.2} _{-0.2}	72 ⁺¹² ₋₁₂	1453	17.91 ^{+0.96} _{-0.96}	67.52 ^{+0.22} _{-0.22}	7.23E+37	2.36E+35
503	58724.980913794	563.5 ^{+1.3} _{-1.3}	2.7 ^{+0.6} _{-0.6}	53 ⁺²⁹ ₋₂₉	1419	19.99 ^{+0.15} _{-0.15}	54.72 ^{+0.09} _{-0.09}	6.18E+37	1.01E+35
504	58724.981190617	564.3 ^{+1.2} _{-1.2}	1.8 ^{+0.5} _{-0.5}	53 ⁺¹⁵ ₋₁₅	1377	13.64 ^{+0.10} _{-0.10}	24.58 ^{+0.06} _{-0.06}	2.78E+37	6.35E+34
505	58724.981191490	563.5 ^{+1.2} _{-1.2}	4.9 ^{+2.7} _{-2.7}	218 ⁺¹⁸ ₋₁₈	1288	8.79 ^{+0.07} _{-0.07}	42.89 ^{+0.18} _{-0.18}	4.85E+37	2.04E+35
506	58724.981735218	563.6 ^{+1.0} _{-1.0}	2.8 ^{+0.9} _{-0.9}	91 ⁺⁵⁷ ₋₅₇	1334	15.26 ^{+0.12} _{-0.12}	43.46 ^{+0.10} _{-0.10}	4.91E+37	1.16E+35
507	58724.982099645	565.2 ^{+0.6} _{-0.6}	7.1 ^{+2.1} _{-2.1}	138 ⁺⁴⁰ ₋₄₀	1285	17.31 ^{+0.13} _{-0.13}	122.69 ^{+0.28} _{-0.28}	1.39E+38	3.17E+35
508	58724.982178914	563.9 ^{+1.1} _{-1.1}	4.0 ^{+1.6} _{-1.6}	91 ⁺²³ ₋₂₃	1395	11.29 ^{+0.09} _{-0.09}	44.64 ^{+0.14} _{-0.14}	5.04E+37	1.56E+35
509	58724.982324444	564.1 ^{+0.5} _{-0.5}	3.2 ^{+0.5} _{-0.5}	146 ⁺¹⁹ ₋₁₉	1388	28.93 ^{+0.22} _{-0.22}	92.47 ^{+0.12} _{-0.12}	1.04E+38	1.35E+35
510	58724.982421794	563.6 ^{+1.2} _{-1.2}	2.7 ^{+0.9} _{-0.9}	89 ⁺⁴⁷ ₋₄₇	1337	16.29 ^{+0.12} _{-0.12}	43.77 ^{+0.12} _{-0.12}	4.95E+37	1.34E+35
511	58724.982455862	565.4 ^{+0.7} _{-0.7}	2.6 ^{+0.2} _{-0.2}	127 ⁺¹⁹ ₋₁₉	1299	18.75 ^{+1.03} _{-1.03}	47.81 ^{+0.18} _{-0.18}	5.12E+37	1.87E+35
512	58724.982455991	565.6 ^{+0.3} _{-0.3}	4.4 ^{+0.5} _{-0.5}	79 ⁺²⁴ ₋₂₄	1370	8.07 ^{+0.81} _{-0.81}	35.35 ^{+0.40} _{-0.40}	3.78E+37	4.34E+35
513	58724.982906526	564.2 ^{+0.6} _{-0.6}	1.7 ^{+0.2} _{-0.2}	223 ⁺⁶⁴ ₋₆₄	1301	32.41 ^{+0.25} _{-0.25}	55.92 ^{+0.05} _{-0.05}	6.32E+37	5.55E+34
514	58724.983024359	563.1 ^{+1.2} _{-1.2}	2.8 ^{+0.7} _{-0.7}	59 ⁺¹⁸ ₋₁₈	1422	17.96 ^{+0.14} _{-0.14}	49.46 ^{+0.09} _{-0.09}	5.59E+37	1.04E+35
515	58724.983076206	563.7 ^{+0.3} _{-0.3}	1.9 ^{+0.2} _{-0.2}	113 ⁺¹⁷ ₋₁₇	1274	25.89 ^{+0.20} _{-0.20}	50.39 ^{+0.04} _{-0.04}	5.69E+37	4.70E+34
516	58724.983076293	563.7 ^{+0.3} _{-0.3}	2.9 ^{+0.3} _{-0.3}	271 ⁺³² ₋₃₂	1304	52.63 ^{+0.40} _{-0.40}	153.00 ^{+0.11} _{-0.11}	1.73E+38	1.25E+35
517	58724.983326922	561.8 ^{+0.9} _{-0.9}	13.3 ^{+3.7} _{-3.7}	203 ⁺⁴⁶ ₋₄₆	1365	14.29 ^{+0.11} _{-0.11}	190.73 ^{+0.40} _{-0.40}	2.16E+38	4.54E+35
518	58724.983623653	563.3 ^{+1.5} _{-1.5}	2.5 ^{+0.6} _{-0.6}	382 ⁺¹⁷ ₋₁₇	1232	16.00 ^{+0.12} _{-0.12}	39.32 ^{+0.07} _{-0.07}	4.44E+37	7.76E+34
519	58724.983623934	563.7 ^{+0.2} _{-0.2}	1.6 ^{+0.2} _{-0.2}	131 ⁺³⁴ ₋₃₄	1357	31.59 ^{+0.24} _{-0.24}	50.74 ^{+0.05} _{-0.05}	5.73E+37	5.72E+34
520	58724.983750465	561.7 ^{+1.2} _{-1.2}	9.4 ^{+2.9} _{-2.9}	84 ⁺⁶ ₋₆	1414	16.31 ^{+0.12} _{-0.12}	153.89 ^{+0.36} _{-0.36}	1.74E+38	4.06E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
521	58724.983776539	563.9 ^{+1.1} _{-1.1}	2.1 ^{+0.7} _{-0.7}	70 ⁺⁵ ₋₅	1387	15.10 ^{+0.12} _{-0.12}	31.32 ^{+0.08} _{-0.08}	3.54E+37	9.34E+34
522	58724.984158262	563.5 ^{+1.2} _{-1.2}	4.3 ^{+1.2} _{-1.2}	51 ⁺³⁰ ₋₃₀	1395	15.17 ^{+0.12} _{-0.12}	64.87 ^{+0.14} _{-0.14}	7.33E+37	1.57E+35
523	58724.984158425	563.7 ^{+1.1} _{-1.1}	3.7 ^{+1.5} _{-1.5}	191 ⁺⁶⁷ ₋₆₇	1330	8.41 ^{+0.06} _{-0.06}	30.82 ^{+0.09} _{-0.09}	3.48E+37	1.05E+35
524	58724.984619900	562.4 ^{+1.0} _{-1.0}	3.3 ^{+0.5} _{-0.5}	89 ⁺²⁴ ₋₂₄	1116	8.13 ^{+0.06} _{-0.06}	26.92 ^{+0.23} _{-0.23}	2.88E+37	2.47E+35
525	58724.984704915	564.0 ^{+0.4} _{-0.4}	4.4 ^{+0.9} _{-0.9}	82 ⁺³⁵ ₋₃₅	1358	21.23 ^{+0.16} _{-0.16}	93.45 ^{+0.15} _{-0.15}	1.06E+38	1.66E+35
526	58724.984855410	562.9 ^{+1.3} _{-1.3}	2.5 ^{+1.2} _{-1.2}	50 ⁺¹⁷ ₋₁₇	1439	8.96 ^{+0.07} _{-0.07}	22.02 ^{+0.08} _{-0.08}	2.49E+37	9.27E+34
527	58724.985489360	564.4 ^{+1.1} _{-1.1}	3.1 ^{+0.6} _{-0.6}	68 ⁺¹⁷ ₋₁₇	1343	20.72 ^{+0.16} _{-0.16}	64.81 ^{+0.10} _{-0.10}	7.32E+37	1.08E+35
528	58724.985743881	563.5 ^{+1.2} _{-1.2}	3.4 ^{+0.7} _{-0.7}	76 ⁺²⁴ ₋₂₄	1354	15.12 ^{+0.11} _{-0.11}	51.39 ^{+0.08} _{-0.08}	5.81E+37	8.55E+34
529	58724.985744973	562.9 ^{+1.2} _{-1.2}	7.9 ^{+2.1} _{-2.1}	87 ⁺³² ₋₃₂	1423	17.44 ^{+0.13} _{-0.13}	138.42 ^{+0.27} _{-0.27}	1.56E+38	3.07E+35
530	58724.985926277	563.3 ^{+1.2} _{-1.2}	6.0 ^{+1.2} _{-1.2}	72 ⁺³ ₋₃	1355	13.95 ^{+0.10} _{-0.10}	84.30 ^{+0.13} _{-0.13}	9.53E+37	1.48E+35
531	58724.985926740	561.3 ^{+1.0} _{-1.0}	4.2 ^{+1.4} _{-1.4}	64 ⁺³⁰ ₋₃₀	1408	11.65 ^{+0.09} _{-0.09}	48.60 ^{+0.13} _{-0.13}	5.49E+37	1.43E+35
532	58724.986024309	563.8 ^{+0.9} _{-0.9}	4.2 ^{+1.1} _{-1.1}	81 ⁺⁴² ₋₄₂	1368	18.69 ^{+0.14} _{-0.14}	79.10 ^{+0.16} _{-0.16}	8.94E+37	1.80E+35
533	58724.986790361	562.6 ^{+1.2} _{-1.2}	1.8 ^{+0.6} _{-0.6}	76 ⁺²¹ ₋₂₁	1393	13.61 ^{+0.10} _{-0.10}	24.06 ^{+0.07} _{-0.07}	2.72E+37	7.37E+34
534	58724.986850204	564.0 ^{+1.3} _{-1.3}	5.1 ^{+1.0} _{-1.0}	59 ⁺⁴³ ₋₄₃	1336	20.34 ^{+0.15} _{-0.15}	104.28 ^{+0.15} _{-0.15}	1.18E+38	1.73E+35
535	58724.986995143	563.0 ^{+1.2} _{-1.2}	8.1 ^{+2.0} _{-2.0}	106 ⁺¹² ₋₁₂	1179	23.04 ^{+0.17} _{-0.17}	186.04 ^{+0.35} _{-0.35}	2.10E+38	3.97E+35
536	58724.986995842	563.5 ^{+1.1} _{-1.1}	10.5 ^{+2.4} _{-2.4}	156 ⁺¹⁰ ₋₁₀	1410	17.03 ^{+0.13} _{-0.13}	178.33 ^{+0.30} _{-0.30}	2.02E+38	3.44E+35
537	58724.987689253	563.1 ^{+0.3} _{-0.3}	2.5 ^{+0.9} _{-0.9}	52 ⁺²⁸ ₋₂₈	1374	16.51 ^{+0.12} _{-0.12}	41.11 ^{+0.11} _{-0.11}	4.65E+37	1.22E+35
538	58724.987705111	563.0 ^{+1.1} _{-1.1}	4.6 ^{+2.6} _{-2.6}	246 ⁺⁴⁹ ₋₄₉	1258	8.57 ^{+0.06} _{-0.06}	39.07 ^{+0.16} _{-0.16}	4.41E+37	1.86E+35
539	58724.987705297	563.2 ^{+1.2} _{-1.2}	2.8 ^{+1.6} _{-1.6}	119 ⁺⁴ ₋₄	1195	12.53 ^{+0.09} _{-0.09}	34.52 ^{+0.15} _{-0.15}	3.90E+37	1.67E+35
540	58724.987705671	563.1 ^{+1.4} _{-1.4}	4.5 ^{+1.4} _{-1.4}	106 ⁺⁵⁵ ₋₅₅	1158	21.16 ^{+0.16} _{-0.16}	94.76 ^{+0.21} _{-0.21}	1.07E+38	2.41E+35
541	58724.987706008	563.3 ^{+1.4} _{-1.4}	2.0 ^{+0.6} _{-0.6}	120 ⁺⁹ ₋₉	1265	19.94 ^{+0.15} _{-0.15}	40.48 ^{+0.08} _{-0.08}	4.57E+37	9.24E+34
542	58724.987853598	563.2 ^{+1.2} _{-1.2}	2.9 ^{+0.9} _{-0.9}	93 ⁺²⁶ ₋₂₆	1410	12.43 ^{+0.09} _{-0.09}	35.61 ^{+0.08} _{-0.08}	4.02E+37	8.90E+34
543	58724.987921266	565.1 ^{+0.7} _{-0.7}	3.4 ^{+0.5} _{-0.5}	260 ⁺²⁶ ₋₂₆	1354	34.73 ^{+0.26} _{-0.26}	118.98 ^{+0.13} _{-0.13}	1.34E+38	1.47E+35
544	58724.988080051	563.7 ^{+0.9} _{-0.9}	3.4 ^{+1.2} _{-1.2}	127 ⁺¹⁶ ₋₁₆	1408	20.31 ^{+0.15} _{-0.15}	68.89 ^{+0.18} _{-0.18}	7.79E+37	2.07E+35
545	58724.988120469	563.4 ^{+1.1} _{-1.1}	3.8 ^{+1.0} _{-1.0}	73 ⁺¹⁷ ₋₁₇	1142	19.16 ^{+0.14} _{-0.14}	72.95 ^{+0.14} _{-0.14}	8.24E+37	1.63E+35
546	58724.988200585	563.6 ^{+1.3} _{-1.3}	4.1 ^{+2.0} _{-2.0}	102 ⁺¹⁷ ₋₁₇	1423	15.00 ^{+0.11} _{-0.11}	61.59 ^{+0.22} _{-0.22}	6.96E+37	2.47E+35
547	58724.988210858	562.9 ^{+0.4} _{-0.4}	5.0 ^{+1.5} _{-1.5}	75 ⁺³⁶ ₋₃₆	1406	14.98 ^{+0.11} _{-0.11}	75.24 ^{+0.17} _{-0.17}	8.50E+37	1.90E+35
548	58724.988213604	563.5 ^{+1.3} _{-1.3}	5.9 ^{+1.6} _{-1.6}	85 ⁺²⁴ ₋₂₄	1443	17.33 ^{+0.13} _{-0.13}	102.84 ^{+0.21} _{-0.21}	1.16E+38	2.33E+35
549	58724.988215380	562.9 ^{+1.3} _{-1.3}	8.5 ^{+1.2} _{-1.2}	48 ⁺¹⁹ ₋₁₉	1411	4.21 ^{+0.03} _{-0.03}	35.91 ^{+0.30} _{-0.30}	3.84E+37	3.24E+35
550	58724.988259295	562.5 ^{+1.3} _{-1.3}	9.9 ^{+2.9} _{-2.9}	87 ⁺²⁶ ₋₂₆	1422	13.16 ^{+0.10} _{-0.10}	130.74 ^{+0.28} _{-0.28}	1.48E+38	3.22E+35
551	58724.988392167	563.2 ^{+1.1} _{-1.1}	2.6 ^{+0.4} _{-0.4}	228 ⁺¹⁸³ ₋₁₈₃	1166	6.59 ^{+0.05} _{-0.05}	17.03 ^{+0.14} _{-0.14}	1.82E+37	1.55E+35
552	58724.988407386	565.1 ^{+0.2} _{-0.2}	6.1 ^{+5.0} _{-5.0}	51 ⁺²⁵ ₋₂₅	1434	7.76 ^{+0.06} _{-0.06}	47.69 ^{+0.29} _{-0.29}	5.39E+37	3.28E+35
553	58724.988407631	563.4 ^{+1.1} _{-1.1}	3.2 ^{+0.4} _{-0.4}	118 ⁺¹⁸ ₋₁₈	1262	10.29 ^{+1.03} _{-1.03}	32.93 ^{+0.38} _{-0.38}	3.52E+37	4.08E+35
554	58724.988407954	563.8 ^{+1.0} _{-1.0}	5.5 ^{+0.6} _{-0.6}	99 ⁺¹⁷ ₋₁₇	1422	7.69 ^{+0.81} _{-0.81}	42.45 ^{+0.51} _{-0.51}	4.54E+37	5.46E+35
555	58724.988517708	563.3 ^{+1.3} _{-1.3}	11.5 ^{+2.7} _{-2.7}	193 ⁺¹¹⁰ ₋₁₁₀	1344	17.35 ^{+0.13} _{-0.13}	200.12 ^{+0.35} _{-0.35}	2.26E+38	4.00E+35
556	58724.988591920	563.9 ^{+1.2} _{-1.2}	3.2 ^{+0.7} _{-0.7}	52 ⁺²⁴ ₋₂₄	1393	16.82 ^{+0.12} _{-0.12}	53.05 ^{+0.08} _{-0.08}	5.99E+37	9.27E+34
557	58724.988703670	562.3 ^{+1.2} _{-1.2}	6.1 ^{+1.2} _{-1.2}	79 ⁺⁴² ₋₄₂	1416	21.41 ^{+0.16} _{-0.16}	129.95 ^{+0.20} _{-0.20}	1.47E+38	2.21E+35
558	58724.988703774	562.1 ^{+1.1} _{-1.1}	8.7 ^{+1.8} _{-1.8}	180 ⁺³² ₋₃₂	1392	23.12 ^{+0.17} _{-0.17}	201.64 ^{+0.32} _{-0.32}	2.28E+38	3.57E+35
559	58724.988944250	562.7 ^{+1.3} _{-1.3}	4.7 ^{+0.9} _{-0.9}	123 ⁺³⁴ ₋₃₄	1415	20.03 ^{+0.15} _{-0.15}	94.30 ^{+0.13} _{-0.13}	1.07E+38	1.47E+35
560	58724.989252388	563.9 ^{+1.2} _{-1.2}	7.5 ^{+2.2} _{-2.2}	67 ⁺³⁶ ₋₃₆	1427	13.59 ^{+0.10} _{-0.10}	101.99 ^{+0.22} _{-0.22}	1.15E+38	2.46E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
561	58724.989380733	564.7 ^{+0.9} _{-0.9}	2.4 ^{+0.4} _{-0.4}	67 ⁺³⁷ ₋₃₇	1357	18.21 ^{+0.14} _{-0.14}	43.04 ^{+0.06} _{-0.06}	4.86E+37	6.65E+34
562	58724.989434175	564.2 ^{+0.8} _{-0.8}	4.4 ^{+1.6} _{-1.6}	160 ⁺⁷ ₋₇	1230	11.80 ^{+0.09} _{-0.09}	51.32 ^{+0.14} _{-0.14}	5.80E+37	1.56E+35
563	58724.989434418	564.0 ^{+0.4} _{-0.4}	2.2 ^{+0.3} _{-0.3}	150 ⁺⁵³ ₋₅₃	1376	26.82 ^{+0.20} _{-0.20}	57.90 ^{+0.06} _{-0.06}	6.54E+37	7.12E+34
564	58724.989508425	564.6 ^{+1.1} _{-1.1}	5.4 ^{+0.9} _{-0.9}	164 ⁺¹⁹ ₋₁₉	1306	23.83 ^{+0.18} _{-0.18}	128.84 ^{+0.16} _{-0.16}	1.46E+38	1.76E+35
565	58724.989567338	563.6 ^{+1.2} _{-1.2}	3.9 ^{+2.3} _{-2.3}	47 ⁺⁸ ₋₈	1408	8.25 ^{+0.06} _{-0.06}	32.04 ^{+0.14} _{-0.14}	3.62E+37	1.56E+35
566	58724.989966031	563.7 ^{+0.2} _{-0.2}	1.9 ^{+0.1} _{-0.1}	184 ⁺⁷ ₋₇	1401	69.61 ^{+0.51} _{-0.51}	134.32 ^{+0.08} _{-0.08}	1.52E+38	8.55E+34
567	58724.989966435	562.2 ^{+1.7} _{-1.7}	6.0 ^{+2.2} _{-2.2}	56 ⁺²⁵ ₋₂₅	1362	10.45 ^{+0.08} _{-0.08}	62.62 ^{+0.17} _{-0.17}	7.08E+37	1.90E+35
568	58724.989995219	564.8 ^{+0.7} _{-0.7}	3.5 ^{+0.6} _{-0.6}	213 ⁺³⁰ ₋₃₀	1247	23.20 ^{+0.17} _{-0.17}	82.02 ^{+0.10} _{-0.10}	9.27E+37	1.15E+35
569	58724.990015723	563.2 ^{+1.3} _{-1.3}	2.3 ^{+0.5} _{-0.5}	49 ⁺³ ₋₃	1413	13.24 ^{+0.10} _{-0.10}	30.51 ^{+0.05} _{-0.05}	3.45E+37	5.15E+34
570	58724.990529813	565.0 ^{+0.6} _{-0.6}	4.2 ^{+0.7} _{-0.7}	143 ⁺²⁵ ₋₂₅	1387	26.51 ^{+0.20} _{-0.20}	112.43 ^{+0.14} _{-0.14}	1.27E+38	1.57E+35
571	58724.990590828	563.6 ^{+0.1} _{-0.1}	4.3 ^{+0.2} _{-0.2}	443 ⁺⁶⁸ ₋₆₈	1276	28.96 ^{+0.99} _{-0.99}	123.37 ^{+0.17} _{-0.17}	1.32E+38	1.80E+35
572	58724.990590941	563.7 ^{+0.1} _{-0.1}	2.9 ^{+0.7} _{-0.7}	90 ⁺⁶⁷ ₋₆₇	1353	16.01 ^{+0.12} _{-0.12}	46.39 ^{+0.08} _{-0.08}	5.24E+37	9.09E+34
573	58724.990625097	563.3 ^{+1.2} _{-1.2}	5.4 ^{+1.6} _{-1.6}	68 ⁺¹³ ₋₁₃	1396	15.62 ^{+0.12} _{-0.12}	83.89 ^{+0.18} _{-0.18}	9.48E+37	2.05E+35
574	58724.991119116	562.8 ^{+1.1} _{-1.1}	1.8 ^{+0.5} _{-0.5}	76 ⁺³⁰ ₋₃₀	1393	15.95 ^{+0.12} _{-0.12}	29.00 ^{+0.06} _{-0.06}	3.28E+37	6.87E+34
575	58724.991408451	563.8 ^{+0.3} _{-0.3}	2.5 ^{+0.1} _{-0.1}	180 ⁺¹³ ₋₁₃	1141	29.24 ^{+1.23} _{-1.23}	74.27 ^{+0.16} _{-0.16}	7.95E+37	1.71E+35
576	58724.991487643	563.3 ^{+1.2} _{-1.2}	5.2 ^{+0.8} _{-0.8}	102 ⁺⁴⁹ ₋₄₉	1164	26.74 ^{+0.20} _{-0.20}	140.23 ^{+0.15} _{-0.15}	1.58E+38	1.74E+35
577	58724.991598107	565.2 ^{+0.4} _{-0.4}	3.0 ^{+0.4} _{-0.4}	210 ⁺²⁷ ₋₂₇	1383	39.21 ^{+0.29} _{-0.29}	117.99 ^{+0.11} _{-0.11}	1.33E+38	1.24E+35
578	58724.991598205	564.7 ^{+0.4} _{-0.4}	5.4 ^{+0.6} _{-0.6}	115 ⁺²⁸ ₋₂₈	1413	23.39 ^{+0.17} _{-0.17}	127.03 ^{+0.11} _{-0.11}	1.44E+38	1.26E+35
579	58724.991942188	560.3 ^{+0.8} _{-0.8}	6.3 ^{+2.5} _{-2.5}	95 ⁺⁹⁶ ₋₉₆	1300	13.09 ^{+0.10} _{-0.10}	82.47 ^{+0.24} _{-0.24}	9.32E+37	2.74E+35
580	58724.991942343	560.9 ^{+0.8} _{-0.8}	5.9 ^{+2.1} _{-2.1}	86 ⁺²⁹ ₋₂₉	1401	15.35 ^{+0.11} _{-0.11}	90.31 ^{+0.23} _{-0.23}	1.02E+38	2.63E+35
581	58724.992287137	562.6 ^{+1.3} _{-1.3}	3.8 ^{+1.0} _{-1.0}	60 ⁺³⁸ ₋₃₈	1366	22.05 ^{+0.16} _{-0.16}	83.57 ^{+0.16} _{-0.16}	9.44E+37	1.76E+35
582	58724.992626592	563.9 ^{+0.5} _{-0.5}	1.6 ^{+0.8} _{-0.8}	102 ⁺⁶ ₋₆	1395	12.00 ^{+0.09} _{-0.09}	18.66 ^{+0.07} _{-0.07}	2.11E+37	7.63E+34
583	58724.992626770	562.1 ^{+0.8} _{-0.8}	2.6 ^{+1.2} _{-1.2}	66 ⁺⁶⁷ ₋₆₇	1326	11.16 ^{+0.08} _{-0.08}	29.12 ^{+0.10} _{-0.10}	3.29E+37	1.11E+35
584	58724.992627790	562.6 ^{+1.3} _{-1.3}	10.4 ^{+1.6} _{-1.6}	100 ⁺⁴ ₋₄	1113	17.31 ^{+0.13} _{-0.13}	179.89 ^{+0.20} _{-0.20}	2.03E+38	2.29E+35
585	58724.992628397	563.8 ^{+1.1} _{-1.1}	6.0 ^{+1.8} _{-1.8}	81 ⁺¹⁵ ₋₁₅	1364	12.84 ^{+0.10} _{-0.10}	76.38 ^{+0.17} _{-0.17}	8.63E+37	1.96E+35
586	58724.993121550	563.1 ^{+0.3} _{-0.3}	5.1 ^{+0.5} _{-0.5}	271 ⁺⁶⁰ ₋₆₀	1173	9.33 ^{+0.71} _{-0.71}	47.86 ^{+0.33} _{-0.33}	5.12E+37	3.50E+35
587	58724.993148610	562.8 ^{+1.1} _{-1.1}	8.8 ^{+4.4} _{-4.4}	93 ⁺²⁹ ₋₂₉	1403	10.17 ^{+0.07} _{-0.07}	89.94 ^{+0.33} _{-0.33}	1.02E+38	3.69E+35
588	58724.993376491	563.4 ^{+1.1} _{-1.1}	3.5 ^{+0.6} _{-0.6}	89 ⁺⁴⁵ ₋₄₅	1404	21.06 ^{+0.15} _{-0.15}	73.40 ^{+0.09} _{-0.09}	8.29E+37	1.04E+35
589	58724.993473133	563.9 ^{+1.0} _{-1.0}	6.0 ^{+1.3} _{-1.3}	196 ⁺⁴⁶ ₋₄₆	1238	15.86 ^{+0.12} _{-0.12}	94.70 ^{+0.15} _{-0.15}	1.07E+38	1.65E+35
590	58724.993473700	563.4 ^{+1.1} _{-1.1}	5.6 ^{+1.7} _{-1.7}	67 ⁺³⁹ ₋₃₉	1334	11.11 ^{+0.08} _{-0.08}	62.62 ^{+0.14} _{-0.14}	7.08E+37	1.56E+35
591	58724.993893315	563.2 ^{+0.8} _{-0.8}	4.3 ^{+0.6} _{-0.6}	132 ⁺¹⁹ ₋₁₉	1393	23.98 ^{+0.17} _{-0.17}	102.31 ^{+0.10} _{-0.10}	1.16E+38	1.16E+35
592	58724.994045339	563.0 ^{+0.5} _{-0.5}	3.7 ^{+1.5} _{-1.5}	112 ⁺²² ₋₂₂	1386	11.09 ^{+0.08} _{-0.08}	41.38 ^{+0.12} _{-0.12}	4.68E+37	1.33E+35
593	58724.994384779	565.5 ^{+0.7} _{-0.7}	4.9 ^{+0.3} _{-0.3}	186 ⁺¹³ ₋₁₃	1331	11.61 ^{+0.66} _{-0.66}	57.12 ^{+0.21} _{-0.21}	6.11E+37	2.26E+35
594	58724.994579789	563.7 ^{+0.6} _{-0.6}	3.6 ^{+3.1} _{-3.1}	60 ⁺²⁷ ₋₂₇	1423	7.66 ^{+0.06} _{-0.06}	27.36 ^{+0.17} _{-0.17}	3.09E+37	1.94E+35
595	58724.994580036	562.2 ^{+0.9} _{-0.9}	7.6 ^{+1.8} _{-1.8}	154 ⁺¹⁸ ₋₁₈	1407	18.01 ^{+0.13} _{-0.13}	136.09 ^{+0.24} _{-0.24}	1.54E+38	2.68E+35
596	58724.994580435	565.7 ^{+0.1} _{-0.1}	8.7 ^{+2.1} _{-2.1}	92 ⁺⁶⁰ ₋₆₀	1253	15.61 ^{+0.11} _{-0.11}	135.90 ^{+0.24} _{-0.24}	1.54E+38	2.77E+35
597	58724.994653664	562.7 ^{+1.2} _{-1.2}	2.0 ^{+0.7} _{-0.7}	73 ⁺³⁹ ₋₃₉	1385	11.55 ^{+0.09} _{-0.09}	22.78 ^{+0.06} _{-0.06}	2.57E+37	6.91E+34
598	58724.995231584	563.3 ^{+1.2} _{-1.2}	4.3 ^{+1.6} _{-1.6}	106 ⁺¹⁰ ₋₁₀	1369	13.97 ^{+0.10} _{-0.10}	59.97 ^{+0.16} _{-0.16}	6.78E+37	1.82E+35
599	58724.995283349	563.6 ^{+1.2} _{-1.2}	3.5 ^{+0.9} _{-0.9}	75 ⁺⁶⁹ ₋₆₉	1426	19.86 ^{+0.15} _{-0.15}	68.72 ^{+0.13} _{-0.13}	7.77E+37	1.45E+35
600	58724.995283480	563.3 ^{+1.2} _{-1.2}	4.5 ^{+2.8} _{-2.8}	155 ⁺⁹ ₋₉	1273	7.72 ^{+0.06} _{-0.06}	34.70 ^{+0.16} _{-0.16}	3.92E+37	1.77E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
601	58724.995284063	564.6 ^{+0.8} _{-0.8}	6.0 ^{+1.4} _{-1.4}	148 ⁺¹⁵⁶ ₋₁₅₆	1324	19.23 ^{+0.14} _{-0.14}	115.59 ^{+0.20} _{-0.20}	1.31E+38	2.21E+35
602	58724.995284287	562.6 ^{+0.9} _{-0.9}	4.6 ^{+1.6} _{-1.6}	341 ⁺⁴ ₋₄	1210	9.14 ^{+0.07} _{-0.07}	42.33 ^{+0.11} _{-0.11}	4.78E+37	1.20E+35
603	58724.996129717	565.6 ^{+0.2} _{-0.2}	1.8 ^{+0.2} _{-0.2}	285 ⁺¹⁴ ₋₁₄	1292	24.35 ^{+2.36} _{-2.36}	44.32 ^{+0.40} _{-0.40}	4.74E+37	4.29E+35
604	58724.996129750	565.6 ^{+0.2} _{-0.2}	4.9 ^{+0.4} _{-0.4}	282 ⁺¹⁹ ₋₁₉	1188	24.01 ^{+0.77} _{-0.77}	117.17 ^{+0.28} _{-0.28}	1.25E+38	2.97E+35
605	58724.996341269	564.2 ^{+1.2} _{-1.2}	4.0 ^{+1.7} _{-1.7}	57 ⁺²⁸ ₋₂₈	1380	11.30 ^{+0.08} _{-0.08}	44.77 ^{+0.14} _{-0.14}	5.06E+37	1.53E+35
606	58724.996341552	562.3 ^{+0.3} _{-0.3}	1.7 ^{+1.2} _{-1.2}	55 ⁺³³ ₋₃₃	1390	7.77 ^{+0.06} _{-0.06}	13.53 ^{+0.07} _{-0.07}	1.53E+37	7.78E+34
607	58724.996731939	563.0 ^{+1.1} _{-1.1}	6.3 ^{+2.3} _{-2.3}	74 ⁺³⁰ ₋₃₀	1101	15.77 ^{+0.12} _{-0.12}	98.68 ^{+0.27} _{-0.27}	1.12E+38	3.01E+35
608	58724.997234796	563.9 ^{+1.0} _{-1.0}	4.1 ^{+1.1} _{-1.1}	54 ⁺¹² ₋₁₂	1076	16.20 ^{+0.12} _{-0.12}	65.97 ^{+0.13} _{-0.13}	7.45E+37	1.47E+35
609	58724.997340919	563.0 ^{+1.1} _{-1.1}	1.8 ^{+0.4} _{-0.4}	314 ⁺¹³⁸ ₋₁₃₈	1215	15.96 ^{+0.12} _{-0.12}	29.44 ^{+0.05} _{-0.05}	3.33E+37	5.68E+34
610	58724.997602763	565.0 ^{+0.6} _{-0.6}	2.4 ^{+0.2} _{-0.2}	145 ⁺³⁴ ₋₃₄	1398	36.28 ^{+0.27} _{-0.27}	87.90 ^{+0.06} _{-0.06}	9.93E+37	7.01E+34
611	58724.997629153	563.6 ^{+1.3} _{-1.3}	5.2 ^{+1.5} _{-1.5}	110 ⁺⁴⁰ ₋₄₀	1412	18.21 ^{+0.13} _{-0.13}	94.42 ^{+0.20} _{-0.20}	1.07E+38	2.23E+35
612	58724.997906526	564.1 ^{+1.0} _{-1.0}	2.4 ^{+0.3} _{-0.3}	165 ⁺²⁷ ₋₂₇	1303	31.16 ^{+0.23} _{-0.23}	74.42 ^{+0.07} _{-0.07}	8.41E+37	7.78E+34
613	58724.998272414	563.6 ^{+1.1} _{-1.1}	1.4 ^{+0.8} _{-0.8}	103 ⁺²⁸ ₋₂₈	1396	7.76 ^{+0.06} _{-0.06}	11.14 ^{+0.05} _{-0.05}	1.26E+37	5.39E+34
614	58724.998272690	563.3 ^{+1.4} _{-1.4}	3.4 ^{+0.5} _{-0.5}	191 ⁺⁷⁴ ₋₇₄	1255	14.92 ^{+0.11} _{-0.11}	51.03 ^{+0.43} _{-0.43}	5.46E+37	4.57E+35
615	58724.998455365	563.0 ^{+1.2} _{-1.2}	2.5 ^{+2.3} _{-2.3}	148 ⁺³ ₋₃	1267	7.57 ^{+0.06} _{-0.06}	19.05 ^{+0.12} _{-0.12}	2.15E+37	1.41E+35
616	58724.998455679	563.3 ^{+0.8} _{-0.8}	6.8 ^{+1.8} _{-1.8}	112 ⁺⁴³ ₋₄₃	1351	22.66 ^{+0.17} _{-0.17}	153.16 ^{+0.30} _{-0.30}	1.73E+38	3.34E+35
617	58724.998514128	562.9 ^{+1.1} _{-1.1}	3.5 ^{+1.5} _{-1.5}	179 ⁺⁵⁰ ₋₅₀	1349	15.07 ^{+0.11} _{-0.11}	52.65 ^{+0.17} _{-0.17}	5.95E+37	1.88E+35
618	58724.998514385	564.8 ^{+0.9} _{-0.9}	1.8 ^{+0.7} _{-0.7}	248 ⁺⁵¹ ₋₅₁	1217	18.88 ^{+0.14} _{-0.14}	34.35 ^{+0.09} _{-0.09}	3.88E+37	1.02E+35
619	58724.998514668	561.9 ^{+0.7} _{-0.7}	6.0 ^{+2.1} _{-2.1}	193 ⁺²⁷ ₋₂₇	1150	17.83 ^{+0.13} _{-0.13}	106.84 ^{+0.28} _{-0.28}	1.21E+38	3.17E+35
620	58724.998514822	562.8 ^{+1.3} _{-1.3}	10.7 ^{+5.0} _{-5.0}	90 ⁺⁸ ₋₈	1150	12.30 ^{+0.09} _{-0.09}	131.64 ^{+0.45} _{-0.45}	1.49E+38	5.05E+35
621	58724.998574730	563.3 ^{+1.2} _{-1.2}	1.8 ^{+0.3} _{-0.3}	73 ⁺³⁰ ₋₃₀	1395	16.60 ^{+0.12} _{-0.12}	29.35 ^{+0.04} _{-0.04}	3.32E+37	4.66E+34
622	58724.998574862	563.4 ^{+1.2} _{-1.2}	4.0 ^{+1.6} _{-1.6}	65 ⁺³⁵ ₋₃₅	1381	13.69 ^{+0.10} _{-0.10}	54.46 ^{+0.16} _{-0.16}	6.15E+37	1.85E+35
623	58724.998860806	564.9 ^{+1.2} _{-1.2}	4.3 ^{+0.6} _{-0.6}	258 ⁺⁴³ ₋₄₃	1258	26.43 ^{+0.19} _{-0.19}	113.20 ^{+0.12} _{-0.12}	1.28E+38	1.41E+35
624	58724.998900811	563.5 ^{+1.3} _{-1.3}	4.3 ^{+1.4} _{-1.4}	49 ⁺¹² ₋₁₂	1365	13.46 ^{+0.10} _{-0.10}	57.99 ^{+0.14} _{-0.14}	6.55E+37	1.55E+35
625	58724.998961117	564.3 ^{+1.0} _{-1.0}	4.2 ^{+1.1} _{-1.1}	80 ⁺²⁴ ₋₂₄	1347	15.49 ^{+0.11} _{-0.11}	65.71 ^{+0.12} _{-0.12}	7.43E+37	1.40E+35
626	58725.876553275	562.7 ^{+0.5} _{-0.5}	3.2 ^{+0.5} _{-0.5}	139 ⁺⁷ ₋₇	1359	18.57 ^{+0.31} _{-0.31}	58.73 ^{+0.17} _{-0.17}	6.64E+37	1.92E+35
627	58725.876553368	562.8 ^{+1.1} _{-1.1}	5.2 ^{+1.5} _{-1.5}	284 ⁺⁷⁰ ₋₇₀	1239	9.78 ^{+0.16} _{-0.16}	50.49 ^{+0.24} _{-0.24}	5.70E+37	2.73E+35
628	58725.876554261	563.3 ^{+0.6} _{-0.6}	3.7 ^{+0.9} _{-0.9}	226 ⁺¹⁹ ₋₁₉	1253	9.54 ^{+0.16} _{-0.16}	35.22 ^{+0.14} _{-0.14}	3.98E+37	1.62E+35
629	58725.876554364	563.2 ^{+0.5} _{-0.5}	5.6 ^{+1.9} _{-1.9}	122 ⁺⁴³ ₋₄₃	1281	11.80 ^{+0.20} _{-0.20}	66.49 ^{+0.37} _{-0.37}	7.51E+37	4.16E+35
630	58725.876554954	563.4 ^{+1.0} _{-1.0}	3.2 ^{+0.9} _{-0.9}	95 ⁺²² ₋₂₂	1349	11.96 ^{+0.20} _{-0.20}	38.34 ^{+0.17} _{-0.17}	4.33E+37	1.96E+35
631	58725.876603952	564.1 ^{+0.8} _{-0.8}	2.9 ^{+1.7} _{-1.7}	35 ⁺⁵ ₋₅	1408	5.29 ^{+0.09} _{-0.09}	15.56 ^{+0.15} _{-0.15}	1.76E+37	1.72E+35
632	58725.876860616	565.1 ^{+0.4} _{-0.4}	2.8 ^{+0.2} _{-0.2}	223 ⁺¹⁵ ₋₁₅	1359	130.23 ^{+9.65} _{-9.65}	371.16 ^{+2.41} _{-2.41}	3.97E+38	2.58E+36
633	58725.876971540	562.9 ^{+1.1} _{-1.1}	5.7 ^{+2.4} _{-2.4}	209 ⁺¹⁴⁹ ₋₁₄₉	1161	6.95 ^{+0.12} _{-0.12}	39.38 ^{+0.28} _{-0.28}	4.45E+37	3.20E+35
634	58725.877082839	561.7 ^{+0.9} _{-0.9}	6.1 ^{+0.9} _{-0.9}	158 ⁺²⁵ ₋₂₅	1242	4.46 ^{+0.07} _{-0.07}	27.35 ^{+0.53} _{-0.53}	2.93E+37	5.63E+35
635	58725.877424785	563.7 ^{+1.0} _{-1.0}	3.5 ^{+0.8} _{-0.8}	67 ⁺⁴ ₋₄	1412	11.90 ^{+0.20} _{-0.20}	41.68 ^{+0.16} _{-0.16}	4.71E+37	1.81E+35
636	58725.877568828	562.8 ^{+0.9} _{-0.9}	3.8 ^{+1.5} _{-1.5}	83 ⁺²⁹ ₋₂₉	1430	10.90 ^{+0.19} _{-0.19}	41.06 ^{+0.29} _{-0.29}	4.64E+37	3.25E+35
637	58725.878996007	561.6 ^{+0.6} _{-0.6}	4.6 ^{+1.3} _{-1.3}	80 ⁺⁴⁶ ₋₄₆	1431	11.29 ^{+0.19} _{-0.19}	52.04 ^{+0.23} _{-0.23}	5.88E+37	2.65E+35
638	58725.880075349	563.3 ^{+1.3} _{-1.3}	2.6 ^{+0.7} _{-0.7}	99 ⁺²⁷ ₋₂₇	1369	8.12 ^{+0.13} _{-0.13}	21.25 ^{+0.09} _{-0.09}	2.40E+37	1.00E+35
639	58725.880075486	564.7 ^{+0.9} _{-0.9}	1.4 ^{+0.7} _{-0.7}	73 ⁺⁵ ₋₅	1401	7.46 ^{+0.12} _{-0.12}	10.53 ^{+0.09} _{-0.09}	1.19E+37	9.97E+34
640	58725.880384001	562.0 ^{+0.6} _{-0.6}	4.0 ^{+1.3} _{-1.3}	85 ⁺²⁶ ₋₂₆	1428	7.53 ^{+0.12} _{-0.12}	29.75 ^{+0.16} _{-0.16}	3.36E+37	1.77E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
641	58725.881060150	565.4 ^{+0.8} _{-0.8}	1.8 ^{+0.3} _{-0.3}	136 ⁺¹⁰ ₋₁₀	1410	84.73 ^{+11.73} _{-11.73}	149.97 ^{+3.99} _{-3.99}	1.61E+38	4.27E+36
642	58725.881060189	565.4 ^{+0.8} _{-0.8}	2.9 ^{+0.4} _{-0.4}	203 ⁺²¹ ₋₂₁	1362	90.80 ^{+9.41} _{-9.41}	266.04 ^{+4.14} _{-4.14}	2.85E+38	4.43E+36
643	58725.882648051	562.9 ^{+1.3} _{-1.3}	6.3 ^{+0.9} _{-0.9}	120 ⁺⁴ ₋₄	1274	6.50 ^{+0.10} _{-0.10}	40.68 ^{+0.71} _{-0.71}	4.35E+37	7.59E+35
644	58725.883344361	562.9 ^{+1.2} _{-1.2}	6.0 ^{+2.1} _{-2.1}	124 ⁺²² ₋₂₂	1320	10.09 ^{+0.15} _{-0.15}	60.11 ^{+0.32} _{-0.32}	6.79E+37	3.59E+35
645	58725.883620970	564.4 ^{+1.0} _{-1.0}	3.3 ^{+0.8} _{-0.8}	54 ⁺⁴⁵ ₋₄₅	1396	13.03 ^{+0.20} _{-0.20}	43.43 ^{+0.15} _{-0.15}	4.91E+37	1.72E+35
646	58725.884086035	563.1 ^{+1.3} _{-1.3}	5.9 ^{+2.5} _{-2.5}	72 ⁺⁴ ₋₄	1391	7.08 ^{+0.11} _{-0.11}	41.55 ^{+0.27} _{-0.27}	4.70E+37	3.00E+35
647	58725.884962302	563.7 ^{+1.2} _{-1.2}	5.9 ^{+2.0} _{-2.0}	37 ⁺⁶ ₋₆	1099	6.88 ^{+0.10} _{-0.10}	40.44 ^{+0.20} _{-0.20}	4.57E+37	2.31E+35
648	58725.885625517	563.8 ^{+0.9} _{-0.9}	1.9 ^{+1.0} _{-1.0}	250 ⁺⁷³ ₋₇₃	1289	4.88 ^{+0.07} _{-0.07}	9.08 ^{+0.07} _{-0.07}	1.03E+37	8.26E+34
649	58725.885625563	563.3 ^{+1.0} _{-1.0}	5.9 ^{+1.7} _{-1.7}	56 ⁺⁷¹ ₋₇₁	1351	10.38 ^{+0.15} _{-0.15}	61.50 ^{+0.27} _{-0.27}	6.95E+37	3.00E+35
650	58725.885963691	564.7 ^{+0.5} _{-0.5}	6.1 ^{+1.1} _{-1.1}	70 ⁺⁵¹ ₋₅₁	1228	12.01 ^{+0.17} _{-0.17}	73.16 ^{+0.20} _{-0.20}	8.26E+37	2.21E+35
651	58725.886408698	563.3 ^{+1.2} _{-1.2}	3.7 ^{+0.9} _{-0.9}	53 ⁺⁴ ₋₄	1387	8.70 ^{+0.13} _{-0.13}	32.46 ^{+0.12} _{-0.12}	3.67E+37	1.35E+35
652	58725.886510047	563.8 ^{+1.3} _{-1.3}	3.8 ^{+0.6} _{-0.6}	49 ⁺³³ ₋₃₃	1370	14.54 ^{+0.21} _{-0.21}	55.87 ^{+0.92} _{-0.92}	5.98E+37	9.89E+35
653	58725.886614969	560.8 ^{+0.4} _{-0.4}	3.2 ^{+0.2} _{-0.2}	205 ⁺⁹ ₋₉	1396	144.65 ^{+8.24} _{-8.24}	459.99 ^{+1.73} _{-1.73}	4.92E+38	1.85E+36
654	58725.886719490	563.3 ^{+1.3} _{-1.3}	2.6 ^{+0.6} _{-0.6}	143 ⁺⁴¹ ₋₄₁	1320	11.42 ^{+0.16} _{-0.16}	30.16 ^{+0.10} _{-0.10}	3.41E+37	1.10E+35
655	58725.886888515	562.9 ^{+1.2} _{-1.2}	8.2 ^{+2.6} _{-2.6}	177 ⁺¹⁶³ ₋₁₆₃	1338	8.83 ^{+0.13} _{-0.13}	72.79 ^{+0.33} _{-0.33}	8.22E+37	3.73E+35
656	58725.886888765	563.3 ^{+1.2} _{-1.2}	5.0 ^{+2.0} _{-2.0}	92 ⁺⁴⁵ ₋₄₅	1313	6.57 ^{+0.10} _{-0.10}	33.11 ^{+0.19} _{-0.19}	3.74E+37	2.11E+35
657	58725.887637535	563.6 ^{+1.0} _{-1.0}	8.1 ^{+2.5} _{-2.5}	235 ⁺¹¹¹ ₋₁₁₁	1258	8.79 ^{+0.12} _{-0.12}	70.93 ^{+0.31} _{-0.31}	8.01E+37	3.47E+35
658	58725.887932508	562.7 ^{+1.2} _{-1.2}	2.4 ^{+0.5} _{-0.5}	69 ⁺³¹ ₋₃₁	1391	13.64 ^{+0.19} _{-0.19}	32.82 ^{+0.09} _{-0.09}	3.71E+37	1.02E+35
659	58725.888510417	563.2 ^{+0.6} _{-0.6}	3.5 ^{+0.5} _{-0.5}	209 ⁺²⁶ ₋₂₆	1120	33.86 ^{+0.47} _{-0.47}	117.49 ^{+1.88} _{-1.88}	1.26E+38	2.01E+36
660	58725.888510432	563.2 ^{+0.6} _{-0.6}	3.4 ^{+0.2} _{-0.2}	220 ⁺²⁸ ₋₂₈	1120	132.81 ^{+7.60} _{-7.60}	456.87 ^{+1.75} _{-1.75}	4.89E+38	1.87E+36
661	58725.888529336	562.1 ^{+0.6} _{-0.6}	11.1 ^{+3.6} _{-3.6}	107 ⁺⁸⁵ ₋₈₅	1195	9.43 ^{+0.13} _{-0.13}	104.49 ^{+0.48} _{-0.48}	1.18E+38	5.43E+35
662	58725.888955939	562.8 ^{+1.1} _{-1.1}	3.0 ^{+0.4} _{-0.4}	168 ⁺¹² ₋₁₂	1371	33.25 ^{+0.46} _{-0.46}	100.14 ^{+1.59} _{-1.59}	1.07E+38	1.70E+36
663	58725.888955941	562.8 ^{+1.1} _{-1.1}	2.8 ^{+0.2} _{-0.2}	86 ⁺¹³ ₋₁₃	1195	122.03 ^{+8.84} _{-8.84}	345.34 ^{+2.12} _{-2.12}	3.70E+38	2.27E+36
664	58725.888956273	562.7 ^{+1.0} _{-1.0}	5.4 ^{+1.3} _{-1.3}	63 ⁺⁵⁹ ₋₅₉	1185	12.35 ^{+0.17} _{-0.17}	66.42 ^{+0.23} _{-0.23}	7.51E+37	2.57E+35
665	58725.889381077	562.7 ^{+1.3} _{-1.3}	2.8 ^{+2.0} _{-2.0}	171 ⁺³³ ₋₃₃	1364	4.14 ^{+0.06} _{-0.06}	11.53 ^{+0.12} _{-0.12}	1.30E+37	1.30E+35
666	58725.889381572	561.2 ^{+0.8} _{-0.8}	3.0 ^{+1.3} _{-1.3}	111 ⁺¹¹ ₋₁₁	1356	7.01 ^{+0.10} _{-0.10}	20.79 ^{+0.13} _{-0.13}	2.35E+37	1.42E+35
667	58725.889473141	565.0 ^{+0.8} _{-0.8}	7.4 ^{+1.1} _{-1.1}	284 ⁺⁶⁵ ₋₆₅	1172	21.73 ^{+0.30} _{-0.30}	160.12 ^{+2.52} _{-2.52}	1.71E+38	2.70E+36
668	58725.889473147	565.0 ^{+0.8} _{-0.8}	4.0 ^{+0.3} _{-0.3}	311 ⁺³⁴ ₋₃₄	1161	105.27 ^{+7.47} _{-7.47}	418.97 ^{+2.47} _{-2.47}	4.49E+38	2.64E+36
669	58725.889873262	562.9 ^{+1.1} _{-1.1}	4.9 ^{+2.7} _{-2.7}	86 ⁺³² ₋₃₂	1373	5.04 ^{+0.07} _{-0.07}	24.91 ^{+0.18} _{-0.18}	2.81E+37	2.09E+35
670	58725.890173694	562.1 ^{+1.1} _{-1.1}	7.1 ^{+1.8} _{-1.8}	89 ⁺⁴³ ₋₄₃	1215	12.51 ^{+0.17} _{-0.17}	89.39 ^{+0.31} _{-0.31}	1.01E+38	3.45E+35
671	58725.890173727	562.8 ^{+1.2} _{-1.2}	4.7 ^{+1.0} _{-1.0}	75 ⁺⁴ ₋₄	1181	10.93 ^{+0.15} _{-0.15}	51.47 ^{+0.15} _{-0.15}	5.81E+37	1.70E+35
672	58725.890301714	563.3 ^{+1.3} _{-1.3}	2.0 ^{+0.2} _{-0.2}	186 ⁺¹³ ₋₁₃	1370	144.07 ^{+10.34} _{-10.34}	292.46 ^{+1.76} _{-1.76}	3.13E+38	1.88E+36
673	58725.890563862	564.4 ^{+1.0} _{-1.0}	4.9 ^{+1.8} _{-1.8}	97 ⁺³¹ ₋₃₁	1419	7.11 ^{+0.10} _{-0.10}	34.52 ^{+0.17} _{-0.17}	3.90E+37	1.95E+35
674	58725.891243797	563.3 ^{+0.5} _{-0.5}	4.1 ^{+1.2} _{-1.2}	103 ⁺⁵ ₋₅	1365	10.63 ^{+0.14} _{-0.14}	43.17 ^{+0.16} _{-0.16}	4.88E+37	1.86E+35
675	58725.891587818	564.7 ^{+0.5} _{-0.5}	4.4 ^{+0.6} _{-0.6}	130 ⁺³³ ₋₃₃	1333	62.65 ^{+6.76} _{-6.76}	278.17 ^{+3.79} _{-3.79}	2.98E+38	4.05E+36
676	58725.892245337	562.3 ^{+1.1} _{-1.1}	5.0 ^{+1.9} _{-1.9}	64 ⁺⁴ ₋₄	1081	8.08 ^{+0.11} _{-0.11}	40.34 ^{+0.21} _{-0.21}	4.56E+37	2.33E+35
677	58725.892744899	562.7 ^{+1.3} _{-1.3}	8.2 ^{+2.2} _{-2.2}	51 ⁺¹⁵ ₋₁₅	1122	6.48 ^{+0.09} _{-0.09}	53.13 ^{+0.19} _{-0.19}	6.00E+37	2.13E+35
678	58725.893588177	562.5 ^{+0.8} _{-0.8}	9.0 ^{+3.8} _{-3.8}	49 ⁺⁷ ₋₇	1413	5.92 ^{+0.08} _{-0.08}	53.32 ^{+0.29} _{-0.29}	6.03E+37	3.27E+35
679	58725.894046182	562.7 ^{+1.0} _{-1.0}	3.1 ^{+0.3} _{-0.3}	202 ⁺⁷ ₋₇	1390	97.59 ^{+7.85} _{-7.85}	304.48 ^{+2.28} _{-2.28}	3.26E+38	2.44E+36
680	58725.894211194	563.7 ^{+1.2} _{-1.2}	6.7 ^{+1.2} _{-1.2}	268 ⁺²¹ ₋₂₁	1351	15.39 ^{+0.20} _{-0.20}	103.59 ^{+0.24} _{-0.24}	1.17E+38	2.75E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
681	58725.894806381	563.0 ^{+1.3} _{-1.3}	4.6 ^{+1.3} _{-1.3}	89 ⁺³⁸ ₋₃₈	1154	10.02 ^{+0.13} _{-0.13}	46.56 ^{+0.16} _{-0.16}	5.26E+37	1.83E+35
682	58725.895188019	564.4 ^{+0.9} _{-0.9}	5.7 ^{+0.7} _{-0.7}	51 ⁺²³ ₋₂₃	1399	12.57 ^{+0.16} _{-0.16}	71.16 ^{+0.11} _{-0.11}	8.04E+37	1.24E+35
683	58725.895190113	562.6 ^{+1.1} _{-1.1}	6.1 ^{+1.5} _{-1.5}	57 ⁺⁸ ₋₈	1172	9.70 ^{+0.12} _{-0.12}	59.31 ^{+0.18} _{-0.18}	6.70E+37	2.02E+35
684	58725.895629739	564.0 ^{+0.9} _{-0.9}	3.9 ^{+0.9} _{-0.9}	109 ⁺⁴² ₋₄₂	1223	11.63 ^{+0.15} _{-0.15}	45.47 ^{+0.12} _{-0.12}	5.14E+37	1.41E+35
685	58725.897825193	562.2 ^{+1.3} _{-1.3}	3.7 ^{+0.5} _{-0.5}	138 ⁺⁵⁵ ₋₅₅	1370	20.89 ^{+0.25} _{-0.25}	76.55 ^{+1.05} _{-1.05}	8.19E+37	1.13E+36
686	58725.898076193	563.6 ^{+0.9} _{-0.9}	2.6 ^{+0.5} _{-0.5}	65 ⁺¹⁵ ₋₁₅	1404	9.57 ^{+0.12} _{-0.12}	25.30 ^{+0.05} _{-0.05}	2.86E+37	6.11E+34
687	58725.899241717	563.1 ^{+1.2} _{-1.2}	8.7 ^{+2.1} _{-2.1}	143 ⁺³² ₋₃₂	1256	9.92 ^{+0.12} _{-0.12}	86.53 ^{+0.24} _{-0.24}	9.78E+37	2.74E+35
688	58725.899395310	564.3 ^{+0.6} _{-0.6}	3.6 ^{+0.7} _{-0.7}	115 ⁺⁵² ₋₅₂	1408	13.19 ^{+0.16} _{-0.16}	46.98 ^{+0.11} _{-0.11}	5.31E+37	1.19E+35
689	58725.899632908	562.7 ^{+1.4} _{-1.4}	8.9 ^{+1.3} _{-1.3}	27 ⁺¹⁴ ₋₁₄	1362	11.46 ^{+0.14} _{-0.14}	101.73 ^{+1.37} _{-1.37}	1.09E+38	1.47E+36
690	58725.900066688	563.4 ^{+1.3} _{-1.3}	4.3 ^{+1.2} _{-1.2}	68 ⁺⁴⁴ ₋₄₄	1404	7.76 ^{+0.09} _{-0.09}	33.46 ^{+0.11} _{-0.11}	3.78E+37	1.21E+35
691	58725.900124922	562.8 ^{+1.3} _{-1.3}	5.0 ^{+1.7} _{-1.7}	195 ⁺⁵⁶ ₋₅₆	1268	6.32 ^{+0.07} _{-0.07}	31.38 ^{+0.12} _{-0.12}	3.55E+37	1.38E+35
692	58725.900617839	563.6 ^{+1.4} _{-1.4}	6.6 ^{+1.2} _{-1.2}	87 ⁺²⁶ ₋₂₆	1158	12.73 ^{+0.15} _{-0.15}	83.83 ^{+0.18} _{-0.18}	9.47E+37	2.01E+35
693	58725.900829685	562.2 ^{+1.2} _{-1.2}	9.3 ^{+2.9} _{-2.9}	73 ⁺²⁵ ₋₂₅	1154	6.77 ^{+0.08} _{-0.08}	63.22 ^{+0.23} _{-0.23}	7.14E+37	2.54E+35
694	58725.900841748	562.3 ^{+1.4} _{-1.4}	6.0 ^{+1.3} _{-1.3}	200 ⁺¹⁶³ ₋₁₆₃	1335	12.10 ^{+0.14} _{-0.14}	72.51 ^{+0.18} _{-0.18}	8.19E+37	2.03E+35
695	58725.900864478	564.0 ^{+1.0} _{-1.0}	3.5 ^{+0.3} _{-0.3}	102 ⁺³⁰ ₋₃₀	1325	19.93 ^{+0.23} _{-0.23}	68.76 ^{+0.07} _{-0.07}	7.77E+37	8.10E+34
696	58725.900954801	562.5 ^{+1.1} _{-1.1}	4.4 ^{+1.0} _{-1.0}	98 ⁺²³ ₋₂₃	1329	9.72 ^{+0.11} _{-0.11}	42.89 ^{+0.11} _{-0.11}	4.85E+37	1.24E+35
697	58725.900954916	562.3 ^{+1.3} _{-1.3}	5.6 ^{+3.5} _{-3.5}	88 ⁺⁴⁸ ₋₄₈	1285	4.97 ^{+0.06} _{-0.06}	27.82 ^{+0.20} _{-0.20}	3.14E+37	2.27E+35
698	58725.900955320	563.1 ^{+1.2} _{-1.2}	6.9 ^{+2.1} _{-2.1}	178 ⁺⁸⁰ ₋₈₀	1290	6.22 ^{+0.07} _{-0.07}	42.97 ^{+0.15} _{-0.15}	4.85E+37	1.66E+35
699	58725.901321914	562.3 ^{+1.2} _{-1.2}	3.6 ^{+0.5} _{-0.5}	133 ⁺⁴⁰ ₋₄₀	1384	13.22 ^{+0.15} _{-0.15}	47.09 ^{+0.08} _{-0.08}	5.32E+37	8.73E+34
700	58725.901591412	563.4 ^{+1.3} _{-1.3}	4.9 ^{+0.7} _{-0.7}	77 ⁺²⁷ ₋₂₇	1441	13.06 ^{+0.15} _{-0.15}	64.24 ^{+0.84} _{-0.84}	6.88E+37	8.98E+35
701	58725.901708826	563.1 ^{+1.4} _{-1.4}	5.6 ^{+0.7} _{-0.7}	112 ⁺¹³ ₋₁₃	1420	10.37 ^{+0.12} _{-0.12}	57.82 ^{+0.08} _{-0.08}	6.53E+37	8.82E+34
702	58725.901866528	564.2 ^{+0.7} _{-0.7}	2.9 ^{+0.2} _{-0.2}	245 ⁺⁴⁸ ₋₄₈	1301	184.07 ^{+7.79} _{-7.79}	539.33 ^{+1.17} _{-1.17}	5.77E+38	1.25E+36
703	58725.901866543	564.2 ^{+0.7} _{-0.7}	3.3 ^{+0.5} _{-0.5}	271 ⁺⁵⁶ ₋₅₆	1227	44.47 ^{+0.50} _{-0.50}	148.49 ^{+1.92} _{-1.92}	1.59E+38	2.05E+36
704	58725.902530623	563.5 ^{+1.2} _{-1.2}	3.4 ^{+0.5} _{-0.5}	106 ⁺²⁰ ₋₂₀	1429	18.75 ^{+0.21} _{-0.21}	63.22 ^{+0.81} _{-0.81}	6.77E+37	8.67E+35
705	58725.902539670	563.6 ^{+1.3} _{-1.3}	6.3 ^{+2.6} _{-2.6}	111 ⁺⁶⁰ ₋₆₀	1176	7.17 ^{+0.08} _{-0.08}	45.42 ^{+0.21} _{-0.21}	5.13E+37	2.34E+35
706	58725.902539752	564.0 ^{+1.3} _{-1.3}	1.6 ^{+0.1} _{-0.1}	156 ⁺⁶ ₋₆	1163	169.74 ^{+10.49} _{-10.49}	273.28 ^{+1.26} _{-1.26}	2.93E+38	1.35E+36
707	58725.902539762	564.0 ^{+1.3} _{-1.3}	1.9 ^{+0.3} _{-0.3}	179 ⁺¹⁴ ₋₁₄	1358	38.47 ^{+0.43} _{-0.43}	73.03 ^{+0.93} _{-0.93}	7.82E+37	1.00E+36
708	58725.903190937	563.2 ^{+1.3} _{-1.3}	5.9 ^{+2.4} _{-2.4}	341 ⁺¹⁵⁶ ₋₁₅₆	1208	5.45 ^{+0.06} _{-0.06}	32.03 ^{+0.15} _{-0.15}	3.62E+37	1.66E+35
709	58725.903289411	563.8 ^{+1.0} _{-1.0}	3.5 ^{+0.5} _{-0.5}	223 ⁺²⁸ ₋₂₈	1326	27.98 ^{+0.31} _{-0.31}	97.44 ^{+1.23} _{-1.23}	1.04E+38	1.32E+36
710	58725.903289424	563.8 ^{+1.0} _{-1.0}	4.2 ^{+0.4} _{-0.4}	228 ⁺²⁴ ₋₂₄	1330	90.21 ^{+6.19} _{-6.19}	383.39 ^{+2.17} _{-2.17}	4.10E+38	2.32E+36
711	58725.903354725	563.0 ^{+0.9} _{-0.9}	6.0 ^{+2.1} _{-2.1}	75 ⁺⁴ ₋₄	1086	5.17 ^{+0.06} _{-0.06}	30.96 ^{+0.12} _{-0.12}	3.50E+37	1.37E+35
712	58725.903729131	565.0 ^{+0.7} _{-0.7}	7.7 ^{+0.9} _{-0.9}	197 ⁺⁹⁰ ₋₉₀	1332	14.32 ^{+0.16} _{-0.16}	109.91 ^{+0.14} _{-0.14}	1.24E+38	1.62E+35
713	58725.903729287	564.9 ^{+0.9} _{-0.9}	2.5 ^{+1.2} _{-1.2}	50 ⁺³⁰ ₋₃₀	1161	9.95 ^{+0.11} _{-0.11}	24.60 ^{+0.13} _{-0.13}	2.78E+37	1.45E+35
714	58725.903729717	564.6 ^{+1.0} _{-1.0}	3.5 ^{+0.9} _{-0.9}	197 ⁺⁶⁴ ₋₆₄	1132	15.93 ^{+0.17} _{-0.17}	54.99 ^{+0.16} _{-0.16}	6.21E+37	1.77E+35
715	58725.903729886	562.3 ^{+1.2} _{-1.2}	6.4 ^{+1.7} _{-1.7}	202 ⁺²⁵ ₋₂₅	1201	17.04 ^{+0.19} _{-0.19}	109.63 ^{+0.31} _{-0.31}	1.24E+38	3.51E+35
716	58725.903729941	561.3 ^{+0.6} _{-0.6}	3.6 ^{+0.5} _{-0.5}	181 ⁺⁴⁰ ₋₄₀	1288	10.23 ^{+0.11} _{-0.11}	36.87 ^{+0.47} _{-0.47}	3.95E+37	4.99E+35
717	58725.903730380	564.3 ^{+0.6} _{-0.6}	8.4 ^{+1.9} _{-1.9}	78 ⁺¹² ₋₁₂	1259	10.11 ^{+0.11} _{-0.11}	85.12 ^{+0.21} _{-0.21}	9.62E+37	2.41E+35
718	58725.903730894	563.7 ^{+1.1} _{-1.1}	2.1 ^{+0.7} _{-0.7}	88 ⁺¹³ ₋₁₃	1113	5.83 ^{+0.06} _{-0.06}	12.06 ^{+0.05} _{-0.05}	1.36E+37	5.33E+34
719	58725.903907667	562.0 ^{+0.7} _{-0.7}	1.2 ^{+0.1} _{-0.1}	152 ⁺⁷ ₋₇	1410	162.74 ^{+12.04} _{-12.04}	195.29 ^{+1.20} _{-1.20}	2.09E+38	1.29E+36
720	58725.903907756	562.5 ^{+0.3} _{-0.3}	3.1 ^{+1.0} _{-1.0}	74 ⁺⁵ ₋₅	1386	7.78 ^{+0.09} _{-0.09}	23.73 ^{+0.08} _{-0.08}	2.68E+37	9.37E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
721	58725.904016409	562.9 ^{+1.3} _{-1.3}	3.5 ^{+0.8} _{-0.8}	58 ⁺⁸ ₋₈	1441	10.01 ^{+0.11} _{-0.11}	34.55 ^{+0.09} _{-0.09}	3.90E+37	9.63E+34
722	58725.904274472	564.2 ^{+0.5} _{-0.5}	11.7 ^{+1.7} _{-1.7}	156 ⁺⁶⁷ ₋₆₇	1342	8.14 ^{+0.09} _{-0.09}	94.81 ^{+1.19} _{-1.19}	1.01E+38	1.27E+36
723	58725.905759975	564.3 ^{+0.8} _{-0.8}	3.4 ^{+0.4} _{-0.4}	104 ⁺¹⁴ ₋₁₄	1430	16.88 ^{+0.18} _{-0.18}	57.11 ^{+0.08} _{-0.08}	6.45E+37	8.77E+34
724	58725.906374558	563.6 ^{+1.2} _{-1.2}	3.7 ^{+0.6} _{-0.6}	71 ⁺¹⁴ ₋₁₄	1057	7.58 ^{+0.08} _{-0.08}	27.98 ^{+0.04} _{-0.04}	3.16E+37	5.04E+34
725	58725.906580800	563.2 ^{+1.3} _{-1.3}	3.5 ^{+0.9} _{-0.9}	66 ⁺³⁴ ₋₃₄	1420	6.86 ^{+0.07} _{-0.07}	24.13 ^{+0.06} _{-0.06}	2.73E+37	7.09E+34
726	58725.907210500	562.5 ^{+1.2} _{-1.2}	5.9 ^{+1.6} _{-1.6}	81 ⁺²⁰ ₋₂₀	1439	9.39 ^{+0.10} _{-0.10}	55.69 ^{+0.16} _{-0.16}	6.29E+37	1.79E+35
727	58725.907526169	564.0 ^{+1.1} _{-1.1}	4.0 ^{+0.4} _{-0.4}	155 ⁺²⁰ ₋₂₀	1313	17.74 ^{+0.18} _{-0.18}	71.02 ^{+0.08} _{-0.08}	8.03E+37	9.19E+34
728	58725.907656724	565.0 ^{+0.8} _{-0.8}	6.8 ^{+2.4} _{-2.4}	73 ⁺³¹ ₋₃₁	1386	7.18 ^{+0.07} _{-0.07}	48.86 ^{+0.17} _{-0.17}	5.52E+37	1.98E+35
729	58725.908450671	563.3 ^{+1.3} _{-1.3}	7.1 ^{+1.2} _{-1.2}	63 ⁺⁴¹ ₋₄₁	1348	10.23 ^{+0.10} _{-0.10}	72.37 ^{+0.13} _{-0.13}	8.18E+37	1.42E+35
730	58725.909090851	564.6 ^{+1.1} _{-1.1}	2.7 ^{+0.3} _{-0.3}	129 ⁺⁷ ₋₇	1388	17.14 ^{+0.17} _{-0.17}	45.88 ^{+0.06} _{-0.06}	5.18E+37	6.65E+34
731	58725.909694172	563.7 ^{+1.1} _{-1.1}	6.3 ^{+1.7} _{-1.7}	62 ⁺¹³ ₋₁₃	1329	5.77 ^{+0.06} _{-0.06}	36.57 ^{+0.10} _{-0.10}	4.13E+37	1.14E+35
732	58725.909772779	562.3 ^{+1.1} _{-1.1}	5.8 ^{+1.3} _{-1.3}	121 ⁺⁵⁴ ₋₅₄	1379	8.29 ^{+0.08} _{-0.08}	48.36 ^{+0.11} _{-0.11}	5.46E+37	1.22E+35
733	58725.910401558	561.5 ^{+0.9} _{-0.9}	2.0 ^{+1.4} _{-1.4}	51 ⁺⁵ ₋₅	1401	5.13 ^{+0.05} _{-0.05}	10.42 ^{+0.07} _{-0.07}	1.18E+37	7.79E+34
734	58725.910401727	561.3 ^{+1.1} _{-1.1}	6.0 ^{+1.3} _{-1.3}	62 ⁺¹⁵ ₋₁₅	1364	9.19 ^{+0.09} _{-0.09}	54.90 ^{+0.12} _{-0.12}	6.20E+37	1.35E+35
735	58725.910589468	563.3 ^{+1.3} _{-1.3}	3.7 ^{+1.1} _{-1.1}	172 ⁺⁹⁰ ₋₉₀	1341	5.53 ^{+0.05} _{-0.05}	20.25 ^{+0.06} _{-0.06}	2.29E+37	6.54E+34
736	58725.910822986	564.8 ^{+0.7} _{-0.7}	2.7 ^{+0.3} _{-0.3}	50 ⁺²¹ ₋₂₁	1361	18.77 ^{+0.18} _{-0.18}	49.78 ^{+0.06} _{-0.06}	5.62E+37	6.69E+34
737	58725.911498877	563.3 ^{+1.2} _{-1.2}	5.9 ^{+1.0} _{-1.0}	70 ⁺⁵² ₋₅₂	1129	9.30 ^{+0.09} _{-0.09}	54.85 ^{+0.09} _{-0.09}	6.20E+37	1.01E+35
738	58725.913328018	564.7 ^{+0.9} _{-0.9}	4.5 ^{+0.6} _{-0.6}	101 ⁺³⁰ ₋₃₀	1329	14.51 ^{+0.19} _{-0.19}	65.11 ^{+0.10} _{-0.10}	7.36E+37	1.17E+35
739	58725.914294277	562.8 ^{+1.1} _{-1.1}	6.9 ^{+1.7} _{-1.7}	77 ⁺²⁷ ₋₂₇	1423	7.93 ^{+0.10} _{-0.10}	54.94 ^{+0.17} _{-0.17}	6.21E+37	1.90E+35
740	58725.914784577	562.6 ^{+1.4} _{-1.4}	4.1 ^{+0.8} _{-0.8}	69 ⁺⁴⁵ ₋₄₅	1369	10.14 ^{+0.13} _{-0.13}	41.79 ^{+0.11} _{-0.11}	4.72E+37	1.25E+35
741	58725.915259345	563.9 ^{+1.1} _{-1.1}	3.9 ^{+0.5} _{-0.5}	61 ⁺²⁹ ₋₂₉	1410	15.89 ^{+0.20} _{-0.20}	61.87 ^{+0.10} _{-0.10}	6.99E+37	1.09E+35
742	58725.915999212	563.1 ^{+1.1} _{-1.1}	1.9 ^{+0.3} _{-0.3}	56 ⁺¹⁰ ₋₁₀	1349	13.37 ^{+0.17} _{-0.17}	25.79 ^{+0.04} _{-0.04}	2.91E+37	5.04E+34
743	58725.916410714	563.5 ^{+1.1} _{-1.1}	5.9 ^{+0.8} _{-0.8}	122 ⁺¹⁴⁶ ₋₁₄₆	1409	18.22 ^{+0.23} _{-0.23}	107.26 ^{+1.54} _{-1.54}	1.15E+38	1.64E+36
744	58725.916641863	562.8 ^{+1.1} _{-1.1}	7.9 ^{+2.2} _{-2.2}	65 ⁺³⁸ ₋₃₈	1294	5.75 ^{+0.07} _{-0.07}	45.19 ^{+0.16} _{-0.16}	5.11E+37	1.79E+35
745	58725.916999423	564.4 ^{+0.9} _{-0.9}	3.1 ^{+0.5} _{-0.5}	100 ⁺¹⁹ ₋₁₉	1406	13.52 ^{+0.17} _{-0.17}	41.27 ^{+0.08} _{-0.08}	4.66E+37	8.79E+34
746	58725.917072248	561.3 ^{+0.6} _{-0.6}	8.7 ^{+2.2} _{-2.2}	58 ⁺⁴⁹ ₋₄₉	1359	7.48 ^{+0.09} _{-0.09}	64.97 ^{+0.21} _{-0.21}	7.34E+37	2.38E+35
747	58725.917083490	562.3 ^{+0.6} _{-0.6}	4.3 ^{+0.6} _{-0.6}	51 ⁺¹² ₋₁₂	1452	7.50 ^{+0.09} _{-0.09}	31.95 ^{+0.46} _{-0.46}	3.42E+37	4.91E+35
748	58725.917218836	563.2 ^{+1.1} _{-1.1}	3.4 ^{+0.5} _{-0.5}	98 ⁺²⁹ ₋₂₉	1217	9.40 ^{+0.12} _{-0.12}	31.78 ^{+0.45} _{-0.45}	3.40E+37	4.85E+35
749	58725.917399537	563.2 ^{+1.2} _{-1.2}	5.8 ^{+2.2} _{-2.2}	122 ⁺⁵⁰ ₋₅₀	1211	4.83 ^{+0.06} _{-0.06}	27.74 ^{+0.13} _{-0.13}	3.14E+37	1.50E+35
750	58725.918252748	563.4 ^{+0.8} _{-0.8}	2.1 ^{+0.3} _{-0.3}	144 ⁺⁹⁹ ₋₉₉	1240	15.26 ^{+0.19} _{-0.19}	31.91 ^{+0.05} _{-0.05}	3.61E+37	5.81E+34
751	58725.918299625	563.1 ^{+1.2} _{-1.2}	2.0 ^{+0.6} _{-0.6}	135 ⁺⁹⁶ ₋₉₆	1164	5.67 ^{+0.07} _{-0.07}	11.24 ^{+0.04} _{-0.04}	1.27E+37	4.83E+34
752	58725.918299925	562.1 ^{+1.3} _{-1.3}	6.9 ^{+2.0} _{-2.0}	75 ⁺¹¹ ₋₁₁	1075	7.99 ^{+0.10} _{-0.10}	55.36 ^{+0.20} _{-0.20}	6.26E+37	2.24E+35
753	58725.918505175	561.8 ^{+0.7} _{-0.7}	3.4 ^{+0.5} _{-0.5}	152 ⁺³⁶ ₋₃₆	1095	14.15 ^{+0.17} _{-0.17}	47.75 ^{+0.68} _{-0.68}	5.11E+37	7.23E+35
754	58725.918925834	564.6 ^{+0.4} _{-0.4}	2.8 ^{+0.5} _{-0.5}	78 ⁺²³ ₋₂₃	1378	13.21 ^{+0.17} _{-0.17}	36.39 ^{+0.07} _{-0.07}	4.11E+37	8.46E+34
755	58725.919325868	563.0 ^{+1.2} _{-1.2}	8.1 ^{+2.5} _{-2.5}	270 ⁺¹⁵⁷ ₋₁₅₇	1209	6.24 ^{+0.08} _{-0.08}	50.57 ^{+0.19} _{-0.19}	5.71E+37	2.14E+35
756	58725.919767010	563.6 ^{+1.2} _{-1.2}	3.5 ^{+0.5} _{-0.5}	61 ⁺⁵ ₋₅	1288	10.22 ^{+0.12} _{-0.12}	36.15 ^{+0.51} _{-0.51}	3.87E+37	5.42E+35
757	58725.920037179	563.2 ^{+1.3} _{-1.3}	3.6 ^{+0.7} _{-0.7}	46 ⁺²⁶ ₋₂₆	1408	7.56 ^{+0.09} _{-0.09}	27.39 ^{+0.07} _{-0.07}	3.09E+37	7.84E+34
758	58725.920652958	562.7 ^{+1.2} _{-1.2}	4.6 ^{+1.7} _{-1.7}	105 ⁺³⁶ ₋₃₆	1396	6.90 ^{+0.09} _{-0.09}	31.55 ^{+0.15} _{-0.15}	3.57E+37	1.66E+35
759	58725.921064357	561.3 ^{+0.2} _{-0.2}	2.6 ^{+0.7} _{-0.7}	251 ⁺¹⁷ ₋₁₇	1365	17.25 ^{+0.21} _{-0.21}	45.16 ^{+0.15} _{-0.15}	5.10E+37	1.69E+35
760	58725.921123617	562.5 ^{+0.4} _{-0.4}	1.9 ^{+0.1} _{-0.1}	206 ⁺²⁰ ₋₂₀	1394	154.73 ^{+8.37} _{-8.37}	297.08 ^{+1.00} _{-1.00}	3.18E+38	1.08E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
761	58725.921396668	562.8 ^{+0.2} _{-0.2}	4.1 ^{+0.5} _{-0.5}	84 ⁺¹³ ₋₁₃	1379	60.17 ^{+5.80} _{-5.80}	247.30 ^{+2.73} _{-2.73}	2.65E+38	2.92E+36
762	58725.921396775	562.7 ^{+0.2} _{-0.2}	3.7 ^{+0.2} _{-0.2}	188 ⁺⁵ ₋₅	1097	134.23 ^{+6.10} _{-6.10}	496.65 ^{+1.22} _{-1.22}	5.32E+38	1.31E+36
763	58725.921653999	564.7 ^{+0.6} _{-0.6}	4.7 ^{+1.0} _{-1.0}	83 ⁺²⁹ ₋₂₉	1307	9.06 ^{+0.11} _{-0.11}	42.97 ^{+0.11} _{-0.11}	4.86E+37	1.26E+35
764	58725.921740365	563.8 ^{+0.5} _{-0.5}	4.2 ^{+0.7} _{-0.7}	63 ⁺³⁶ ₋₃₆	1404	13.09 ^{+0.16} _{-0.16}	54.76 ^{+0.12} _{-0.12}	6.19E+37	1.34E+35
765	58725.922036932	565.4 ^{+0.5} _{-0.5}	2.4 ^{+0.2} _{-0.2}	165 ⁺³⁸ ₋₃₈	1401	100.32 ^{+7.44} _{-7.44}	242.77 ^{+1.56} _{-1.56}	2.60E+38	1.67E+36
766	58725.923220079	564.4 ^{+1.1} _{-1.1}	4.3 ^{+0.7} _{-0.7}	208 ⁺⁶⁰ ₋₆₀	1378	15.96 ^{+0.19} _{-0.19}	68.36 ^{+0.13} _{-0.13}	7.72E+37	1.43E+35
767	58725.923255830	564.0 ^{+1.0} _{-1.0}	1.9 ^{+0.8} _{-0.8}	52 ⁺⁷ ₋₇	1406	6.25 ^{+0.07} _{-0.07}	11.64 ^{+0.06} _{-0.06}	1.32E+37	6.86E+34
768	58725.923355945	564.6 ^{+1.0} _{-1.0}	3.1 ^{+0.7} _{-0.7}	78 ⁺³⁰ ₋₃₀	1122	13.11 ^{+0.16} _{-0.16}	40.79 ^{+0.12} _{-0.12}	4.61E+37	1.30E+35
769	58725.923866512	563.0 ^{+1.2} _{-1.2}	5.9 ^{+1.7} _{-1.7}	52 ⁺²⁸ ₋₂₈	1368	7.26 ^{+0.09} _{-0.09}	42.84 ^{+0.14} _{-0.14}	4.84E+37	1.62E+35
770	58725.924292282	563.1 ^{+1.3} _{-1.3}	7.1 ^{+2.1} _{-2.1}	73 ⁺⁵⁰ ₋₅₀	1338	6.81 ^{+0.08} _{-0.08}	48.62 ^{+0.17} _{-0.17}	5.49E+37	1.94E+35
771	58725.924605178	563.3 ^{+1.3} _{-1.3}	2.7 ^{+0.6} _{-0.6}	291 ⁺⁴ ₋₄	1270	10.61 ^{+0.13} _{-0.13}	28.66 ^{+0.07} _{-0.07}	3.24E+37	8.33E+34
772	58725.925060329	563.8 ^{+1.2} _{-1.2}	5.8 ^{+1.4} _{-1.4}	251 ⁺⁹⁵ ₋₉₅	1294	10.86 ^{+0.13} _{-0.13}	62.85 ^{+0.18} _{-0.18}	7.10E+37	2.07E+35
773	58725.925305051	563.4 ^{+1.2} _{-1.2}	6.5 ^{+1.7} _{-1.7}	112 ⁺²⁶ ₋₂₆	1416	9.28 ^{+0.11} _{-0.11}	59.92 ^{+0.19} _{-0.19}	6.77E+37	2.17E+35
774	58725.925923215	564.7 ^{+0.9} _{-0.9}	5.6 ^{+1.0} _{-1.0}	107 ⁺³⁵ ₋₃₅	1338	11.56 ^{+0.14} _{-0.14}	64.68 ^{+0.14} _{-0.14}	7.31E+37	1.58E+35
775	58725.925981426	563.4 ^{+1.3} _{-1.3}	6.8 ^{+1.7} _{-1.7}	134 ⁺⁵³ ₋₅₃	1366	9.82 ^{+0.12} _{-0.12}	66.96 ^{+0.19} _{-0.19}	7.57E+37	2.16E+35
776	58725.926150457	562.1 ^{+0.8} _{-0.8}	11.7 ^{+3.7} _{-3.7}	242 ⁺⁹ ₋₉	1298	6.25 ^{+0.07} _{-0.07}	72.94 ^{+0.27} _{-0.27}	8.24E+37	3.03E+35
777	58725.926150911	563.3 ^{+1.1} _{-1.1}	6.3 ^{+1.1} _{-1.1}	89 ⁺³ ₋₃	1297	13.88 ^{+0.16} _{-0.16}	87.55 ^{+0.19} _{-0.19}	9.89E+37	2.11E+35
778	58725.926366420	562.9 ^{+1.3} _{-1.3}	7.5 ^{+1.1} _{-1.1}	92 ⁺³⁰ ₋₃₀	1378	9.65 ^{+0.11} _{-0.11}	72.79 ^{+0.98} _{-0.98}	7.79E+37	1.04E+36
779	58725.926412623	563.6 ^{+1.3} _{-1.3}	3.9 ^{+0.4} _{-0.4}	183 ⁺²⁰ ₋₂₀	1401	18.06 ^{+0.21} _{-0.21}	69.55 ^{+0.09} _{-0.09}	7.86E+37	1.05E+35
780	58725.927088439	561.9 ^{+1.1} _{-1.1}	4.2 ^{+0.8} _{-0.8}	74 ⁺⁵⁶ ₋₅₆	1264	11.05 ^{+0.13} _{-0.13}	46.43 ^{+0.10} _{-0.10}	5.25E+37	1.16E+35
781	58725.927160609	562.4 ^{+1.2} _{-1.2}	1.8 ^{+0.6} _{-0.6}	68 ⁺²⁶³ ₋₂₆₃	1391	5.04 ^{+0.06} _{-0.06}	9.28 ^{+0.04} _{-0.04}	1.05E+37	4.29E+34
782	58725.927468658	563.3 ^{+0.9} _{-0.9}	10.9 ^{+1.6} _{-1.6}	142 ⁺¹⁰ ₋₁₀	1179	19.00 ^{+0.22} _{-0.22}	207.48 ^{+0.35} _{-0.35}	2.34E+38	3.98E+35
783	58725.927945140	563.1 ^{+1.1} _{-1.1}	3.4 ^{+1.2} _{-1.2}	80 ⁺³² ₋₃₂	1428	7.60 ^{+0.09} _{-0.09}	25.59 ^{+0.11} _{-0.11}	2.89E+37	1.20E+35
784	58725.928232849	564.1 ^{+1.0} _{-1.0}	4.3 ^{+2.3} _{-2.3}	87 ⁺²³ ₋₂₃	1411	5.46 ^{+0.06} _{-0.06}	23.26 ^{+0.15} _{-0.15}	2.63E+37	1.67E+35
785	58725.928232989	564.6 ^{+0.8} _{-0.8}	3.8 ^{+0.6} _{-0.6}	182 ⁺¹⁹ ₋₁₉	1402	14.12 ^{+0.16} _{-0.16}	54.16 ^{+0.72} _{-0.72}	5.80E+37	7.66E+35
786	58725.928706860	563.2 ^{+1.3} _{-1.3}	8.4 ^{+2.4} _{-2.4}	77 ⁺⁴ ₋₄	1407	8.83 ^{+0.10} _{-0.10}	74.03 ^{+0.24} _{-0.24}	8.37E+37	2.72E+35
787	58725.928706945	563.0 ^{+1.4} _{-1.4}	5.4 ^{+2.4} _{-2.4}	84 ⁺⁴⁹ ₋₄₉	1386	6.83 ^{+0.08} _{-0.08}	37.21 ^{+0.19} _{-0.19}	4.20E+37	2.15E+35
788	58725.928707324	564.1 ^{+0.6} _{-0.6}	5.8 ^{+1.8} _{-1.8}	86 ⁺¹⁴ ₋₁₄	1362	10.22 ^{+0.12} _{-0.12}	59.60 ^{+0.22} _{-0.22}	6.74E+37	2.44E+35
789	58725.929189141	563.4 ^{+1.3} _{-1.3}	2.6 ^{+0.5} _{-0.5}	194 ⁺⁴⁶ ₋₄₆	1285	11.87 ^{+0.14} _{-0.14}	30.74 ^{+0.07} _{-0.07}	3.47E+37	8.36E+34
790	58725.929490897	564.8 ^{+0.9} _{-0.9}	6.3 ^{+1.7} _{-1.7}	95 ⁺¹⁹ ₋₁₉	1375	8.66 ^{+0.10} _{-0.10}	54.45 ^{+0.17} _{-0.17}	6.15E+37	1.89E+35
791	58725.929491066	563.9 ^{+1.2} _{-1.2}	5.7 ^{+0.8} _{-0.8}	124 ⁺⁴ ₋₄	1389	3.30 ^{+0.04} _{-0.04}	18.85 ^{+0.25} _{-0.25}	2.02E+37	2.66E+35
792	58725.929791158	564.5 ^{+1.2} _{-1.2}	6.1 ^{+0.5} _{-0.5}	191 ⁺³⁶ ₋₃₆	1373	73.38 ^{+4.78} _{-4.78}	449.09 ^{+2.58} _{-2.58}	4.81E+38	2.76E+36
793	58725.929791203	564.5 ^{+1.2} _{-1.2}	13.4 ^{+1.9} _{-1.9}	304 ⁺⁴⁰ ₋₄₀	1265	11.88 ^{+0.14} _{-0.14}	159.43 ^{+2.09} _{-2.09}	1.71E+38	2.24E+36
794	58725.929791242	564.5 ^{+1.2} _{-1.2}	3.4 ^{+0.6} _{-0.6}	262 ⁺⁶⁶ ₋₆₆	1198	47.60 ^{+6.18} _{-6.18}	161.84 ^{+3.58} _{-3.58}	1.73E+38	3.84E+36
795	58725.930192717	563.9 ^{+0.9} _{-0.9}	1.5 ^{+0.4} _{-0.4}	97 ⁺¹⁸ ₋₁₈	1307	11.08 ^{+0.13} _{-0.13}	17.14 ^{+0.05} _{-0.05}	1.94E+37	5.28E+34
796	58725.930420783	563.1 ^{+1.3} _{-1.3}	3.6 ^{+1.9} _{-1.9}	43 ⁺¹⁶ ₋₁₆	1450	4.35 ^{+0.05} _{-0.05}	15.71 ^{+0.09} _{-0.09}	1.78E+37	1.07E+35
797	58725.930717036	563.1 ^{+1.1} _{-1.1}	4.5 ^{+0.7} _{-0.7}	124 ⁺²⁴ ₋₂₄	1131	9.19 ^{+0.10} _{-0.10}	41.74 ^{+0.54} _{-0.54}	4.47E+37	5.78E+35
798	58725.931513875	564.9 ^{+0.7} _{-0.7}	3.3 ^{+0.6} _{-0.6}	106 ⁺³¹ ₋₃₁	1138	12.54 ^{+0.14} _{-0.14}	41.77 ^{+0.09} _{-0.09}	4.72E+37	9.74E+34
799	58725.932175993	562.2 ^{+1.4} _{-1.4}	7.9 ^{+1.1} _{-1.1}	243 ⁺²⁶ ₋₂₆	1344	15.08 ^{+0.17} _{-0.17}	119.24 ^{+1.53} _{-1.53}	1.28E+38	1.64E+36
800	58725.932652708	562.9 ^{+1.3} _{-1.3}	4.1 ^{+0.9} _{-0.9}	47 ⁺²² ₋₂₂	1370	11.80 ^{+0.13} _{-0.13}	48.93 ^{+0.11} _{-0.11}	5.53E+37	1.28E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^{a)}	DM ^{b)}	W _{eff} ^{c)}	Bandwidth ^{d)}	Cntrl freq.	Peak flux	Fluence	Energy ^{e)} _{1.25GHz}	Err.Energy ^{f)} _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
801	58725.933031399	562.0 ^{+0.5} _{-0.5}	5.8 ^{+1.5} _{-1.5}	73 ⁺⁴ ₋₄	1091	7.99 ^{+0.09} _{-0.09}	46.02 ^{+0.14} _{-0.14}	5.20E+37	1.54E+35
802	58725.933238821	564.3 ^{+1.0} _{-1.0}	3.8 ^{+0.5} _{-0.5}	132 ⁺²³ ₋₂₃	1415	13.72 ^{+0.15} _{-0.15}	52.25 ^{+0.66} _{-0.66}	5.59E+37	7.09E+35
803	58725.933543773	562.3 ^{+1.2} _{-1.2}	5.3 ^{+1.2} _{-1.2}	107 ⁺²⁸ ₋₂₈	1392	8.77 ^{+0.10} _{-0.10}	46.44 ^{+0.12} _{-0.12}	5.25E+37	1.35E+35
804	58725.933808098	563.2 ^{+1.4} _{-1.4}	2.7 ^{+0.4} _{-0.4}	125 ⁺²¹ ₋₂₁	1203	8.50 ^{+0.09} _{-0.09}	23.12 ^{+0.29} _{-0.29}	2.48E+37	3.13E+35
805	58725.934420452	563.8 ^{+1.0} _{-1.0}	5.5 ^{+1.3} _{-1.3}	123 ⁺¹⁹ ₋₁₉	1256	7.42 ^{+0.08} _{-0.08}	41.04 ^{+0.11} _{-0.11}	4.64E+37	1.24E+35
806	58725.934698447	561.3 ^{+1.0} _{-1.0}	3.4 ^{+0.7} _{-0.7}	84 ⁺¹⁵ ₋₁₅	1140	10.03 ^{+0.11} _{-0.11}	34.09 ^{+0.08} _{-0.08}	3.85E+37	9.25E+34
807	58725.934711105	565.0 ^{+0.6} _{-0.6}	3.9 ^{+0.7} _{-0.7}	90 ⁺²¹ ₋₂₁	1327	11.90 ^{+0.13} _{-0.13}	46.11 ^{+0.09} _{-0.09}	5.21E+37	1.07E+35
808	58725.935281034	562.8 ^{+0.5} _{-0.5}	2.3 ^{+0.2} _{-0.2}	244 ⁺²² ₋₂₂	1360	17.46 ^{+0.19} _{-0.19}	40.07 ^{+0.04} _{-0.04}	4.53E+37	4.90E+34
809	58725.935298712	564.1 ^{+0.8} _{-0.8}	3.2 ^{+0.7} _{-0.7}	105 ⁺²⁶ ₋₂₆	1403	9.94 ^{+0.11} _{-0.11}	32.03 ^{+0.08} _{-0.08}	3.62E+37	9.02E+34
810	58725.935327266	561.6 ^{+0.9} _{-0.9}	3.1 ^{+0.6} _{-0.6}	47 ⁺⁴ ₋₄	1424	10.93 ^{+0.12} _{-0.12}	33.72 ^{+0.08} _{-0.08}	3.81E+37	8.71E+34
811	58725.935644707	563.2 ^{+0.4} _{-0.4}	3.7 ^{+0.5} _{-0.5}	85 ⁺¹⁴ ₋₁₄	1052	16.54 ^{+0.18} _{-0.18}	60.58 ^{+0.09} _{-0.09}	6.85E+37	9.82E+34
812	58725.936622288	564.2 ^{+1.2} _{-1.2}	3.1 ^{+0.7} _{-0.7}	52 ⁺²⁷ ₋₂₇	1363	7.34 ^{+0.08} _{-0.08}	22.58 ^{+0.06} _{-0.06}	2.55E+37	6.46E+34
813	58725.936796151	563.1 ^{+1.2} _{-1.2}	6.8 ^{+1.9} _{-1.9}	97 ⁺²³ ₋₂₃	1289	7.78 ^{+0.08} _{-0.08}	53.04 ^{+0.16} _{-0.16}	5.99E+37	1.79E+35
814	58725.937354776	564.1 ^{+0.8} _{-0.8}	6.4 ^{+1.3} _{-1.3}	64 ⁺¹⁹ ₋₁₉	1326	9.23 ^{+0.10} _{-0.10}	58.66 ^{+0.13} _{-0.13}	6.63E+37	1.42E+35
815	58725.937362428	563.0 ^{+1.3} _{-1.3}	4.3 ^{+1.0} _{-1.0}	176 ⁺⁸ ₋₈	1336	8.21 ^{+0.09} _{-0.09}	35.50 ^{+0.08} _{-0.08}	4.01E+37	9.45E+34
816	58725.937363210	562.4 ^{+0.4} _{-0.4}	1.7 ^{+0.1} _{-0.1}	224 ⁺¹⁹ ₋₁₉	1367	114.48 ^{+8.43} _{-8.43}	191.18 ^{+1.18} _{-1.18}	2.05E+38	1.26E+36
817	58725.937477764	563.3 ^{+1.2} _{-1.2}	4.8 ^{+1.3} _{-1.3}	131 ⁺⁷¹ ₋₇₁	1263	8.10 ^{+0.09} _{-0.09}	38.57 ^{+0.11} _{-0.11}	4.36E+37	1.30E+35
818	58725.937478023	562.9 ^{+0.5} _{-0.5}	3.2 ^{+2.2} _{-2.2}	267 ⁺⁵ ₋₅	1283	4.16 ^{+0.04} _{-0.04}	13.45 ^{+0.10} _{-0.10}	1.52E+37	1.11E+35
819	58725.937867335	564.1 ^{+1.0} _{-1.0}	3.7 ^{+1.2} _{-1.2}	118 ⁺⁵ ₋₅	1351	7.86 ^{+0.09} _{-0.09}	28.91 ^{+0.11} _{-0.11}	3.27E+37	1.19E+35
820	58725.937867593	562.9 ^{+0.9} _{-0.9}	7.2 ^{+3.0} _{-3.0}	61 ⁺¹⁵ ₋₁₅	1420	6.59 ^{+0.07} _{-0.07}	47.75 ^{+0.21} _{-0.21}	5.40E+37	2.43E+35
821	58725.937868004	563.9 ^{+0.8} _{-0.8}	4.4 ^{+1.9} _{-1.9}	174 ⁺²⁶ ₋₂₆	1324	4.27 ^{+0.05} _{-0.05}	18.66 ^{+0.09} _{-0.09}	2.11E+37	9.87E+34
822	58725.937971362	563.6 ^{+1.2} _{-1.2}	3.7 ^{+0.8} _{-0.8}	51 ⁺²⁵ ₋₂₅	1371	7.76 ^{+0.08} _{-0.08}	28.48 ^{+0.07} _{-0.07}	3.22E+37	7.83E+34
823	58725.938134517	562.6 ^{+1.2} _{-1.2}	4.4 ^{+1.2} _{-1.2}	79 ⁺⁴² ₋₄₂	1345	7.14 ^{+0.08} _{-0.08}	31.75 ^{+0.09} _{-0.09}	3.59E+37	9.98E+34
824	58725.938350566	562.2 ^{+0.3} _{-0.3}	2.6 ^{+0.2} _{-0.2}	378 ⁺¹¹¹ ₋₁₁₁	1280	39.83 ^{+0.42} _{-0.42}	104.61 ^{+0.08} _{-0.08}	1.18E+38	8.69E+34
825	58725.938350660	562.1 ^{+0.2} _{-0.2}	4.8 ^{+0.6} _{-0.6}	177 ⁺⁵¹ ₋₅₁	1273	13.35 ^{+0.14} _{-0.14}	64.47 ^{+0.08} _{-0.08}	7.28E+37	9.39E+34
826	58725.938351791	563.8 ^{+1.0} _{-1.0}	2.6 ^{+0.4} _{-0.4}	65 ⁺¹⁸ ₋₁₈	1099	13.35 ^{+0.14} _{-0.14}	34.27 ^{+0.06} _{-0.06}	3.87E+37	7.24E+34
827	58725.938353075	564.2 ^{+1.2} _{-1.2}	3.3 ^{+1.3} _{-1.3}	82 ⁺⁵ ₋₅	1349	5.70 ^{+0.06} _{-0.06}	18.84 ^{+0.08} _{-0.08}	2.13E+37	8.64E+34
828	58725.938417812	563.3 ^{+1.2} _{-1.2}	4.7 ^{+0.4} _{-0.4}	98 ⁺⁴⁰ ₋₄₀	1276	11.36 ^{+0.12} _{-0.12}	52.91 ^{+0.05} _{-0.05}	5.98E+37	5.73E+34
829	58725.938548438	561.7 ^{+0.8} _{-0.8}	5.3 ^{+1.0} _{-1.0}	52 ⁺²⁶ ₋₂₆	1348	10.79 ^{+0.12} _{-0.12}	57.40 ^{+0.12} _{-0.12}	6.49E+37	1.31E+35
830	58725.938833710	565.2 ^{+0.9} _{-0.9}	2.6 ^{+0.1} _{-0.1}	183 ⁺¹⁴ ₋₁₄	1408	163.74 ^{+6.95} _{-6.95}	422.45 ^{+0.90} _{-0.90}	4.52E+38	9.67E+35
831	58725.938835798	562.1 ^{+0.6} _{-0.6}	28.3 ^{+0.5} _{-0.5}	280 ⁺¹⁹ ₋₁₉	1143	233.25 ^{+3.08} _{-3.08}	6600.98 ^{+1.66} _{-1.66}	7.07E+39	1.78E+36
832	58725.939530081	563.2 ^{+1.3} _{-1.3}	8.1 ^{+1.7} _{-1.7}	182 ⁺³⁷ ₋₃₇	1107	7.50 ^{+0.08} _{-0.08}	60.77 ^{+0.14} _{-0.14}	6.87E+37	1.54E+35
833	58725.940064824	564.4 ^{+0.6} _{-0.6}	8.4 ^{+0.4} _{-0.4}	232 ⁺²⁵ ₋₂₅	1377	81.22 ^{+3.63} _{-3.63}	681.44 ^{+1.60} _{-1.60}	7.29E+38	1.71E+36
834	58725.940080042	563.1 ^{+0.6} _{-0.6}	7.5 ^{+1.8} _{-1.8}	138 ⁺¹⁹ ₋₁₉	1122	12.19 ^{+0.13} _{-0.13}	91.18 ^{+0.23} _{-0.23}	1.03E+38	2.62E+35
835	58725.940244532	564.4 ^{+0.5} _{-0.5}	4.5 ^{+0.6} _{-0.6}	146 ⁺⁴² ₋₄₂	1259	16.34 ^{+0.17} _{-0.17}	73.60 ^{+0.10} _{-0.10}	8.32E+37	1.14E+35
836	58725.940430560	563.0 ^{+1.1} _{-1.1}	4.3 ^{+0.9} _{-0.9}	134 ⁺⁵³ ₋₅₃	1262	9.22 ^{+0.10} _{-0.10}	39.87 ^{+0.08} _{-0.08}	4.51E+37	9.46E+34
837	58725.940633766	563.5 ^{+1.4} _{-1.4}	2.4 ^{+0.4} _{-0.4}	164 ⁺¹⁸ ₋₁₈	1273	9.86 ^{+0.10} _{-0.10}	23.76 ^{+0.04} _{-0.04}	2.68E+37	4.78E+34
838	58725.940634492	563.2 ^{+1.4} _{-1.4}	10.6 ^{+3.1} _{-3.1}	82 ⁺²⁷ ₋₂₇	1428	7.12 ^{+0.07} _{-0.07}	75.49 ^{+0.23} _{-0.23}	8.53E+37	2.60E+35
839	58725.940891940	563.4 ^{+1.3} _{-1.3}	4.2 ^{+1.0} _{-1.0}	147 ⁺³³ ₋₃₃	1400	10.43 ^{+0.11} _{-0.11}	43.80 ^{+0.11} _{-0.11}	4.95E+37	1.19E+35
840	58725.940957564	563.3 ^{+1.0} _{-1.0}	4.3 ^{+1.2} _{-1.2}	51 ⁺¹⁰ ₋₁₀	1383	6.71 ^{+0.07} _{-0.07}	28.61 ^{+0.08} _{-0.08}	3.23E+37	9.16E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
841	58725.941321497	564.2 ^{+0.8} _{-0.8}	1.7 ^{+0.6} _{-0.6}	51 ⁺⁸ ₋₈	1449	6.43 ^{+0.07} _{-0.07}	11.12 ^{+0.04} _{-0.04}	1.26E+37	4.55E+34
842	58725.941321672	563.2 ^{+1.1} _{-1.1}	3.5 ^{+0.9} _{-0.9}	93 ⁺⁴⁹ ₋₄₉	1396	10.36 ^{+0.11} _{-0.11}	35.85 ^{+0.10} _{-0.10}	4.05E+37	1.14E+35
843	58725.941358045	565.3 ^{+0.8} _{-0.8}	3.5 ^{+0.5} _{-0.5}	189 ⁺⁵⁸ ₋₅₈	1274	14.28 ^{+0.15} _{-0.15}	50.30 ^{+0.60} _{-0.60}	5.38E+37	6.43E+35
844	58725.941759722	563.8 ^{+1.0} _{-1.0}	4.0 ^{+0.6} _{-0.6}	64 ⁺¹³ ₋₁₃	1119	12.50 ^{+0.13} _{-0.13}	50.48 ^{+0.60} _{-0.60}	5.40E+37	6.43E+35
845	58725.941990768	564.2 ^{+0.4} _{-0.4}	4.4 ^{+0.8} _{-0.8}	124 ⁺³³ ₋₃₃	1423	7.95 ^{+0.08} _{-0.08}	35.22 ^{+0.06} _{-0.06}	3.98E+37	7.30E+34
846	58725.942140956	563.5 ^{+0.6} _{-0.6}	4.3 ^{+0.8} _{-0.8}	118 ⁺³¹ ₋₃₁	1392	12.71 ^{+0.13} _{-0.13}	54.54 ^{+0.10} _{-0.10}	6.16E+37	1.15E+35
847	58725.942141263	561.0 ^{+0.6} _{-0.6}	3.9 ^{+1.7} _{-1.7}	16 ⁺³ ₋₃	1391	4.06 ^{+0.04} _{-0.04}	15.68 ^{+0.07} _{-0.07}	1.77E+37	8.29E+34
848	58725.942141367	561.6 ^{+0.9} _{-0.9}	3.7 ^{+1.6} _{-1.6}	71 ⁺³ ₋₃	1073	4.22 ^{+0.04} _{-0.04}	15.46 ^{+0.07} _{-0.07}	1.75E+37	7.72E+34
849	58725.942179257	563.2 ^{+0.6} _{-0.6}	3.9 ^{+0.6} _{-0.6}	77 ⁺²⁷ ₋₂₇	1135	17.39 ^{+0.18} _{-0.18}	68.17 ^{+0.81} _{-0.81}	7.30E+37	8.69E+35
850	58725.942421774	564.2 ^{+0.7} _{-0.7}	4.4 ^{+0.6} _{-0.6}	166 ⁺⁸² ₋₈₂	1281	10.68 ^{+0.11} _{-0.11}	46.82 ^{+0.06} _{-0.06}	5.29E+37	6.90E+34
851	58725.942487709	563.3 ^{+1.2} _{-1.2}	7.0 ^{+1.5} _{-1.5}	204 ⁺⁴⁴ ₋₄₄	1242	10.14 ^{+0.10} _{-0.10}	71.35 ^{+0.15} _{-0.15}	8.06E+37	1.75E+35
852	58725.942668720	563.0 ^{+1.3} _{-1.3}	3.6 ^{+0.8} _{-0.8}	57 ⁺¹⁸ ₋₁₈	1099	8.52 ^{+0.09} _{-0.09}	30.33 ^{+0.07} _{-0.07}	3.43E+37	8.11E+34
853	58725.942789518	563.4 ^{+0.7} _{-0.7}	3.8 ^{+0.7} _{-0.7}	111 ⁺²² ₋₂₂	1159	11.60 ^{+0.12} _{-0.12}	44.06 ^{+0.09} _{-0.09}	4.98E+37	9.75E+34
854	58725.942854560	562.8 ^{+1.2} _{-1.2}	4.0 ^{+0.7} _{-0.7}	102 ⁺⁵⁸ ₋₅₈	1126	12.47 ^{+0.13} _{-0.13}	49.38 ^{+0.09} _{-0.09}	5.58E+37	9.99E+34
855	58725.943040978	563.1 ^{+1.3} _{-1.3}	2.4 ^{+0.4} _{-0.4}	120 ⁺⁷ ₋₇	1371	13.01 ^{+0.13} _{-0.13}	31.08 ^{+0.05} _{-0.05}	3.51E+37	5.45E+34
856	58725.943046013	563.6 ^{+1.3} _{-1.3}	4.0 ^{+0.9} _{-0.9}	51 ⁺⁹ ₋₉	1338	7.66 ^{+0.08} _{-0.08}	30.53 ^{+0.07} _{-0.07}	3.45E+37	8.32E+34
857	58725.943096546	565.0 ^{+0.8} _{-0.8}	2.9 ^{+0.4} _{-0.4}	100 ⁺³¹ ₋₃₁	1361	23.41 ^{+0.24} _{-0.24}	67.95 ^{+0.80} _{-0.80}	7.27E+37	8.53E+35
858	58725.943239275	563.2 ^{+1.1} _{-1.1}	4.1 ^{+0.6} _{-0.6}	136 ⁺²⁴ ₋₂₄	1408	13.37 ^{+0.14} _{-0.14}	54.68 ^{+0.09} _{-0.09}	6.18E+37	9.86E+34
859	58725.943344026	563.4 ^{+1.0} _{-1.0}	3.8 ^{+1.0} _{-1.0}	56 ⁺¹⁸ ₋₁₈	1409	8.65 ^{+0.09} _{-0.09}	32.49 ^{+0.09} _{-0.09}	3.67E+37	1.02E+35
860	58725.943532553	563.6 ^{+1.3} _{-1.3}	3.3 ^{+0.9} _{-0.9}	186 ⁺⁵³ ₋₅₃	1318	8.82 ^{+0.09} _{-0.09}	29.31 ^{+0.08} _{-0.08}	3.31E+37	8.83E+34
861	58725.943719643	563.2 ^{+1.1} _{-1.1}	3.7 ^{+0.6} _{-0.6}	118 ⁺⁵ ₋₅	1254	9.65 ^{+0.10} _{-0.10}	35.90 ^{+0.06} _{-0.06}	4.06E+37	6.42E+34
862	58725.943989197	562.9 ^{+1.0} _{-1.0}	4.3 ^{+1.0} _{-1.0}	258 ⁺²⁸ ₋₂₈	1267	7.38 ^{+0.08} _{-0.08}	31.82 ^{+0.08} _{-0.08}	3.60E+37	8.73E+34
863	58725.944048095	564.4 ^{+1.1} _{-1.1}	3.8 ^{+0.4} _{-0.4}	172 ⁺³¹ ₋₃₁	1370	14.37 ^{+0.15} _{-0.15}	55.22 ^{+0.06} _{-0.06}	6.24E+37	7.29E+34
864	58725.944099112	563.9 ^{+1.2} _{-1.2}	2.4 ^{+0.3} _{-0.3}	165 ⁺⁴⁴ ₋₄₄	1382	9.81 ^{+0.10} _{-0.10}	23.68 ^{+0.28} _{-0.28}	2.53E+37	2.96E+35
865	58725.944664190	563.6 ^{+0.5} _{-0.5}	2.5 ^{+0.5} _{-0.5}	73 ⁺¹⁰ ₋₁₀	1069	10.64 ^{+0.11} _{-0.11}	27.05 ^{+0.06} _{-0.06}	3.06E+37	6.27E+34
866	58725.944873141	563.1 ^{+1.3} _{-1.3}	4.3 ^{+1.5} _{-1.5}	171 ⁺⁵⁹ ₋₅₉	1365	5.45 ^{+0.06} _{-0.06}	23.38 ^{+0.09} _{-0.09}	2.64E+37	9.61E+34
867	58725.944873318	563.1 ^{+1.2} _{-1.2}	4.6 ^{+0.8} _{-0.8}	81 ⁺⁵ ₋₅	1399	9.59 ^{+0.10} _{-0.10}	44.03 ^{+0.07} _{-0.07}	4.98E+37	8.23E+34
868	58725.945809827	563.5 ^{+1.2} _{-1.2}	4.0 ^{+1.1} _{-1.1}	47 ⁺¹¹ ₋₁₁	1431	7.58 ^{+0.08} _{-0.08}	29.97 ^{+0.08} _{-0.08}	3.39E+37	9.01E+34
869	58725.945809990	563.8 ^{+1.0} _{-1.0}	2.8 ^{+1.3} _{-1.3}	160 ⁺⁵⁹ ₋₅₉	1156	4.53 ^{+0.04} _{-0.04}	12.67 ^{+0.06} _{-0.06}	1.43E+37	6.86E+34
870	58725.945863419	562.9 ^{+1.3} _{-1.3}	2.6 ^{+0.6} _{-0.6}	334 ⁺⁷⁴ ₋₇₄	1242	10.25 ^{+0.10} _{-0.10}	26.30 ^{+0.06} _{-0.06}	2.97E+37	6.82E+34
871	58725.945998738	562.4 ^{+1.0} _{-1.0}	3.7 ^{+1.3} _{-1.3}	78 ⁺¹⁰ ₋₁₀	1242	7.14 ^{+0.07} _{-0.07}	26.71 ^{+0.09} _{-0.09}	3.02E+37	1.06E+35
872	58725.945999105	563.3 ^{+1.2} _{-1.2}	6.9 ^{+1.0} _{-1.0}	114 ⁺⁴ ₋₄	1190	7.26 ^{+0.07} _{-0.07}	50.03 ^{+0.07} _{-0.07}	5.65E+37	8.17E+34
873	58725.946073778	562.9 ^{+1.2} _{-1.2}	3.1 ^{+0.7} _{-0.7}	87 ⁺³³ ₋₃₃	1425	11.41 ^{+0.12} _{-0.12}	35.41 ^{+0.08} _{-0.08}	4.00E+37	9.55E+34
874	58725.946241143	564.9 ^{+0.4} _{-0.4}	2.2 ^{+0.3} _{-0.3}	77 ⁺¹⁷ ₋₁₇	1411	34.55 ^{+0.35} _{-0.35}	75.94 ^{+0.87} _{-0.87}	8.13E+37	9.31E+35
875	58725.946241368	564.8 ^{+0.6} _{-0.6}	2.8 ^{+0.3} _{-0.3}	112 ⁺³⁴ ₋₃₄	1072	15.27 ^{+0.15} _{-0.15}	42.82 ^{+0.04} _{-0.04}	4.84E+37	4.81E+34
876	58725.946389809	563.9 ^{+0.7} _{-0.7}	2.4 ^{+0.2} _{-0.2}	119 ⁺²³ ₋₂₃	1430	94.99 ^{+7.22} _{-7.22}	223.23 ^{+1.44} _{-1.44}	2.39E+38	1.55E+36
877	58725.946429713	564.2 ^{+1.1} _{-1.1}	4.8 ^{+0.8} _{-0.8}	53 ⁺²⁰ ₋₂₀	1379	13.75 ^{+0.14} _{-0.14}	65.32 ^{+0.11} _{-0.11}	7.38E+37	1.30E+35
878	58725.946498647	564.4 ^{+0.4} _{-0.4}	2.7 ^{+0.3} _{-0.3}	82 ⁺⁴ ₋₄	1359	17.34 ^{+0.17} _{-0.17}	46.14 ^{+0.06} _{-0.06}	5.21E+37	6.47E+34
879	58725.946500665	562.9 ^{+1.3} _{-1.3}	7.4 ^{+2.0} _{-2.0}	67 ⁺³⁸ ₋₃₈	1095	7.31 ^{+0.07} _{-0.07}	54.41 ^{+0.15} _{-0.15}	6.15E+37	1.68E+35
880	58725.946785516	565.2 ^{+1.0} _{-1.0}	2.9 ^{+0.4} _{-0.4}	137 ⁺⁴⁷ ₋₄₇	1285	21.71 ^{+0.22} _{-0.22}	64.04 ^{+0.73} _{-0.73}	6.85E+37	7.80E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
881	58725.946835748	564.4 ^{+0.8} _{-0.8}	4.5 ^{+0.8} _{-0.8}	98 ⁺²¹ ₋₂₁	1093	11.96 ^{+0.12} _{-0.12}	54.20 ^{+0.10} _{-0.10}	6.12E+37	1.14E+35
882	58725.946880090	563.3 ^{+1.2} _{-1.2}	6.4 ^{+3.3} _{-3.3}	128 ⁺¹⁰ ₋₁₀	1326	3.81 ^{+0.04} _{-0.04}	24.24 ^{+0.12} _{-0.12}	2.74E+37	1.41E+35
883	58725.947083250	563.4 ^{+1.4} _{-1.4}	1.9 ^{+0.3} _{-0.3}	154 ⁺¹⁶ ₋₁₆	1192	14.04 ^{+0.14} _{-0.14}	27.33 ^{+0.04} _{-0.04}	3.09E+37	4.19E+34
884	58725.947132498	562.9 ^{+1.3} _{-1.3}	9.5 ^{+1.4} _{-1.4}	51 ⁺¹⁵ ₋₁₅	1353	10.97 ^{+0.11} _{-0.11}	104.24 ^{+1.19} _{-1.19}	1.12E+38	1.27E+36
885	58725.947132540	563.7 ^{+0.9} _{-0.9}	6.0 ^{+0.9} _{-0.9}	77 ⁺¹⁹ ₋₁₉	1356	13.70 ^{+0.14} _{-0.14}	81.84 ^{+0.13} _{-0.13}	9.25E+37	1.44E+35
886	58725.947817778	564.5 ^{+0.4} _{-0.4}	3.4 ^{+0.2} _{-0.2}	197 ⁺¹¹ ₋₁₁	1390	96.28 ^{+5.93} _{-5.93}	324.46 ^{+1.42} _{-1.42}	3.47E+38	1.52E+36
887	58725.947826844	562.9 ^{+0.4} _{-0.4}	3.9 ^{+0.8} _{-0.8}	124 ⁺¹⁵³ ₋₁₅₃	1411	34.23 ^{+5.30} _{-5.30}	134.87 ^{+4.40} _{-4.40}	1.44E+38	4.71E+36
888	58725.947826921	562.9 ^{+0.4} _{-0.4}	4.6 ^{+0.9} _{-0.9}	112 ⁺²⁰ ₋₂₀	1430	33.35 ^{+5.10} _{-5.10}	153.41 ^{+4.64} _{-4.64}	1.64E+38	4.97E+36
889	58725.947891779	564.5 ^{+0.4} _{-0.4}	5.0 ^{+0.8} _{-0.8}	86 ⁺⁶¹ ₋₆₁	1417	10.71 ^{+0.11} _{-0.11}	54.07 ^{+0.09} _{-0.09}	6.11E+37	9.94E+34
890	58725.948290824	563.8 ^{+0.6} _{-0.6}	3.3 ^{+0.7} _{-0.7}	63 ⁺⁸ ₋₈	1329	10.83 ^{+0.11} _{-0.11}	36.28 ^{+0.08} _{-0.08}	4.10E+37	8.94E+34
891	58725.948291081	565.8 ^{+0.6} _{-0.6}	3.3 ^{+0.7} _{-0.7}	83 ⁺¹⁷ ₋₁₇	1388	39.02 ^{+5.82} _{-5.82}	127.60 ^{+3.84} _{-3.84}	1.37E+38	4.11E+36
892	58725.948291110	565.8 ^{+0.6} _{-0.6}	3.8 ^{+0.5} _{-0.5}	150 ⁺⁴² ₋₄₂	1339	21.29 ^{+0.21} _{-0.21}	80.46 ^{+0.91} _{-0.91}	8.61E+37	9.72E+35
893	58725.948291141	565.8 ^{+0.6} _{-0.6}	3.0 ^{+0.6} _{-0.6}	213 ⁺³¹ ₋₃₁	1299	42.60 ^{+6.07} _{-6.07}	127.80 ^{+3.46} _{-3.46}	1.37E+38	3.70E+36
894	58725.949313227	564.7 ^{+0.9} _{-0.9}	6.0 ^{+0.8} _{-0.8}	107 ⁺⁶ ₋₆	1273	12.87 ^{+0.13} _{-0.13}	77.79 ^{+0.10} _{-0.10}	8.79E+37	1.15E+35
895	58725.949313344	564.8 ^{+0.6} _{-0.6}	2.4 ^{+0.7} _{-0.7}	163 ⁺⁷ ₋₇	1266	11.77 ^{+0.12} _{-0.12}	28.41 ^{+0.08} _{-0.08}	3.21E+37	9.29E+34
896	58725.949313854	563.1 ^{+1.2} _{-1.2}	9.0 ^{+2.7} _{-2.7}	112 ⁺¹⁰ ₋₁₀	1134	7.03 ^{+0.07} _{-0.07}	63.59 ^{+0.19} _{-0.19}	7.18E+37	2.09E+35
897	58725.949474471	564.2 ^{+0.8} _{-0.8}	3.6 ^{+0.9} _{-0.9}	93 ⁺¹⁹ ₋₁₉	1253	8.46 ^{+0.08} _{-0.08}	30.56 ^{+0.08} _{-0.08}	3.45E+37	8.78E+34
898	58725.949579417	563.3 ^{+1.2} _{-1.2}	6.4 ^{+2.0} _{-2.0}	80 ⁺³ ₋₃	1085	5.82 ^{+0.06} _{-0.06}	37.07 ^{+0.11} _{-0.11}	4.19E+37	1.26E+35
899	58725.949913472	563.0 ^{+0.2} _{-0.2}	3.7 ^{+1.0} _{-1.0}	100 ⁺⁷ ₋₇	1196	8.45 ^{+0.08} _{-0.08}	31.61 ^{+0.08} _{-0.08}	3.57E+37	9.27E+34
900	58725.949913649	563.4 ^{+0.9} _{-0.9}	2.1 ^{+0.4} _{-0.4}	57 ⁺¹³ ₋₁₃	1102	13.90 ^{+0.14} _{-0.14}	29.06 ^{+0.06} _{-0.06}	3.28E+37	6.41E+34
901	58725.949913888	562.6 ^{+0.3} _{-0.3}	5.1 ^{+2.7} _{-2.7}	116 ⁺⁹¹ ₋₉₁	1108	4.47 ^{+0.04} _{-0.04}	22.60 ^{+0.12} _{-0.12}	2.55E+37	1.34E+35
902	58725.950239680	563.2 ^{+1.1} _{-1.1}	7.4 ^{+1.6} _{-1.6}	65 ⁺¹⁵ ₋₁₅	1429	6.72 ^{+0.07} _{-0.07}	49.53 ^{+0.11} _{-0.11}	5.60E+37	1.20E+35
903	58725.950352085	562.9 ^{+1.1} _{-1.1}	4.2 ^{+1.6} _{-1.6}	305 ⁺¹¹² ₋₁₁₂	1285	5.27 ^{+0.05} _{-0.05}	22.41 ^{+0.08} _{-0.08}	2.53E+37	9.23E+34
904	58725.950922099	561.5 ^{+0.5} _{-0.5}	3.3 ^{+0.7} _{-0.7}	63 ⁺²⁴ ₋₂₄	1066	9.36 ^{+0.09} _{-0.09}	30.61 ^{+0.06} _{-0.06}	3.46E+37	7.15E+34
905	58725.951397422	562.7 ^{+0.8} _{-0.8}	2.3 ^{+0.6} _{-0.6}	69 ⁺²⁶ ₋₂₆	1384	7.60 ^{+0.07} _{-0.07}	17.82 ^{+0.04} _{-0.04}	2.01E+37	4.92E+34
906	58725.951993772	564.4 ^{+0.6} _{-0.6}	3.9 ^{+0.2} _{-0.2}	147 ⁺⁶ ₋₆	1416	107.26 ^{+5.55} _{-5.55}	416.17 ^{+1.28} _{-1.28}	4.46E+38	1.37E+36
907	58725.952198203	563.3 ^{+1.3} _{-1.3}	4.1 ^{+0.7} _{-0.7}	153 ⁺²⁶ ₋₂₆	1404	12.83 ^{+0.12} _{-0.12}	52.11 ^{+0.09} _{-0.09}	5.89E+37	1.00E+35
908	58725.952198758	562.7 ^{+1.2} _{-1.2}	7.0 ^{+2.5} _{-2.5}	137 ⁺¹⁴ ₋₁₄	1361	5.73 ^{+0.06} _{-0.06}	39.89 ^{+0.14} _{-0.14}	4.50E+37	1.56E+35
909	58725.952292149	562.2 ^{+0.3} _{-0.3}	1.6 ^{+0.2} _{-0.2}	63 ⁺²² ₋₂₂	1450	14.90 ^{+0.14} _{-0.14}	23.69 ^{+0.03} _{-0.03}	2.68E+37	3.23E+34
910	58725.952648493	562.7 ^{+1.0} _{-1.0}	6.1 ^{+1.4} _{-1.4}	68 ⁺⁶ ₋₆	1421	8.29 ^{+0.08} _{-0.08}	50.39 ^{+0.11} _{-0.11}	5.69E+37	1.22E+35
911	58725.952864394	562.8 ^{+1.2} _{-1.2}	2.6 ^{+0.4} _{-0.4}	83 ⁺⁴ ₋₄	1378	7.79 ^{+0.07} _{-0.07}	20.26 ^{+0.03} _{-0.03}	2.29E+37	3.71E+34
912	58725.953540220	562.9 ^{+1.1} _{-1.1}	5.2 ^{+1.2} _{-1.2}	78 ⁺⁶² ₋₆₂	1149	8.88 ^{+0.08} _{-0.08}	46.06 ^{+0.10} _{-0.10}	5.21E+37	1.16E+35
913	58725.953541368	562.9 ^{+1.2} _{-1.2}	7.6 ^{+2.3} _{-2.3}	65 ⁺¹¹ ₋₁₁	1122	5.97 ^{+0.06} _{-0.06}	45.23 ^{+0.13} _{-0.13}	5.11E+37	1.47E+35
914	58725.953907736	563.8 ^{+1.1} _{-1.1}	8.9 ^{+1.9} _{-1.9}	145 ⁺³⁸ ₋₃₈	1380	9.50 ^{+0.09} _{-0.09}	84.59 ^{+0.17} _{-0.17}	9.56E+37	1.95E+35
915	58725.954044574	563.5 ^{+1.2} _{-1.2}	3.6 ^{+0.5} _{-0.5}	104 ⁺⁴⁷ ₋₄₇	1325	10.88 ^{+0.10} _{-0.10}	38.65 ^{+0.05} _{-0.05}	4.37E+37	5.33E+34
916	58725.954113513	564.5 ^{+0.9} _{-0.9}	4.1 ^{+0.4} _{-0.4}	203 ⁺³⁷ ₋₃₇	1177	20.84 ^{+0.20} _{-0.20}	85.04 ^{+0.07} _{-0.07}	9.61E+37	8.39E+34
917	58725.954628499	562.8 ^{+1.2} _{-1.2}	5.1 ^{+1.2} _{-1.2}	61 ⁺¹³ ₋₁₃	1391	8.27 ^{+0.08} _{-0.08}	42.34 ^{+0.09} _{-0.09}	4.78E+37	1.05E+35
918	58725.954847928	564.8 ^{+0.6} _{-0.6}	5.4 ^{+0.4} _{-0.4}	337 ⁺⁴³ ₋₄₃	1281	79.52 ^{+4.44} _{-4.44}	433.38 ^{+1.60} _{-1.60}	4.64E+38	1.71E+36
919	58725.955020085	564.0 ^{+1.3} _{-1.3}	3.0 ^{+0.8} _{-0.8}	50 ⁺²⁰ ₋₂₀	1211	10.46 ^{+0.10} _{-0.10}	31.48 ^{+0.08} _{-0.08}	3.56E+37	8.59E+34
920	58725.955020197	564.9 ^{+0.9} _{-0.9}	5.0 ^{+1.2} _{-1.2}	61 ⁺³⁷ ₋₃₇	1119	10.65 ^{+0.10} _{-0.10}	53.58 ^{+0.12} _{-0.12}	6.05E+37	1.30E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
921	58725.955045129	563.3 ^{+1.3} _{-1.3}	2.9 ^{+0.7} _{-0.7}	87 ⁺⁵ ₋₅	1381	9.62 ^{+0.09} _{-0.09}	27.81 ^{+0.06} _{-0.06}	3.14E+37	7.20E+34
922	58725.955127746	562.5 ^{+0.8} _{-0.8}	4.5 ^{+0.4} _{-0.4}	232 ⁺³⁹ ₋₃₉	1379	62.35 ^{+5.00} _{-5.00}	282.45 ^{+2.10} _{-2.10}	3.02E+38	2.25E+36
923	58725.955535297	563.3 ^{+1.2} _{-1.2}	4.0 ^{+0.6} _{-0.6}	139 ⁺²⁵ ₋₂₅	1246	20.72 ^{+0.19} _{-0.19}	83.54 ^{+0.89} _{-0.89}	8.94E+37	9.48E+35
924	58725.955535357	563.3 ^{+1.2} _{-1.2}	6.7 ^{+0.8} _{-0.8}	178 ⁺¹⁶ ₋₁₆	1226	39.63 ^{+3.91} _{-3.91}	265.92 ^{+3.01} _{-3.01}	2.85E+38	3.22E+36
925	58725.955546053	563.0 ^{+1.1} _{-1.1}	7.3 ^{+1.6} _{-1.6}	63 ⁺²¹ ₋₂₁	1293	7.96 ^{+0.07} _{-0.07}	58.48 ^{+0.12} _{-0.12}	6.61E+37	1.32E+35
926	58725.955613904	562.7 ^{+1.3} _{-1.3}	3.7 ^{+1.5} _{-1.5}	73 ⁺¹¹ ₋₁₁	1355	4.90 ^{+0.04} _{-0.04}	18.00 ^{+0.07} _{-0.07}	2.03E+37	7.72E+34
927	58725.955915034	562.4 ^{+1.0} _{-1.0}	5.9 ^{+1.6} _{-1.6}	63 ⁺³² ₋₃₂	1422	8.26 ^{+0.08} _{-0.08}	48.43 ^{+0.12} _{-0.12}	5.47E+37	1.38E+35
928	58725.955947809	563.4 ^{+1.3} _{-1.3}	5.3 ^{+2.1} _{-2.1}	51 ⁺⁴ ₋₄	1400	4.86 ^{+0.04} _{-0.04}	25.96 ^{+0.09} _{-0.09}	2.93E+37	1.05E+35
929	58725.956101877	565.1 ^{+0.8} _{-0.8}	4.1 ^{+1.7} _{-1.7}	67 ⁺⁵ ₋₅	1084	5.18 ^{+0.05} _{-0.05}	21.50 ^{+0.08} _{-0.08}	2.43E+37	9.27E+34
930	58725.956102106	563.4 ^{+1.1} _{-1.1}	3.8 ^{+1.0} _{-1.0}	214 ⁺⁹ ₋₉	1277	9.05 ^{+0.08} _{-0.08}	34.45 ^{+0.08} _{-0.08}	3.89E+37	9.22E+34
931	58725.956276310	562.7 ^{+1.3} _{-1.3}	4.3 ^{+0.6} _{-0.6}	117 ⁺³⁵ ₋₃₅	1404	7.09 ^{+0.07} _{-0.07}	30.57 ^{+0.32} _{-0.32}	3.27E+37	3.43E+35
932	58725.956794994	562.7 ^{+1.2} _{-1.2}	5.1 ^{+0.7} _{-0.7}	172 ⁺²³ ₋₂₃	1163	15.97 ^{+0.15} _{-0.15}	81.07 ^{+0.85} _{-0.85}	8.68E+37	9.08E+35
933	58725.956844049	562.9 ^{+1.3} _{-1.3}	4.3 ^{+0.7} _{-0.7}	68 ⁺¹¹ ₋₁₁	1086	9.98 ^{+0.09} _{-0.09}	42.91 ^{+0.07} _{-0.07}	4.85E+37	7.68E+34
934	58725.956855531	563.0 ^{+0.9} _{-0.9}	3.4 ^{+0.7} _{-0.7}	108 ⁺⁶ ₋₆	1317	6.71 ^{+0.06} _{-0.06}	22.69 ^{+0.04} _{-0.04}	2.56E+37	4.86E+34
935	58725.957266677	564.4 ^{+0.6} _{-0.6}	7.8 ^{+0.2} _{-0.2}	447 ⁺²³ ₋₂₃	1275	147.11 ^{+3.99} _{-3.99}	1154.81 ^{+1.00} _{-1.00}	1.24E+39	1.07E+36
936	58725.957266685	564.4 ^{+0.6} _{-0.6}	8.3 ^{+1.2} _{-1.2}	464 ⁺¹⁴ ₋₁₄	1267	43.30 ^{+0.40} _{-0.40}	360.17 ^{+3.77} _{-3.77}	3.86E+38	4.03E+36
937	58725.957458200	563.1 ^{+1.1} _{-1.1}	3.5 ^{+0.4} _{-0.4}	137 ⁺¹⁸ ₋₁₈	1414	62.63 ^{+5.46} _{-5.46}	217.33 ^{+1.97} _{-1.97}	2.33E+38	2.10E+36
938	58725.957641901	562.1 ^{+1.1} _{-1.1}	7.4 ^{+1.7} _{-1.7}	104 ⁺²³ ₋₂₃	1339	10.09 ^{+0.09} _{-0.09}	74.66 ^{+0.16} _{-0.16}	8.44E+37	1.80E+35
939	58725.957807585	563.7 ^{+1.3} _{-1.3}	3.4 ^{+0.5} _{-0.5}	46 ⁺¹⁹ ₋₁₉	1419	10.93 ^{+0.10} _{-0.10}	37.01 ^{+0.38} _{-0.38}	3.96E+37	4.11E+35
940	58725.957812309	563.6 ^{+0.9} _{-0.9}	3.2 ^{+0.6} _{-0.6}	111 ⁺⁴⁶ ₋₄₆	1280	13.29 ^{+0.12} _{-0.12}	42.80 ^{+0.07} _{-0.07}	4.84E+37	8.29E+34
941	58725.957850990	562.9 ^{+1.3} _{-1.3}	8.1 ^{+2.5} _{-2.5}	62 ⁺³⁹ ₋₃₉	1249	7.60 ^{+0.07} _{-0.07}	61.27 ^{+0.17} _{-0.17}	6.92E+37	1.96E+35
942	58725.957869449	562.7 ^{+0.9} _{-0.9}	4.9 ^{+1.1} _{-1.1}	169 ⁺³¹ ₋₃₁	1364	9.33 ^{+0.09} _{-0.09}	45.45 ^{+0.09} _{-0.09}	5.14E+37	1.06E+35
943	58725.958019658	562.6 ^{+1.4} _{-1.4}	2.4 ^{+0.7} _{-0.7}	106 ⁺⁴¹ ₋₄₁	1412	8.76 ^{+0.08} _{-0.08}	21.22 ^{+0.05} _{-0.05}	2.40E+37	5.98E+34
944	58725.958262259	563.7 ^{+1.4} _{-1.4}	4.1 ^{+0.6} _{-0.6}	121 ⁺¹² ₋₁₂	1412	5.24 ^{+0.05} _{-0.05}	21.53 ^{+0.23} _{-0.23}	2.30E+37	2.41E+35
945	58725.958262372	564.0 ^{+0.5} _{-0.5}	4.7 ^{+0.9} _{-0.9}	81 ⁺²⁴ ₋₂₄	1385	10.68 ^{+0.10} _{-0.10}	50.18 ^{+0.09} _{-0.09}	5.67E+37	1.02E+35
946	58725.958774654	563.8 ^{+1.0} _{-1.0}	3.6 ^{+0.5} _{-0.5}	75 ⁺⁴⁴ ₋₄₄	1326	13.73 ^{+0.12} _{-0.12}	49.94 ^{+0.06} _{-0.06}	5.64E+37	6.96E+34
947	58725.958941803	562.4 ^{+1.0} _{-1.0}	5.7 ^{+0.9} _{-0.9}	43 ⁺⁴ ₋₄	1364	12.74 ^{+0.12} _{-0.12}	72.36 ^{+0.10} _{-0.10}	8.18E+37	1.16E+35
948	58725.959163892	562.5 ^{+1.2} _{-1.2}	5.9 ^{+0.5} _{-0.5}	156 ⁺³⁴ ₋₃₄	1409	58.68 ^{+4.03} _{-4.03}	345.63 ^{+1.93} _{-1.93}	3.70E+38	2.07E+36
949	58725.959416060	563.4 ^{+1.1} _{-1.1}	3.5 ^{+1.0} _{-1.0}	73 ⁺⁸ ₋₈	1423	9.07 ^{+0.08} _{-0.08}	31.84 ^{+0.08} _{-0.08}	3.60E+37	8.96E+34
950	58725.959788410	563.3 ^{+1.1} _{-1.1}	8.3 ^{+2.7} _{-2.7}	74 ⁺³⁸ ₋₃₈	1389	7.88 ^{+0.07} _{-0.07}	65.33 ^{+0.19} _{-0.19}	7.38E+37	2.14E+35
951	58725.960121244	563.8 ^{+1.2} _{-1.2}	4.8 ^{+1.8} _{-1.8}	96 ⁺⁴³ ₋₄₃	1355	8.73 ^{+0.08} _{-0.08}	42.08 ^{+0.14} _{-0.14}	4.75E+37	1.55E+35
952	58725.960430145	563.2 ^{+1.2} _{-1.2}	5.8 ^{+1.6} _{-1.6}	152 ⁺²⁷ ₋₂₇	1412	12.03 ^{+0.11} _{-0.11}	70.33 ^{+0.17} _{-0.17}	7.95E+37	1.97E+35
953	58725.960589644	563.3 ^{+1.0} _{-1.0}	4.2 ^{+0.9} _{-0.9}	126 ⁺³⁵ ₋₃₅	1377	15.42 ^{+0.14} _{-0.14}	65.00 ^{+0.13} _{-0.13}	7.35E+37	1.43E+35
954	58725.960638802	564.0 ^{+1.4} _{-1.4}	5.6 ^{+0.6} _{-0.6}	261 ⁺¹⁸ ₋₁₈	1343	46.34 ^{+4.41} _{-4.41}	259.50 ^{+2.73} _{-2.73}	2.78E+38	2.93E+36
955	58725.960638805	564.0 ^{+1.4} _{-1.4}	5.0 ^{+0.7} _{-0.7}	281 ⁺³¹ ₋₃₁	1315	12.98 ^{+0.12} _{-0.12}	64.75 ^{+0.66} _{-0.66}	6.93E+37	7.03E+35
956	58725.961210978	562.8 ^{+1.2} _{-1.2}	2.9 ^{+1.0} _{-1.0}	132 ⁺³³ ₋₃₃	1272	10.37 ^{+0.09} _{-0.09}	30.32 ^{+0.09} _{-0.09}	3.43E+37	1.07E+35
957	58725.961517735	563.3 ^{+1.2} _{-1.2}	8.5 ^{+2.1} _{-2.1}	94 ⁺⁴⁹ ₋₄₉	1214	8.22 ^{+0.07} _{-0.07}	70.12 ^{+0.15} _{-0.15}	7.92E+37	1.73E+35
958	58725.961611902	563.2 ^{+1.2} _{-1.2}	3.7 ^{+0.7} _{-0.7}	142 ⁺³⁴ ₋₃₄	1281	13.02 ^{+0.12} _{-0.12}	48.70 ^{+0.08} _{-0.08}	5.50E+37	8.88E+34
959	58725.961813802	563.5 ^{+1.4} _{-1.4}	6.1 ^{+1.2} _{-1.2}	55 ⁺⁵ ₋₅	1163	12.58 ^{+0.11} _{-0.11}	77.22 ^{+0.13} _{-0.13}	8.73E+37	1.46E+35
960	58725.962261636	563.2 ^{+1.3} _{-1.3}	3.8 ^{+1.3} _{-1.3}	50 ⁺¹⁵ ₋₁₅	1428	7.19 ^{+0.06} _{-0.06}	27.07 ^{+0.08} _{-0.08}	3.06E+37	9.08E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
961	58725.962625521	563.3 ^{+1.2} _{-1.2}	10.3 ^{+1.2} _{-1.2}	147 ⁺¹¹ ₋₁₁	1223	31.69 ^{+3.14} _{-3.14}	326.41 ^{+3.89} _{-3.89}	3.49E+38	4.17E+36
962	58725.962810810	564.0 ^{+1.0} _{-1.0}	4.2 ^{+0.6} _{-0.6}	113 ⁺⁵⁶ ₋₅₆	1232	10.30 ^{+0.09} _{-0.09}	43.53 ^{+0.06} _{-0.06}	4.92E+37	6.36E+34
963	58725.962811119	562.6 ^{+1.0} _{-1.0}	5.3 ^{+1.2} _{-1.2}	70 ⁺³⁴ ₋₃₄	1344	9.20 ^{+0.08} _{-0.08}	49.13 ^{+0.10} _{-0.10}	5.55E+37	1.10E+35
964	58725.962951476	564.2 ^{+1.2} _{-1.2}	4.1 ^{+0.6} _{-0.6}	128 ⁺⁴² ₋₄₂	1240	13.66 ^{+0.12} _{-0.12}	56.55 ^{+0.08} _{-0.08}	6.39E+37	8.76E+34
965	58725.963154402	563.0 ^{+1.4} _{-1.4}	3.0 ^{+0.7} _{-0.7}	131 ⁺⁶⁸ ₋₆₈	1244	14.17 ^{+0.12} _{-0.12}	42.88 ^{+0.08} _{-0.08}	4.85E+37	9.16E+34
966	58725.963188114	563.4 ^{+1.2} _{-1.2}	2.0 ^{+0.3} _{-0.3}	94 ⁺⁶⁸ ₋₆₈	1411	13.11 ^{+0.11} _{-0.11}	26.78 ^{+0.27} _{-0.27}	2.87E+37	2.85E+35
967	58725.963365507	564.0 ^{+0.5} _{-0.5}	5.9 ^{+1.7} _{-1.7}	37 ⁺⁴² ₋₄₂	1064	5.01 ^{+0.04} _{-0.04}	29.77 ^{+0.07} _{-0.07}	3.36E+37	8.33E+34
968	58725.963651750	564.5 ^{+1.2} _{-1.2}	9.6 ^{+1.4} _{-1.4}	82 ⁺²⁴ ₋₂₄	1389	16.39 ^{+0.14} _{-0.14}	157.71 ^{+1.56} _{-1.56}	1.69E+38	1.67E+36
969	58725.963748221	563.7 ^{+1.2} _{-1.2}	4.5 ^{+1.2} _{-1.2}	155 ⁺⁷ ₋₇	1121	5.73 ^{+0.05} _{-0.05}	25.56 ^{+0.06} _{-0.06}	2.89E+37	6.84E+34
970	58725.963748691	563.4 ^{+1.2} _{-1.2}	4.6 ^{+1.4} _{-1.4}	121 ⁺⁸² ₋₈₂	1186	9.78 ^{+0.09} _{-0.09}	45.49 ^{+0.12} _{-0.12}	5.14E+37	1.32E+35
971	58725.963749675	563.5 ^{+1.2} _{-1.2}	7.3 ^{+1.3} _{-1.3}	110 ⁺⁷ ₋₇	1285	24.58 ^{+3.63} _{-3.63}	179.43 ^{+4.57} _{-4.57}	1.92E+38	4.90E+36
972	58725.964615996	564.1 ^{+0.8} _{-0.8}	8.7 ^{+3.4} _{-3.4}	59 ⁺³¹ ₋₃₁	1399	6.60 ^{+0.06} _{-0.06}	57.12 ^{+0.19} _{-0.19}	6.45E+37	2.19E+35
973	58725.965181969	562.0 ^{+0.5} _{-0.5}	9.1 ^{+0.4} _{-0.4}	192 ⁺¹⁰ ₋₁₀	1191	100.11 ^{+3.53} _{-3.53}	915.01 ^{+1.34} _{-1.34}	9.79E+38	1.44E+36
974	58725.966293056	563.7 ^{+1.3} _{-1.3}	3.5 ^{+0.4} _{-0.4}	134 ⁺¹⁸ ₋₁₈	1347	50.48 ^{+5.04} _{-5.04}	178.19 ^{+2.07} _{-2.07}	1.91E+38	2.21E+36
975	58725.966310141	563.4 ^{+1.2} _{-1.2}	4.6 ^{+2.8} _{-2.8}	78 ⁺³ ₋₃	1081	4.84 ^{+0.04} _{-0.04}	22.44 ^{+0.11} _{-0.11}	2.54E+37	1.28E+35
976	58725.966429219	563.3 ^{+1.2} _{-1.2}	8.8 ^{+2.0} _{-2.0}	59 ⁺⁴⁴ ₋₄₄	1106	9.09 ^{+0.08} _{-0.08}	80.06 ^{+0.15} _{-0.15}	9.05E+37	1.71E+35
977	58725.966454042	562.7 ^{+1.3} _{-1.3}	4.5 ^{+1.8} _{-1.8}	66 ⁺⁴⁶ ₋₄₆	1342	7.09 ^{+0.06} _{-0.06}	31.86 ^{+0.11} _{-0.11}	3.60E+37	1.22E+35
978	58725.966756302	562.9 ^{+1.2} _{-1.2}	5.7 ^{+1.5} _{-1.5}	65 ⁺²⁶ ₋₂₆	1379	9.12 ^{+0.08} _{-0.08}	52.42 ^{+0.12} _{-0.12}	5.92E+37	1.31E+35
979	58725.967360290	563.7 ^{+0.1} _{-0.1}	2.6 ^{+0.1} _{-0.1}	284 ⁺¹³ ₋₁₃	1357	247.36 ^{+6.35} _{-6.35}	630.77 ^{+0.51} _{-0.51}	6.75E+38	5.44E+35
980	58725.967453282	564.7 ^{+0.9} _{-0.9}	3.3 ^{+0.6} _{-0.6}	197 ⁺⁴⁸ ₋₄₈	1296	15.67 ^{+0.13} _{-0.13}	51.42 ^{+0.08} _{-0.08}	5.81E+37	9.08E+34
981	58725.967931039	563.1 ^{+1.3} _{-1.3}	11.8 ^{+4.1} _{-4.1}	162 ⁺¹¹³ ₋₁₁₃	1324	6.92 ^{+0.06} _{-0.06}	81.65 ^{+0.24} _{-0.24}	9.23E+37	2.68E+35
982	58725.968132853	563.2 ^{+1.0} _{-1.0}	3.2 ^{+1.0} _{-1.0}	82 ⁺²⁴ ₋₂₄	1136	9.62 ^{+0.08} _{-0.08}	31.09 ^{+0.08} _{-0.08}	3.51E+37	8.78E+34
983	58725.968269169	564.1 ^{+0.9} _{-0.9}	2.0 ^{+0.4} _{-0.4}	65 ⁺⁶³ ₋₆₃	1054	6.79 ^{+0.06} _{-0.06}	13.38 ^{+0.02} _{-0.02}	1.51E+37	2.50E+34
984	58725.968430857	563.6 ^{+1.2} _{-1.2}	3.4 ^{+1.2} _{-1.2}	108 ⁺⁴⁰ ₋₄₀	1193	6.08 ^{+0.05} _{-0.05}	20.74 ^{+0.06} _{-0.06}	2.34E+37	6.64E+34
985	58725.968431041	563.2 ^{+1.3} _{-1.3}	2.1 ^{+0.6} _{-0.6}	158 ⁺³⁹ ₋₃₉	1196	10.81 ^{+0.09} _{-0.09}	22.51 ^{+0.05} _{-0.05}	2.54E+37	6.00E+34
986	58725.968855645	563.1 ^{+1.3} _{-1.3}	2.9 ^{+0.4} _{-0.4}	50 ⁺²² ₋₂₂	1420	10.95 ^{+0.09} _{-0.09}	31.56 ^{+0.04} _{-0.04}	3.57E+37	4.47E+34
987	58725.968855882	563.5 ^{+1.2} _{-1.2}	2.6 ^{+2.3} _{-2.3}	175 ⁺¹⁰ ₋₁₀	1285	3.90 ^{+0.03} _{-0.03}	10.14 ^{+0.07} _{-0.07}	1.15E+37	8.35E+34
988	58725.968913311	564.9 ^{+1.0} _{-1.0}	4.3 ^{+0.4} _{-0.4}	59 ⁺³² ₋₃₂	1417	65.65 ^{+4.73} _{-4.73}	282.95 ^{+1.70} _{-1.70}	3.03E+38	1.82E+36
989	58725.969584737	563.7 ^{+0.8} _{-0.8}	2.6 ^{+0.5} _{-0.5}	116 ⁺⁴⁶ ₋₄₆	1399	11.10 ^{+0.09} _{-0.09}	28.97 ^{+0.05} _{-0.05}	3.27E+37	5.65E+34
990	58725.969632699	562.8 ^{+1.2} _{-1.2}	3.2 ^{+0.8} _{-0.8}	64 ⁺¹² ₋₁₂	1175	11.46 ^{+0.10} _{-0.10}	37.21 ^{+0.07} _{-0.07}	4.20E+37	8.26E+34
991	58725.969693533	563.9 ^{+0.4} _{-0.4}	7.0 ^{+1.0} _{-1.0}	109 ⁺⁴⁰ ₋₄₀	1214	13.71 ^{+0.11} _{-0.11}	95.78 ^{+0.12} _{-0.12}	1.08E+38	1.32E+35
992	58725.970066782	563.0 ^{+1.0} _{-1.0}	7.2 ^{+2.9} _{-2.9}	46 ⁺²⁶ ₋₂₆	1105	5.00 ^{+0.04} _{-0.04}	35.76 ^{+0.12} _{-0.12}	4.04E+37	1.36E+35
993	58725.970171408	562.6 ^{+1.3} _{-1.3}	5.0 ^{+1.2} _{-1.2}	231 ⁺¹³⁵ ₋₁₃₅	1287	6.73 ^{+0.06} _{-0.06}	33.36 ^{+0.07} _{-0.07}	3.77E+37	7.62E+34
994	58725.970171554	562.6 ^{+1.3} _{-1.3}	9.2 ^{+3.0} _{-3.0}	71 ⁺³³ ₋₃₃	1385	7.70 ^{+0.06} _{-0.06}	71.13 ^{+0.19} _{-0.19}	8.04E+37	2.12E+35
995	58725.970473859	563.3 ^{+1.2} _{-1.2}	3.4 ^{+1.0} _{-1.0}	56 ⁺⁴ ₋₄	1407	7.06 ^{+0.06} _{-0.06}	24.05 ^{+0.06} _{-0.06}	2.72E+37	6.42E+34
996	58725.970665252	563.4 ^{+1.0} _{-1.0}	2.6 ^{+0.5} _{-0.5}	88 ⁺³³ ₋₃₃	1404	11.96 ^{+0.10} _{-0.10}	31.42 ^{+0.05} _{-0.05}	3.55E+37	5.15E+34
997	58725.970979889	563.2 ^{+1.2} _{-1.2}	5.1 ^{+1.7} _{-1.7}	53 ⁺²⁰ ₋₂₀	1324	7.59 ^{+0.06} _{-0.06}	39.06 ^{+0.10} _{-0.10}	4.41E+37	1.18E+35
998	58725.971049237	565.0 ^{+0.7} _{-0.7}	3.3 ^{+0.5} _{-0.5}	143 ⁺⁵⁶ ₋₅₆	1150	15.77 ^{+0.13} _{-0.13}	52.56 ^{+0.06} _{-0.06}	5.94E+37	7.00E+34
999	58725.971658309	564.2 ^{+0.5} _{-0.5}	4.9 ^{+0.6} _{-0.6}	109 ⁺⁴⁸ ₋₄₈	1273	45.12 ^{+4.52} _{-4.52}	220.64 ^{+2.67} _{-2.67}	2.36E+38	2.85E+36
1000	58725.971864426	563.6 ^{+1.3} _{-1.3}	3.0 ^{+0.3} _{-0.3}	202 ⁺²⁴ ₋₂₄	1329	15.68 ^{+0.13} _{-0.13}	47.72 ^{+0.04} _{-0.04}	5.39E+37	4.22E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^{a)}	DM ^{b)}	W _{eff} ^{c)}	Bandwidth ^{d)}	Cntrl freq.	Peak flux	Fluence	Energy ^{e)} _{1.25GHz}	Err.Energy ^{f)} _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1001	58725.971938684	562.8 ^{+1.3} _{-1.3}	4.8 ^{+0.9} _{-0.9}	69 ⁺¹⁷ ₋₁₇	1322	12.46 ^{+0.10} _{-0.10}	60.24 ^{+0.09} _{-0.09}	6.81E+37	9.94E+34
1002	58725.972034703	562.3 ^{+0.9} _{-0.9}	7.2 ^{+3.6} _{-3.6}	49 ⁺⁵ ₋₅	1401	4.99 ^{+0.04} _{-0.04}	36.06 ^{+0.14} _{-0.14}	4.07E+37	1.60E+35
1003	58725.972034953	562.9 ^{+1.3} _{-1.3}	5.0 ^{+1.5} _{-1.5}	86 ⁺⁴ ₋₄	1399	8.36 ^{+0.07} _{-0.07}	41.45 ^{+0.10} _{-0.10}	4.68E+37	1.14E+35
1004	58725.972102879	563.6 ^{+1.0} _{-1.0}	5.4 ^{+2.7} _{-2.7}	66 ⁺⁴ ₋₄	1417	6.97 ^{+0.06} _{-0.06}	37.94 ^{+0.15} _{-0.15}	4.29E+37	1.74E+35
1005	58725.972465571	562.6 ^{+1.1} _{-1.1}	5.3 ^{+1.0} _{-1.0}	95 ⁺³² ₋₃₂	1371	10.40 ^{+0.08} _{-0.08}	54.63 ^{+0.08} _{-0.08}	6.17E+37	9.26E+34
1006	58725.972749382	563.8 ^{+0.5} _{-0.5}	3.0 ^{+0.5} _{-0.5}	70 ⁺¹⁸ ₋₁₈	1129	18.99 ^{+0.15} _{-0.15}	56.18 ^{+0.07} _{-0.07}	6.35E+37	8.39E+34
1007	58725.973116476	563.1 ^{+1.2} _{-1.2}	2.2 ^{+0.4} _{-0.4}	27 ⁺⁵ ₋₅	1453	11.23 ^{+0.09} _{-0.09}	24.64 ^{+0.04} _{-0.04}	2.78E+37	4.15E+34
1008	58725.973297063	563.3 ^{+1.4} _{-1.4}	7.1 ^{+1.7} _{-1.7}	72 ⁺¹⁸ ₋₁₈	1091	10.89 ^{+0.09} _{-0.09}	77.85 ^{+0.15} _{-0.15}	8.80E+37	1.69E+35
1009	58725.973904777	562.0 ^{+0.6} _{-0.6}	15.5 ^{+5.0} _{-5.0}	243 ⁺⁴ ₋₄	1161	10.38 ^{+0.08} _{-0.08}	160.74 ^{+0.41} _{-0.41}	1.82E+38	4.64E+35
1010	58725.974381389	564.3 ^{+1.0} _{-1.0}	4.1 ^{+0.6} _{-0.6}	158 ⁺²⁰ ₋₂₀	1138	18.02 ^{+0.14} _{-0.14}	73.18 ^{+0.66} _{-0.66}	7.83E+37	7.11E+35
1011	58725.974708453	562.7 ^{+0.8} _{-0.8}	2.0 ^{+0.3} _{-0.3}	61 ⁺²⁴ ₋₂₄	1331	16.98 ^{+0.13} _{-0.13}	34.09 ^{+0.31} _{-0.31}	3.65E+37	3.30E+35
1012	58725.974708624	563.9 ^{+0.6} _{-0.6}	2.4 ^{+1.3} _{-1.3}	54 ⁺²⁶ ₋₂₆	1344	5.33 ^{+0.04} _{-0.04}	12.54 ^{+0.05} _{-0.05}	1.42E+37	6.08E+34
1013	58725.974785918	563.0 ^{+1.2} _{-1.2}	5.9 ^{+2.4} _{-2.4}	245 ⁺⁷⁸ ₋₇₈	1214	6.79 ^{+0.05} _{-0.05}	40.14 ^{+0.13} _{-0.13}	4.54E+37	1.48E+35
1014	58725.974803208	563.2 ^{+0.3} _{-0.3}	3.2 ^{+0.3} _{-0.3}	127 ⁺¹⁰ ₋₁₀	1073	80.20 ^{+5.64} _{-5.64}	254.23 ^{+1.47} _{-1.47}	2.72E+38	1.57E+36
1015	58725.974803221	563.2 ^{+0.3} _{-0.3}	5.3 ^{+0.8} _{-0.8}	102 ⁺¹¹ ₋₁₁	1055	15.89 ^{+0.12} _{-0.12}	84.64 ^{+0.76} _{-0.76}	9.06E+37	8.15E+35
1016	58725.974972635	561.7 ^{+0.9} _{-0.9}	5.5 ^{+2.2} _{-2.2}	68 ⁺³ ₋₃	1415	5.75 ^{+0.04} _{-0.04}	31.56 ^{+0.10} _{-0.10}	3.57E+37	1.13E+35
1017	58725.974973036	562.5 ^{+1.3} _{-1.3}	8.9 ^{+4.4} _{-4.4}	223 ⁺¹⁵ ₋₁₅	1246	4.58 ^{+0.04} _{-0.04}	40.93 ^{+0.16} _{-0.16}	4.62E+37	1.79E+35
1018	58725.975368755	562.8 ^{+1.2} _{-1.2}	8.1 ^{+3.3} _{-3.3}	68 ⁺⁶ ₋₆	1202	6.45 ^{+0.05} _{-0.05}	52.17 ^{+0.17} _{-0.17}	5.90E+37	1.93E+35
1019	58725.975465088	563.2 ^{+1.1} _{-1.1}	3.8 ^{+0.8} _{-0.8}	82 ⁺³⁹ ₋₃₉	1325	13.63 ^{+0.11} _{-0.11}	52.03 ^{+0.08} _{-0.08}	5.88E+37	9.53E+34
1020	58725.975706947	563.1 ^{+1.2} _{-1.2}	4.2 ^{+0.6} _{-0.6}	131 ⁺¹⁰¹ ₋₁₀₁	1370	9.79 ^{+0.08} _{-0.08}	41.01 ^{+0.37} _{-0.37}	4.39E+37	3.95E+35
1021	58725.975841956	561.6 ^{+1.0} _{-1.0}	4.9 ^{+1.0} _{-1.0}	122 ⁺⁸ ₋₈	1304	9.97 ^{+0.08} _{-0.08}	49.35 ^{+0.08} _{-0.08}	5.58E+37	9.18E+34
1022	58725.976684829	562.9 ^{+1.4} _{-1.4}	6.3 ^{+2.4} _{-2.4}	107 ⁺²¹ ₋₂₁	1426	5.94 ^{+0.05} _{-0.05}	37.22 ^{+0.11} _{-0.11}	4.21E+37	1.27E+35
1023	58725.976739810	563.9 ^{+0.9} _{-0.9}	3.6 ^{+0.9} _{-0.9}	73 ⁺⁴ ₋₄	1186	10.05 ^{+0.08} _{-0.08}	35.81 ^{+0.07} _{-0.07}	4.05E+37	8.36E+34
1024	58725.976740965	562.7 ^{+1.3} _{-1.3}	2.9 ^{+1.0} _{-1.0}	108 ⁺⁹⁶ ₋₉₆	1096	6.92 ^{+0.05} _{-0.05}	20.17 ^{+0.05} _{-0.05}	2.28E+37	6.15E+34
1025	58725.976819283	565.4 ^{+0.6} _{-0.6}	4.6 ^{+0.5} _{-0.5}	142 ⁺¹⁰ ₋₁₀	1411	21.57 ^{+0.17} _{-0.17}	100.11 ^{+0.08} _{-0.08}	1.13E+38	8.96E+34
1026	58725.977130920	563.0 ^{+1.3} _{-1.3}	5.4 ^{+1.3} _{-1.3}	123 ⁺⁶⁷ ₋₆₇	1340	8.75 ^{+0.07} _{-0.07}	46.87 ^{+0.09} _{-0.09}	5.30E+37	1.02E+35
1027	58725.977378210	564.8 ^{+0.7} _{-0.7}	3.2 ^{+0.5} _{-0.5}	188 ⁺²⁰ ₋₂₀	1203	26.04 ^{+0.20} _{-0.20}	83.65 ^{+0.74} _{-0.74}	8.95E+37	7.95E+35
1028	58725.977378238	564.8 ^{+0.7} _{-0.7}	3.1 ^{+0.3} _{-0.3}	186 ⁺²³ ₋₂₃	1188	82.90 ^{+5.70} _{-5.70}	260.31 ^{+1.48} _{-1.48}	2.79E+38	1.59E+36
1029	58725.977396919	563.3 ^{+1.0} _{-1.0}	9.5 ^{+3.7} _{-3.7}	106 ⁺³⁴ ₋₃₄	1080	8.70 ^{+0.07} _{-0.07}	82.28 ^{+0.25} _{-0.25}	9.30E+37	2.88E+35
1030	58725.977550784	562.9 ^{+1.3} _{-1.3}	4.1 ^{+0.5} _{-0.5}	87 ⁺³⁷ ₋₃₇	1101	10.79 ^{+0.08} _{-0.08}	43.92 ^{+0.05} _{-0.05}	4.96E+37	5.18E+34
1031	58725.977741191	563.2 ^{+1.4} _{-1.4}	3.7 ^{+0.8} _{-0.8}	64 ⁺⁴ ₋₄	1421	11.39 ^{+0.09} _{-0.09}	41.84 ^{+0.07} _{-0.07}	4.73E+37	8.31E+34
1032	58725.977908427	562.8 ^{+1.1} _{-1.1}	6.2 ^{+2.1} _{-2.1}	62 ⁺²⁰ ₋₂₀	1397	6.82 ^{+0.05} _{-0.05}	42.06 ^{+0.11} _{-0.11}	4.75E+37	1.24E+35
1033	58725.978712210	563.1 ^{+1.1} _{-1.1}	4.0 ^{+0.6} _{-0.6}	54 ⁺¹³ ₋₁₃	1444	13.09 ^{+0.10} _{-0.10}	52.69 ^{+0.47} _{-0.47}	5.64E+37	4.98E+35
1034	58725.979086321	563.2 ^{+1.1} _{-1.1}	3.8 ^{+0.7} _{-0.7}	133 ⁺³³ ₋₃₃	1185	11.69 ^{+0.09} _{-0.09}	44.81 ^{+0.06} _{-0.06}	5.06E+37	7.31E+34
1035	58725.979115611	562.1 ^{+0.3} _{-0.3}	3.8 ^{+0.5} _{-0.5}	86 ⁺⁵⁶ ₋₅₆	1147	9.59 ^{+0.07} _{-0.07}	36.10 ^{+0.31} _{-0.31}	3.86E+37	3.37E+35
1036	58725.979422138	562.6 ^{+1.3} _{-1.3}	5.8 ^{+1.6} _{-1.6}	82 ⁺³⁹ ₋₃₉	1363	7.92 ^{+0.06} _{-0.06}	46.09 ^{+0.10} _{-0.10}	5.21E+37	1.08E+35
1037	58725.980010942	564.8 ^{+0.7} _{-0.7}	2.1 ^{+0.6} _{-0.6}	47 ⁺²⁴ ₋₂₄	1351	9.05 ^{+0.07} _{-0.07}	19.40 ^{+0.04} _{-0.04}	2.19E+37	4.42E+34
1038	58725.980287923	564.2 ^{+1.2} _{-1.2}	4.6 ^{+1.3} _{-1.3}	123 ⁺¹⁴ ₋₁₄	1422	7.97 ^{+0.06} _{-0.06}	36.39 ^{+0.08} _{-0.08}	4.11E+37	9.01E+34
1039	58725.980470171	564.0 ^{+1.0} _{-1.0}	3.6 ^{+0.6} _{-0.6}	88 ⁺²² ₋₂₂	1392	14.77 ^{+0.11} _{-0.11}	53.59 ^{+0.07} _{-0.07}	6.06E+37	7.35E+34
1040	58725.980549227	563.7 ^{+0.2} _{-0.2}	4.7 ^{+0.3} _{-0.3}	317 ⁺¹³ ₋₁₃	1341	126.45 ^{+4.70} _{-4.70}	595.58 ^{+1.27} _{-1.27}	6.38E+38	1.36E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1041	58725.980549328	563.7 ^{+0.2} _{-0.2}	5.3 ^{+0.6} _{-0.6}	225 ⁺⁷⁴ ₋₇₄	1172	20.14 ^{+0.15} _{-0.15}	106.31 ^{+0.09} _{-0.09}	1.20E+38	1.04E+35
1042	58725.981009935	563.8 ^{+1.2} _{-1.2}	3.0 ^{+0.6} _{-0.6}	61 ⁺⁴⁴ ₋₄₄	1099	12.33 ^{+0.09} _{-0.09}	36.90 ^{+0.05} _{-0.05}	4.17E+37	5.90E+34
1043	58725.981010156	562.8 ^{+0.8} _{-0.8}	3.0 ^{+0.7} _{-0.7}	111 ⁺³⁶ ₋₃₆	1170	11.21 ^{+0.09} _{-0.09}	33.62 ^{+0.06} _{-0.06}	3.80E+37	6.95E+34
1044	58725.981735630	563.5 ^{+1.3} _{-1.3}	9.8 ^{+3.0} _{-3.0}	73 ⁺³⁴ ₋₃₄	1121	10.33 ^{+0.08} _{-0.08}	101.51 ^{+0.23} _{-0.23}	1.15E+38	2.61E+35
1045	58725.982053901	565.3 ^{+0.8} _{-0.8}	3.4 ^{+0.4} _{-0.4}	179 ⁺⁵¹ ₋₅₁	1346	21.60 ^{+0.16} _{-0.16}	72.72 ^{+0.07} _{-0.07}	8.22E+37	7.39E+34
1046	58725.982161521	563.7 ^{+1.3} _{-1.3}	2.9 ^{+0.5} _{-0.5}	155 ⁺³⁶ ₋₃₆	1140	14.55 ^{+0.11} _{-0.11}	42.66 ^{+0.06} _{-0.06}	4.82E+37	6.33E+34
1047	58725.982318990	562.4 ^{+0.4} _{-0.4}	8.5 ^{+0.9} _{-0.9}	303 ⁺²² ₋₂₂	1229	37.88 ^{+3.25} _{-3.25}	322.74 ^{+2.83} _{-2.83}	3.45E+38	3.03E+36
1048	58725.982455881	563.7 ^{+0.3} _{-0.3}	3.5 ^{+1.2} _{-1.2}	121 ⁺¹⁴ ₋₁₄	1345	8.15 ^{+0.06} _{-0.06}	28.61 ^{+0.07} _{-0.07}	3.23E+37	8.20E+34
1049	58725.982456035	563.5 ^{+0.3} _{-0.3}	3.4 ^{+0.2} _{-0.2}	178 ⁺³¹ ₋₃₁	1400	97.32 ^{+5.55} _{-5.55}	332.83 ^{+1.28} _{-1.28}	3.56E+38	1.37E+36
1050	58725.982512209	560.8 ^{+1.0} _{-1.0}	5.9 ^{+1.3} _{-1.3}	41 ⁺²⁶ ₋₂₆	1373	13.77 ^{+0.10} _{-0.10}	80.78 ^{+0.14} _{-0.14}	9.13E+37	1.54E+35
1051	58725.982575733	564.0 ^{+0.7} _{-0.7}	2.9 ^{+0.6} _{-0.6}	70 ⁺³² ₋₃₂	1406	10.14 ^{+0.08} _{-0.08}	29.38 ^{+0.04} _{-0.04}	3.32E+37	5.03E+34
1052	58725.983180567	563.1 ^{+1.2} _{-1.2}	4.7 ^{+1.5} _{-1.5}	82 ⁺⁹ ₋₉	1077	7.96 ^{+0.06} _{-0.06}	37.21 ^{+0.09} _{-0.09}	4.21E+37	9.93E+34
1053	58725.983278351	562.3 ^{+1.2} _{-1.2}	6.0 ^{+1.4} _{-1.4}	83 ⁺⁷⁴ ₋₇₄	1125	8.52 ^{+0.06} _{-0.06}	51.46 ^{+0.09} _{-0.09}	5.82E+37	9.95E+34
1054	58725.983364649	562.9 ^{+1.0} _{-1.0}	4.6 ^{+1.2} _{-1.2}	58 ⁺⁴⁰ ₋₄₀	1361	10.99 ^{+0.08} _{-0.08}	50.76 ^{+0.09} _{-0.09}	5.74E+37	1.07E+35
1055	58725.983451663	563.1 ^{+1.1} _{-1.1}	4.1 ^{+1.1} _{-1.1}	76 ⁺⁶⁴ ₋₆₄	1320	10.91 ^{+0.08} _{-0.08}	44.98 ^{+0.09} _{-0.09}	5.08E+37	1.01E+35
1056	58725.983483818	563.7 ^{+1.2} _{-1.2}	3.7 ^{+0.7} _{-0.7}	93 ⁺²⁶ ₋₂₆	1170	12.95 ^{+0.10} _{-0.10}	48.11 ^{+0.07} _{-0.07}	5.44E+37	7.52E+34
1057	58725.983679944	563.3 ^{+1.2} _{-1.2}	4.1 ^{+0.6} _{-0.6}	114 ⁺³¹ ₋₃₁	1232	12.57 ^{+0.09} _{-0.09}	51.70 ^{+0.06} _{-0.06}	5.84E+37	6.59E+34
1058	58725.983686849	564.3 ^{+0.9} _{-0.9}	6.2 ^{+1.5} _{-1.5}	77 ⁺²³ ₋₂₃	1389	9.72 ^{+0.07} _{-0.07}	60.71 ^{+0.11} _{-0.11}	6.86E+37	1.21E+35
1059	58725.983687035	562.5 ^{+0.8} _{-0.8}	2.5 ^{+1.1} _{-1.1}	64 ⁺¹⁵ ₋₁₅	1386	7.38 ^{+0.06} _{-0.06}	18.56 ^{+0.06} _{-0.06}	2.10E+37	6.57E+34
1060	58725.983737006	563.7 ^{+1.0} _{-1.0}	4.8 ^{+1.6} _{-1.6}	58 ⁺⁴¹ ₋₄₁	1409	7.71 ^{+0.06} _{-0.06}	37.04 ^{+0.09} _{-0.09}	4.19E+37	1.05E+35
1061	58725.983737503	565.0 ^{+0.5} _{-0.5}	7.4 ^{+1.5} _{-1.5}	111 ⁺⁵⁰ ₋₅₀	1323	9.14 ^{+0.07} _{-0.07}	67.94 ^{+0.10} _{-0.10}	7.67E+37	1.17E+35
1062	58725.984135235	562.4 ^{+1.0} _{-1.0}	7.7 ^{+2.0} _{-2.0}	91 ⁺⁸⁵ ₋₈₅	1071	13.57 ^{+0.10} _{-0.10}	104.64 ^{+0.21} _{-0.21}	1.18E+38	2.33E+35
1063	58725.984516990	563.0 ^{+1.3} _{-1.3}	3.5 ^{+3.1} _{-3.1}	48 ⁺⁵ ₋₅	1418	5.02 ^{+0.04} _{-0.04}	17.44 ^{+0.12} _{-0.12}	1.97E+37	1.34E+35
1064	58725.984549490	564.2 ^{+0.9} _{-0.9}	3.7 ^{+0.7} _{-0.7}	124 ⁺³⁸ ₋₃₈	1419	14.38 ^{+0.11} _{-0.11}	53.03 ^{+0.08} _{-0.08}	5.99E+37	8.99E+34
1065	58725.984581408	563.0 ^{+1.2} _{-1.2}	2.4 ^{+0.9} _{-0.9}	102 ⁺¹⁷ ₋₁₇	1408	9.49 ^{+0.07} _{-0.07}	22.75 ^{+0.06} _{-0.06}	2.57E+37	6.95E+34
1066	58725.985410877	563.7 ^{+0.7} _{-0.7}	1.6 ^{+0.4} _{-0.4}	327 ⁺⁸⁹ ₋₈₉	1263	11.66 ^{+0.09} _{-0.09}	18.44 ^{+0.04} _{-0.04}	2.08E+37	3.99E+34
1067	58725.985718493	564.4 ^{+0.9} _{-0.9}	5.2 ^{+1.4} _{-1.4}	72 ⁺³⁵ ₋₃₅	1096	11.32 ^{+0.08} _{-0.08}	59.09 ^{+0.12} _{-0.12}	6.68E+37	1.32E+35
1068	58725.985751883	563.0 ^{+1.4} _{-1.4}	5.8 ^{+1.7} _{-1.7}	52 ⁺²² ₋₂₂	1383	9.37 ^{+0.07} _{-0.07}	54.30 ^{+0.12} _{-0.12}	6.14E+37	1.37E+35
1069	58725.986084837	564.4 ^{+0.6} _{-0.6}	3.7 ^{+0.7} _{-0.7}	169 ⁺¹² ₋₁₂	1306	17.55 ^{+0.13} _{-0.13}	65.18 ^{+0.09} _{-0.09}	7.37E+37	9.96E+34
1070	58725.986171716	563.6 ^{+1.3} _{-1.3}	4.4 ^{+0.8} _{-0.8}	82 ⁺¹²⁵ ₋₁₂₅	1142	10.95 ^{+0.08} _{-0.08}	48.66 ^{+0.07} _{-0.07}	5.50E+37	7.75E+34
1071	58725.986700180	563.6 ^{+1.2} _{-1.2}	3.4 ^{+0.5} _{-0.5}	125 ⁺⁹ ₋₉	1170	15.40 ^{+0.12} _{-0.12}	52.10 ^{+0.06} _{-0.06}	5.89E+37	6.85E+34
1072	58725.986839706	564.3 ^{+1.2} _{-1.2}	3.9 ^{+0.7} _{-0.7}	56 ⁺¹⁷ ₋₁₇	1282	14.44 ^{+0.11} _{-0.11}	56.23 ^{+0.08} _{-0.08}	6.35E+37	9.01E+34
1073	58725.987327792	565.6 ^{+0.4} _{-0.4}	3.7 ^{+0.5} _{-0.5}	306 ⁺¹²⁵ ₋₁₂₅	1226	38.81 ^{+0.28} _{-0.28}	144.02 ^{+1.21} _{-1.21}	1.54E+38	1.30E+36
1074	58725.987327814	565.6 ^{+0.4} _{-0.4}	4.0 ^{+0.2} _{-0.2}	188 ⁺¹⁹ ₋₁₉	1364	101.00 ^{+5.12} _{-5.12}	398.95 ^{+1.23} _{-1.23}	4.27E+38	1.32E+36
1075	58725.987327989	565.4 ^{+0.3} _{-0.3}	3.1 ^{+1.1} _{-1.1}	146 ⁺⁶ ₋₆	1132	6.02 ^{+0.04} _{-0.04}	18.59 ^{+0.05} _{-0.05}	2.10E+37	5.50E+34
1076	58725.987355389	563.4 ^{+1.1} _{-1.1}	3.2 ^{+0.8} _{-0.8}	149 ⁺³⁸ ₋₃₈	1409	27.74 ^{+5.52} _{-5.52}	89.32 ^{+4.36} _{-4.36}	9.56E+37	4.67E+36
1077	58725.987355582	563.1 ^{+1.2} _{-1.2}	6.3 ^{+2.1} _{-2.1}	142 ⁺⁴⁰ ₋₄₀	1406	9.21 ^{+0.07} _{-0.07}	57.78 ^{+0.14} _{-0.14}	6.53E+37	1.61E+35
1078	58725.987554141	565.1 ^{+0.9} _{-0.9}	2.5 ^{+0.5} _{-0.5}	100 ⁺⁴¹ ₋₄₁	1403	15.38 ^{+0.11} _{-0.11}	38.31 ^{+0.05} _{-0.05}	4.33E+37	5.84E+34
1079	58725.988196834	562.9 ^{+0.5} _{-0.5}	2.8 ^{+0.5} _{-0.5}	94 ⁺³⁸ ₋₃₈	1383	9.92 ^{+0.07} _{-0.07}	27.99 ^{+0.03} _{-0.03}	3.16E+37	3.89E+34
1080	58725.988986948	564.5 ^{+0.8} _{-0.8}	2.2 ^{+0.4} _{-0.4}	73 ⁺³ ₋₃	1066	12.73 ^{+0.09} _{-0.09}	27.80 ^{+0.04} _{-0.04}	3.14E+37	4.75E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1081	58725.988987027	564.8 ^{+0.5} _{-0.5}	3.0 ^{+1.0} _{-1.0}	158 ⁺⁷⁷ ₋₇₇	1327	11.30 ^{+0.08} _{-0.08}	34.29 ^{+0.08} _{-0.08}	3.88E+37	9.50E+34
1082	58725.989117418	563.6 ^{+0.5} _{-0.5}	4.3 ^{+1.1} _{-1.1}	102 ⁺²⁶ ₋₂₆	1431	15.11 ^{+0.11} _{-0.11}	65.09 ^{+0.12} _{-0.12}	7.36E+37	1.40E+35
1083	58725.989168499	562.6 ^{+1.3} _{-1.3}	2.1 ^{+0.9} _{-0.9}	54 ⁺⁵ ₋₅	1415	8.59 ^{+0.06} _{-0.06}	17.89 ^{+0.05} _{-0.05}	2.02E+37	6.12E+34
1084	58725.989168769	563.0 ^{+1.2} _{-1.2}	4.5 ^{+1.4} _{-1.4}	201 ⁺¹⁶ ₋₁₆	1255	9.39 ^{+0.07} _{-0.07}	42.05 ^{+0.10} _{-0.10}	4.75E+37	1.08E+35
1085	58725.989326395	562.5 ^{+1.3} _{-1.3}	3.7 ^{+0.5} _{-0.5}	67 ⁺³⁴ ₋₃₄	1381	9.24 ^{+0.07} _{-0.07}	34.60 ^{+0.29} _{-0.29}	3.70E+37	3.07E+35
1086	58725.990296165	564.0 ^{+1.2} _{-1.2}	3.8 ^{+1.6} _{-1.6}	103 ⁺³ ₋₃	1359	9.13 ^{+0.07} _{-0.07}	34.29 ^{+0.11} _{-0.11}	3.87E+37	1.21E+35
1087	58725.990707538	563.1 ^{+1.1} _{-1.1}	2.2 ^{+0.7} _{-0.7}	48 ⁺¹¹ ₋₁₁	1415	6.35 ^{+0.05} _{-0.05}	14.03 ^{+0.03} _{-0.03}	1.59E+37	3.48E+34
1088	58725.991445910	565.0 ^{+0.7} _{-0.7}	4.3 ^{+0.6} _{-0.6}	165 ⁺⁵⁹ ₋₅₉	1408	20.67 ^{+0.15} _{-0.15}	88.89 ^{+0.09} _{-0.09}	1.00E+38	1.05E+35
1089	58725.991517884	563.1 ^{+1.0} _{-1.0}	2.0 ^{+1.2} _{-1.2}	227 ⁺⁷⁹ ₋₇₉	1217	4.61 ^{+0.03} _{-0.03}	9.35 ^{+0.04} _{-0.04}	1.06E+37	4.46E+34
1090	58725.991979760	564.5 ^{+0.9} _{-0.9}	4.5 ^{+1.3} _{-1.3}	70 ⁺⁴⁸ ₋₄₈	1326	10.54 ^{+0.08} _{-0.08}	47.91 ^{+0.10} _{-0.10}	5.41E+37	1.13E+35
1091	58725.992113523	563.6 ^{+1.0} _{-1.0}	4.3 ^{+1.3} _{-1.3}	155 ⁺³ ₋₃	1178	10.61 ^{+0.08} _{-0.08}	45.65 ^{+0.10} _{-0.10}	5.16E+37	1.10E+35
1092	58725.992422122	563.3 ^{+1.2} _{-1.2}	4.6 ^{+2.0} _{-2.0}	256 ⁺⁸ ₋₈	1228	6.33 ^{+0.05} _{-0.05}	29.07 ^{+0.09} _{-0.09}	3.28E+37	1.03E+35
1093	58725.992422431	561.5 ^{+0.9} _{-0.9}	4.7 ^{+2.2} _{-2.2}	82 ⁺¹⁷ ₋₁₇	1114	6.53 ^{+0.05} _{-0.05}	30.73 ^{+0.10} _{-0.10}	3.47E+37	1.18E+35
1094	58725.992512464	564.3 ^{+0.4} _{-0.4}	5.1 ^{+2.9} _{-2.9}	96 ⁺¹² ₋₁₂	1160	4.70 ^{+0.03} _{-0.03}	23.87 ^{+0.10} _{-0.10}	2.70E+37	1.12E+35
1095	58725.992775975	563.9 ^{+0.4} _{-0.4}	3.1 ^{+0.6} _{-0.6}	88 ⁺²³ ₋₂₃	1406	15.27 ^{+0.11} _{-0.11}	47.50 ^{+0.07} _{-0.07}	5.37E+37	8.01E+34
1096	58725.993109442	563.0 ^{+1.0} _{-1.0}	3.2 ^{+0.5} _{-0.5}	110 ⁺¹¹ ₋₁₁	1085	9.01 ^{+0.07} _{-0.07}	28.75 ^{+0.24} _{-0.24}	3.08E+37	2.58E+35
1097	58725.993446452	564.4 ^{+1.1} _{-1.1}	2.7 ^{+0.4} _{-0.4}	156 ⁺⁸ ₋₈	1408	17.83 ^{+0.13} _{-0.13}	47.52 ^{+0.40} _{-0.40}	5.09E+37	4.24E+35
1098	58725.993632417	562.8 ^{+1.2} _{-1.2}	4.9 ^{+1.3} _{-1.3}	115 ⁺³² ₋₃₂	1381	9.27 ^{+0.07} _{-0.07}	45.52 ^{+0.09} _{-0.09}	5.14E+37	9.76E+34
1099	58725.993634669	561.8 ^{+0.6} _{-0.6}	5.3 ^{+0.6} _{-0.6}	125 ⁺⁹ ₋₉	1430	42.43 ^{+4.15} _{-4.15}	224.03 ^{+2.61} _{-2.61}	2.40E+38	2.80E+36
1100	58725.993812826	563.3 ^{+1.2} _{-1.2}	4.5 ^{+1.8} _{-1.8}	92 ⁺²³ ₋₂₃	1355	10.97 ^{+0.08} _{-0.08}	49.35 ^{+0.14} _{-0.14}	5.58E+37	1.60E+35
1101	58725.993812956	564.2 ^{+0.7} _{-0.7}	4.3 ^{+0.9} _{-0.9}	71 ⁺¹³ ₋₁₃	1198	12.64 ^{+0.09} _{-0.09}	54.46 ^{+0.08} _{-0.08}	6.15E+37	9.54E+34
1102	58725.994312065	562.7 ^{+1.2} _{-1.2}	4.5 ^{+0.6} _{-0.6}	136 ⁺⁸² ₋₈₂	1145	9.07 ^{+0.07} _{-0.07}	40.56 ^{+0.34} _{-0.34}	4.34E+37	3.61E+35
1103	58725.994422211	562.7 ^{+1.0} _{-1.0}	4.8 ^{+1.0} _{-1.0}	62 ⁺²⁶ ₋₂₆	1362	10.41 ^{+0.08} _{-0.08}	50.24 ^{+0.08} _{-0.08}	5.68E+37	8.81E+34
1104	58725.995167345	562.1 ^{+0.6} _{-0.6}	3.6 ^{+0.6} _{-0.6}	52 ⁺¹⁴ ₋₁₄	1141	12.98 ^{+0.10} _{-0.10}	47.02 ^{+0.06} _{-0.06}	5.31E+37	6.54E+34
1105	58725.995219633	563.2 ^{+1.3} _{-1.3}	6.3 ^{+0.7} _{-0.7}	48 ⁺²¹ ₋₂₁	1371	9.78 ^{+0.07} _{-0.07}	61.33 ^{+0.05} _{-0.05}	6.93E+37	5.97E+34
1106	58725.995389007	564.0 ^{+0.8} _{-0.8}	5.3 ^{+0.6} _{-0.6}	68 ⁺⁴³ ₋₄₃	1280	41.07 ^{+4.18} _{-4.18}	218.90 ^{+2.63} _{-2.63}	2.34E+38	2.82E+36
1107	58725.995561413	562.7 ^{+1.0} _{-1.0}	5.6 ^{+2.5} _{-2.5}	112 ⁺³⁹ ₋₃₉	1188	7.69 ^{+0.06} _{-0.06}	43.25 ^{+0.14} _{-0.14}	4.89E+37	1.61E+35
1108	58725.995647444	564.2 ^{+0.7} _{-0.7}	4.1 ^{+1.5} _{-1.5}	67 ⁺³ ₋₃	1399	7.84 ^{+0.06} _{-0.06}	31.94 ^{+0.08} _{-0.08}	3.61E+37	9.57E+34
1109	58725.995793880	562.9 ^{+1.3} _{-1.3}	5.0 ^{+1.6} _{-1.6}	84 ⁺²³ ₋₂₃	1355	9.01 ^{+0.07} _{-0.07}	45.20 ^{+0.11} _{-0.11}	5.11E+37	1.21E+35
1110	58725.995798924	563.9 ^{+1.1} _{-1.1}	10.6 ^{+1.9} _{-1.9}	256 ⁺⁴³ ₋₄₃	1324	28.35 ^{+3.20} _{-3.20}	301.08 ^{+5.98} _{-5.98}	3.22E+38	6.41E+36
1111	58725.995799023	563.9 ^{+1.1} _{-1.1}	3.1 ^{+0.9} _{-0.9}	215 ⁺¹⁰¹ ₋₁₀₁	1301	27.44 ^{+6.10} _{-6.10}	85.89 ^{+5.43} _{-5.43}	9.19E+37	5.81E+36
1112	58725.995977548	563.9 ^{+0.3} _{-0.3}	2.3 ^{+0.2} _{-0.2}	85 ⁺⁵⁷ ₋₅₇	1412	89.95 ^{+6.85} _{-6.85}	208.68 ^{+1.44} _{-1.44}	2.23E+38	1.54E+36
1113	58725.995977554	563.9 ^{+0.3} _{-0.3}	2.5 ^{+0.4} _{-0.4}	230 ⁺⁴⁹ ₋₄₉	1365	25.21 ^{+0.18} _{-0.18}	61.78 ^{+0.51} _{-0.51}	6.61E+37	5.49E+35
1114	58725.996305704	562.0 ^{+1.2} _{-1.2}	3.6 ^{+0.2} _{-0.2}	220 ⁺²³ ₋₂₃	1389	130.13 ^{+5.33} _{-5.33}	471.07 ^{+0.96} _{-0.96}	5.04E+38	1.03E+36
1115	58725.996305708	562.0 ^{+1.2} _{-1.2}	3.7 ^{+0.5} _{-0.5}	203 ⁺⁹ ₋₉	1398	38.46 ^{+0.28} _{-0.28}	143.83 ^{+1.20} _{-1.20}	1.54E+38	1.28E+36
1116	58725.996317914	564.0 ^{+1.0} _{-1.0}	3.2 ^{+0.8} _{-0.8}	110 ⁺³³ ₋₃₃	1397	10.29 ^{+0.07} _{-0.07}	32.98 ^{+0.06} _{-0.06}	3.73E+37	6.81E+34
1117	58725.996336306	563.0 ^{+1.2} _{-1.2}	5.5 ^{+0.8} _{-0.8}	278 ⁺¹³ ₋₁₃	1294	13.98 ^{+0.10} _{-0.10}	76.99 ^{+0.64} _{-0.64}	8.24E+37	6.88E+35
1118	58725.996411143	563.6 ^{+0.3} _{-0.3}	3.1 ^{+1.2} _{-1.2}	175 ⁺³² ₋₃₂	1367	8.25 ^{+0.06} _{-0.06}	25.58 ^{+0.07} _{-0.07}	2.89E+37	8.10E+34
1119	58725.996434979	563.9 ^{+0.6} _{-0.6}	3.1 ^{+1.4} _{-1.4}	46 ⁺³¹ ₋₃₁	1393	6.66 ^{+0.05} _{-0.05}	20.59 ^{+0.07} _{-0.07}	2.33E+37	7.59E+34
1120	58725.996470921	565.1 ^{+0.5} _{-0.5}	2.8 ^{+0.5} _{-0.5}	99 ⁺⁵⁴ ₋₅₄	1229	12.76 ^{+0.09} _{-0.09}	36.35 ^{+0.05} _{-0.05}	4.11E+37	5.54E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1121	58725.996886763	563.4 ^{+1.2} _{-1.2}	2.5 ^{+0.6} _{-0.6}	76 ⁺²¹ ₋₂₁	1426	10.57 ^{+0.08} _{-0.08}	26.43 ^{+0.04} _{-0.04}	2.99E+37	4.86E+34
1122	58725.997116799	563.2 ^{+1.2} _{-1.2}	3.4 ^{+0.7} _{-0.7}	75 ⁺⁴ ₋₄	1382	9.48 ^{+0.07} _{-0.07}	32.49 ^{+0.05} _{-0.05}	3.67E+37	5.57E+34
1123	58725.997116953	562.0 ^{+0.8} _{-0.8}	3.9 ^{+2.8} _{-2.8}	76 ⁺³¹ ₋₃₁	1378	4.69 ^{+0.04} _{-0.04}	18.07 ^{+0.10} _{-0.10}	2.04E+37	1.12E+35
1124	58725.997117356	561.0 ^{+0.2} _{-0.2}	2.5 ^{+1.4} _{-1.4}	101 ⁺⁷ ₋₇	1199	4.52 ^{+0.03} _{-0.03}	11.25 ^{+0.04} _{-0.04}	1.27E+37	5.05E+34
1125	58725.997406281	563.5 ^{+1.3} _{-1.3}	4.8 ^{+1.9} _{-1.9}	80 ⁺³⁴ ₋₃₄	1126	8.31 ^{+0.06} _{-0.06}	40.06 ^{+0.12} _{-0.12}	4.53E+37	1.32E+35
1126	58725.998016099	563.3 ^{+1.0} _{-1.0}	4.3 ^{+1.0} _{-1.0}	108 ⁺²⁶ ₋₂₆	1406	11.96 ^{+0.09} _{-0.09}	51.15 ^{+0.08} _{-0.08}	5.78E+37	9.58E+34
1127	58725.998327687	563.5 ^{+0.4} _{-0.4}	2.2 ^{+0.4} _{-0.4}	89 ⁺³⁴ ₋₃₄	1382	18.25 ^{+0.13} _{-0.13}	39.72 ^{+0.05} _{-0.05}	4.49E+37	5.56E+34
1128	58725.998543364	563.6 ^{+1.2} _{-1.2}	8.5 ^{+1.2} _{-1.2}	96 ⁺¹⁹ ₋₁₉	1340	7.70 ^{+0.06} _{-0.06}	65.66 ^{+0.55} _{-0.55}	7.03E+37	5.85E+35
1129	58725.999153721	564.9 ^{+1.1} _{-1.1}	5.5 ^{+0.6} _{-0.6}	127 ⁺¹⁸ ₋₁₈	1305	47.50 ^{+4.31} _{-4.31}	262.20 ^{+2.50} _{-2.50}	2.81E+38	2.68E+36
1130	58726.918365897	563.2 ^{+1.2} _{-1.2}	11.3 ^{+3.6} _{-3.6}	50 ⁺¹⁶ ₋₁₆	1390	5.23 ^{+0.06} _{-0.06}	58.84 ^{+0.23} _{-0.23}	6.65E+37	2.62E+35
1131	58726.918366009	564.0 ^{+1.2} _{-1.2}	7.6 ^{+2.3} _{-2.3}	66 ⁺⁵ ₋₅	1347	5.06 ^{+0.06} _{-0.06}	38.64 ^{+0.14} _{-0.14}	4.36E+37	1.58E+35
1132	58726.919267327	564.1 ^{+0.1} _{-0.1}	2.6 ^{+0.2} _{-0.2}	221 ⁺²⁴ ₋₂₄	1387	142.99 ^{+7.29} _{-7.29}	371.77 ^{+1.09} _{-1.09}	3.98E+38	1.17E+36
1133	58726.919462233	563.6 ^{+1.2} _{-1.2}	8.2 ^{+1.6} _{-1.6}	100 ⁺⁴ ₋₄	1383	6.35 ^{+0.08} _{-0.08}	52.35 ^{+0.12} _{-0.12}	5.92E+37	1.36E+35
1134	58726.919819344	562.5 ^{+0.4} _{-0.4}	3.4 ^{+0.5} _{-0.5}	59 ⁺²⁵ ₋₂₅	1098	11.91 ^{+0.14} _{-0.14}	40.02 ^{+0.55} _{-0.55}	4.28E+37	5.89E+35
1135	58726.920284004	563.0 ^{+1.3} _{-1.3}	4.5 ^{+1.3} _{-1.3}	250 ⁺⁵⁴ ₋₅₄	1246	5.03 ^{+0.06} _{-0.06}	22.73 ^{+0.08} _{-0.08}	2.57E+37	8.67E+34
1136	58726.920819903	562.1 ^{+0.7} _{-0.7}	11.1 ^{+4.0} _{-4.0}	165 ⁺⁹¹ ₋₉₁	1220	4.79 ^{+0.06} _{-0.06}	53.02 ^{+0.23} _{-0.23}	5.99E+37	2.55E+35
1137	58726.921265551	563.4 ^{+1.2} _{-1.2}	2.4 ^{+0.5} _{-0.5}	89 ⁺¹² ₋₁₂	1175	10.28 ^{+0.12} _{-0.12}	25.16 ^{+0.06} _{-0.06}	2.84E+37	6.52E+34
1138	58726.921849244	563.0 ^{+1.2} _{-1.2}	6.9 ^{+2.6} _{-2.6}	119 ⁺⁴⁰ ₋₄₀	1187	4.99 ^{+0.06} _{-0.06}	34.60 ^{+0.15} _{-0.15}	3.91E+37	1.73E+35
1139	58726.922349861	563.4 ^{+1.3} _{-1.3}	7.5 ^{+1.1} _{-1.1}	72 ⁺¹¹ ₋₁₁	1128	8.30 ^{+0.10} _{-0.10}	62.49 ^{+0.84} _{-0.84}	6.69E+37	9.03E+35
1140	58726.922755731	564.2 ^{+1.2} _{-1.2}	2.8 ^{+0.7} _{-0.7}	67 ⁺³ ₋₃	1108	6.18 ^{+0.07} _{-0.07}	17.08 ^{+0.05} _{-0.05}	1.93E+37	5.66E+34
1141	58726.923033465	562.8 ^{+0.6} _{-0.6}	7.4 ^{+1.1} _{-1.1}	107 ⁺⁴ ₋₄	1092	8.06 ^{+0.09} _{-0.09}	59.53 ^{+0.79} _{-0.79}	6.37E+37	8.51E+35
1142	58726.923082484	563.5 ^{+1.1} _{-1.1}	6.7 ^{+1.7} _{-1.7}	140 ⁺⁵ ₋₅	1305	6.42 ^{+0.07} _{-0.07}	43.19 ^{+0.13} _{-0.13}	4.88E+37	1.43E+35
1143	58726.924545709	562.5 ^{+1.2} _{-1.2}	2.6 ^{+0.8} _{-0.8}	86 ⁺⁴⁹ ₋₄₉	1377	5.82 ^{+0.07} _{-0.07}	15.13 ^{+0.05} _{-0.05}	1.71E+37	6.08E+34
1144	58726.924567211	564.0 ^{+1.5} _{-1.5}	5.4 ^{+1.0} _{-1.0}	47 ⁺²⁵ ₋₂₅	1403	9.50 ^{+0.11} _{-0.11}	51.45 ^{+0.11} _{-0.11}	5.81E+37	1.28E+35
1145	58726.924567494	563.8 ^{+1.1} _{-1.1}	5.4 ^{+2.6} _{-2.6}	25 ⁺⁵ ₋₅	1428	4.65 ^{+0.05} _{-0.05}	25.26 ^{+0.14} _{-0.14}	2.85E+37	1.57E+35
1146	58726.924744584	564.5 ^{+1.1} _{-1.1}	2.4 ^{+0.6} _{-0.6}	60 ⁺⁵ ₋₅	1135	8.54 ^{+0.10} _{-0.10}	20.75 ^{+0.06} _{-0.06}	2.35E+37	6.32E+34
1147	58726.924770886	562.8 ^{+1.2} _{-1.2}	5.6 ^{+1.4} _{-1.4}	336 ⁺⁴ ₋₄	1207	8.18 ^{+0.10} _{-0.10}	46.15 ^{+0.13} _{-0.13}	5.21E+37	1.52E+35
1148	58726.924855553	564.6 ^{+0.8} _{-0.8}	4.4 ^{+0.6} _{-0.6}	197 ⁺²² ₋₂₂	1345	12.60 ^{+0.15} _{-0.15}	56.05 ^{+0.74} _{-0.74}	6.00E+37	7.95E+35
1149	58726.925288179	563.8 ^{+0.8} _{-0.8}	3.3 ^{+0.5} _{-0.5}	73 ⁺²⁶ ₋₂₆	1394	13.90 ^{+0.16} _{-0.16}	46.12 ^{+0.61} _{-0.61}	4.94E+37	6.54E+35
1150	58726.925332579	564.2 ^{+1.1} _{-1.1}	7.3 ^{+2.2} _{-2.2}	59 ⁺¹² ₋₁₂	1071	5.04 ^{+0.06} _{-0.06}	37.00 ^{+0.13} _{-0.13}	4.18E+37	1.44E+35
1151	58726.925602140	563.2 ^{+1.1} _{-1.1}	5.1 ^{+1.4} _{-1.4}	233 ⁺⁴⁸ ₋₄₈	1303	7.33 ^{+0.09} _{-0.09}	37.24 ^{+0.12} _{-0.12}	4.21E+37	1.30E+35
1152	58726.926146322	562.8 ^{+0.6} _{-0.6}	4.5 ^{+0.8} _{-0.8}	107 ⁺¹⁷ ₋₁₇	1217	12.89 ^{+0.15} _{-0.15}	57.42 ^{+0.12} _{-0.12}	6.49E+37	1.33E+35
1153	58726.926380201	562.9 ^{+1.2} _{-1.2}	5.0 ^{+1.4} _{-1.4}	107 ⁺⁵ ₋₅	1199	6.01 ^{+0.07} _{-0.07}	29.89 ^{+0.10} _{-0.10}	3.38E+37	1.10E+35
1154	58726.926380658	563.8 ^{+1.1} _{-1.1}	2.8 ^{+0.5} _{-0.5}	89 ⁺³⁷ ₋₃₇	1145	8.44 ^{+0.10} _{-0.10}	23.29 ^{+0.05} _{-0.05}	2.63E+37	5.38E+34
1155	58726.927571143	563.8 ^{+1.2} _{-1.2}	5.3 ^{+1.0} _{-1.0}	158 ⁺¹⁵ ₋₁₅	1247	10.11 ^{+0.12} _{-0.12}	53.19 ^{+0.12} _{-0.12}	6.01E+37	1.31E+35
1156	58726.927639561	563.4 ^{+0.5} _{-0.5}	2.9 ^{+0.5} _{-0.5}	89 ⁺⁵⁰ ₋₅₀	1373	11.46 ^{+0.13} _{-0.13}	33.50 ^{+0.06} _{-0.06}	3.79E+37	7.33E+34
1157	58726.927656162	563.1 ^{+1.4} _{-1.4}	11.0 ^{+2.9} _{-2.9}	50 ⁺¹⁰ ₋₁₀	1310	4.78 ^{+0.05} _{-0.05}	52.63 ^{+0.16} _{-0.16}	5.95E+37	1.77E+35
1158	58726.928485933	563.3 ^{+1.3} _{-1.3}	5.8 ^{+1.3} _{-1.3}	103 ⁺¹²⁰ ₋₁₂₀	1097	5.87 ^{+0.07} _{-0.07}	34.01 ^{+0.09} _{-0.09}	3.84E+37	9.75E+34
1159	58726.928486227	563.3 ^{+1.2} _{-1.2}	4.4 ^{+0.6} _{-0.6}	43 ⁺²⁷ ₋₂₇	1080	11.36 ^{+0.13} _{-0.13}	50.50 ^{+0.65} _{-0.65}	5.41E+37	6.97E+35
1160	58726.928796032	563.9 ^{+1.1} _{-1.1}	7.0 ^{+1.0} _{-1.0}	150 ⁺²⁹ ₋₂₉	1088	14.02 ^{+0.16} _{-0.16}	97.52 ^{+1.26} _{-1.26}	1.04E+38	1.35E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1161	58726.929311009	564.6 ^{+0.5} _{-0.5}	3.5 ^{+0.7} _{-0.7}	88 ⁺²⁵ ₋₂₅	1358	12.16 ^{+0.14} _{-0.14}	43.10 ^{+0.09} _{-0.09}	4.87E+37	1.01E+35
1162	58726.930224073	563.3 ^{+0.4} _{-0.4}	2.1 ^{+0.2} _{-0.2}	73 ⁺³⁷ ₋₃₇	1326	93.53 ^{+7.66} _{-7.66}	193.61 ^{+1.53} _{-1.53}	2.07E+38	1.64E+36
1163	58726.930224086	563.3 ^{+0.4} _{-0.4}	2.6 ^{+0.4} _{-0.4}	280 ⁺²⁵ ₋₂₅	1304	18.27 ^{+0.20} _{-0.20}	48.13 ^{+0.62} _{-0.62}	5.15E+37	6.58E+35
1164	58726.930399770	563.8 ^{+1.0} _{-1.0}	4.4 ^{+0.6} _{-0.6}	212 ⁺³¹ ₋₃₁	1284	14.59 ^{+0.16} _{-0.16}	64.71 ^{+0.83} _{-0.83}	6.93E+37	8.85E+35
1165	58726.930400835	563.1 ^{+1.3} _{-1.3}	2.7 ^{+0.4} _{-0.4}	133 ⁺⁴ ₋₄	1236	8.46 ^{+0.10} _{-0.10}	22.87 ^{+0.04} _{-0.04}	2.58E+37	4.34E+34
1166	58726.931574068	563.3 ^{+1.1} _{-1.1}	2.8 ^{+0.7} _{-0.7}	62 ⁺²⁶ ₋₂₆	1350	5.68 ^{+0.06} _{-0.06}	15.73 ^{+0.04} _{-0.04}	1.78E+37	4.85E+34
1167	58726.932067646	563.1 ^{+1.3} _{-1.3}	7.4 ^{+2.4} _{-2.4}	80 ⁺⁴ ₋₄	1298	5.28 ^{+0.06} _{-0.06}	39.29 ^{+0.14} _{-0.14}	4.44E+37	1.57E+35
1168	58726.932167288	562.3 ^{+1.2} _{-1.2}	6.3 ^{+1.4} _{-1.4}	91 ⁺¹³ ₋₁₃	1216	5.68 ^{+0.06} _{-0.06}	35.57 ^{+0.09} _{-0.09}	4.02E+37	9.75E+34
1169	58726.932343664	563.1 ^{+1.1} _{-1.1}	3.7 ^{+0.8} _{-0.8}	128 ⁺⁵ ₋₅	1325	7.43 ^{+0.08} _{-0.08}	27.46 ^{+0.07} _{-0.07}	3.10E+37	7.63E+34
1170	58726.932620610	563.4 ^{+1.3} _{-1.3}	2.5 ^{+1.1} _{-1.1}	98 ⁺⁹⁴ ₋₉₄	1120	3.98 ^{+0.04} _{-0.04}	9.88 ^{+0.05} _{-0.05}	1.12E+37	5.43E+34
1171	58726.932621052	563.6 ^{+1.2} _{-1.2}	5.2 ^{+0.5} _{-0.5}	296 ⁺²⁷ ₋₂₇	1268	62.56 ^{+4.98} _{-4.98}	322.81 ^{+2.39} _{-2.39}	3.46E+38	2.56E+36
1172	58726.933154579	563.7 ^{+1.2} _{-1.2}	5.1 ^{+1.0} _{-1.0}	92 ⁺²³ ₋₂₃	1262	7.64 ^{+0.08} _{-0.08}	38.65 ^{+0.08} _{-0.08}	4.37E+37	9.35E+34
1173	58726.933388395	563.6 ^{+1.0} _{-1.0}	3.7 ^{+0.9} _{-0.9}	82 ⁺⁴ ₋₄	1397	7.18 ^{+0.08} _{-0.08}	26.48 ^{+0.07} _{-0.07}	2.99E+37	8.07E+34
1174	58726.933418086	565.1 ^{+0.8} _{-0.8}	2.7 ^{+0.3} _{-0.3}	118 ⁺²² ₋₂₂	1210	18.19 ^{+0.20} _{-0.20}	49.17 ^{+0.06} _{-0.06}	5.56E+37	6.71E+34
1175	58726.933529172	563.1 ^{+1.4} _{-1.4}	4.8 ^{+1.1} _{-1.1}	97 ⁺⁷ ₋₇	1380	7.53 ^{+0.08} _{-0.08}	35.88 ^{+0.09} _{-0.09}	4.05E+37	1.01E+35
1176	58726.933647678	563.9 ^{+1.4} _{-1.4}	3.5 ^{+0.5} _{-0.5}	149 ⁺¹⁷ ₋₁₇	1172	14.44 ^{+0.16} _{-0.16}	50.44 ^{+0.08} _{-0.08}	5.70E+37	9.46E+34
1177	58726.935172774	563.1 ^{+1.1} _{-1.1}	4.4 ^{+0.8} _{-0.8}	85 ⁺²⁴ ₋₂₄	1100	8.29 ^{+0.09} _{-0.09}	36.42 ^{+0.07} _{-0.07}	4.12E+37	8.43E+34
1178	58726.935650190	563.5 ^{+1.2} _{-1.2}	4.0 ^{+0.6} _{-0.6}	58 ⁺⁴⁸ ₋₄₈	1280	8.48 ^{+0.09} _{-0.09}	33.68 ^{+0.06} _{-0.06}	3.81E+37	6.50E+34
1179	58726.935969572	564.1 ^{+0.8} _{-0.8}	5.5 ^{+0.9} _{-0.9}	140 ⁺²⁴ ₋₂₄	1372	10.84 ^{+0.12} _{-0.12}	59.51 ^{+0.11} _{-0.11}	6.72E+37	1.21E+35
1180	58726.935969892	563.2 ^{+1.5} _{-1.5}	2.3 ^{+1.4} _{-1.4}	84 ⁺⁹ ₋₉	1446	6.97 ^{+0.07} _{-0.07}	15.99 ^{+0.11} _{-0.11}	1.81E+37	1.22E+35
1181	58726.935970028	563.8 ^{+1.2} _{-1.2}	9.1 ^{+1.1} _{-1.1}	256 ⁺⁹ ₋₉	1366	13.34 ^{+0.14} _{-0.14}	120.95 ^{+0.15} _{-0.15}	1.37E+38	1.74E+35
1182	58726.936061816	562.9 ^{+1.1} _{-1.1}	4.5 ^{+1.5} _{-1.5}	56 ⁺¹⁸ ₋₁₈	1147	5.98 ^{+0.06} _{-0.06}	27.04 ^{+0.09} _{-0.09}	3.06E+37	1.05E+35
1183	58726.936309828	563.4 ^{+1.3} _{-1.3}	3.0 ^{+0.7} _{-0.7}	50 ⁺¹⁵ ₋₁₅	1423	7.80 ^{+0.08} _{-0.08}	23.66 ^{+0.06} _{-0.06}	2.67E+37	6.81E+34
1184	58726.936544747	562.9 ^{+1.3} _{-1.3}	6.5 ^{+2.0} _{-2.0}	108 ⁺¹⁹ ₋₁₉	1211	6.41 ^{+0.07} _{-0.07}	41.43 ^{+0.14} _{-0.14}	4.68E+37	1.53E+35
1185	58726.936632389	563.6 ^{+1.2} _{-1.2}	7.0 ^{+1.0} _{-1.0}	95 ⁺¹⁴ ₋₁₄	1148	10.70 ^{+0.11} _{-0.11}	75.38 ^{+0.11} _{-0.11}	8.52E+37	1.28E+35
1186	58726.936632679	562.6 ^{+1.2} _{-1.2}	2.7 ^{+1.2} _{-1.2}	59 ⁺⁸ ₋₈	1104	5.57 ^{+0.06} _{-0.06}	14.88 ^{+0.07} _{-0.07}	1.68E+37	8.33E+34
1187	58726.936797806	565.3 ^{+0.5} _{-0.5}	9.0 ^{+0.5} _{-0.5}	205 ⁺¹¹ ₋₁₁	1239	85.79 ^{+3.64} _{-3.64}	774.68 ^{+1.67} _{-1.67}	8.29E+38	1.79E+36
1188	58726.936990851	563.2 ^{+1.2} _{-1.2}	3.5 ^{+1.5} _{-1.5}	52 ⁺¹⁶ ₋₁₆	1386	4.73 ^{+0.05} _{-0.05}	16.70 ^{+0.08} _{-0.08}	1.89E+37	8.64E+34
1189	58726.937301650	563.4 ^{+1.3} _{-1.3}	7.8 ^{+2.0} _{-2.0}	129 ⁺³⁸ ₋₃₈	1206	6.32 ^{+0.07} _{-0.07}	49.21 ^{+0.13} _{-0.13}	5.56E+37	1.50E+35
1190	58726.937886757	563.2 ^{+0.9} _{-0.9}	2.9 ^{+0.4} _{-0.4}	118 ⁺¹²⁴ ₋₁₂₄	1116	7.32 ^{+0.08} _{-0.08}	21.09 ^{+0.25} _{-0.25}	2.26E+37	2.72E+35
1191	58726.938060905	563.3 ^{+1.0} _{-1.0}	3.8 ^{+0.8} _{-0.8}	161 ⁺¹²¹ ₋₁₂₁	1135	7.48 ^{+0.08} _{-0.08}	28.68 ^{+0.06} _{-0.06}	3.24E+37	7.34E+34
1192	58726.938996753	563.3 ^{+1.1} _{-1.1}	4.4 ^{+1.2} _{-1.2}	92 ⁺²⁵ ₋₂₅	1113	6.73 ^{+0.07} _{-0.07}	29.58 ^{+0.08} _{-0.08}	3.34E+37	9.19E+34
1193	58726.939059116	563.0 ^{+0.1} _{-0.1}	2.6 ^{+0.1} _{-0.1}	89 ⁺¹⁰ ₋₁₀	1419	178.31 ^{+6.54} _{-6.54}	465.39 ^{+0.72} _{-0.72}	4.98E+38	7.70E+35
1194	58726.939059137	562.9 ^{+0.1} _{-0.1}	4.2 ^{+0.6} _{-0.6}	314 ⁺¹⁰ ₋₁₀	1305	36.12 ^{+0.38} _{-0.38}	152.23 ^{+1.81} _{-1.81}	1.63E+38	1.94E+36
1195	58726.939169013	563.5 ^{+1.2} _{-1.2}	5.7 ^{+0.9} _{-0.9}	72 ⁺¹¹ ₋₁₁	1388	8.02 ^{+0.08} _{-0.08}	45.85 ^{+0.07} _{-0.07}	5.18E+37	8.34E+34
1196	58726.939169359	563.9 ^{+1.3} _{-1.3}	2.2 ^{+0.3} _{-0.3}	71 ⁺²⁴ ₋₂₄	1413	15.02 ^{+0.16} _{-0.16}	32.33 ^{+0.38} _{-0.38}	3.46E+37	4.11E+35
1197	58726.939688699	564.1 ^{+1.0} _{-1.0}	2.7 ^{+1.3} _{-1.3}	178 ⁺¹¹⁸ ₋₁₁₈	1151	4.10 ^{+0.04} _{-0.04}	11.01 ^{+0.05} _{-0.05}	1.24E+37	6.06E+34
1198	58726.940239234	563.2 ^{+1.2} _{-1.2}	2.6 ^{+0.5} _{-0.5}	142 ⁺⁸⁴ ₋₈₄	1152	10.55 ^{+0.11} _{-0.11}	27.80 ^{+0.06} _{-0.06}	3.14E+37	6.44E+34
1199	58726.940239462	562.7 ^{+1.0} _{-1.0}	5.8 ^{+1.3} _{-1.3}	106 ⁺⁵³ ₋₅₃	1196	8.49 ^{+0.09} _{-0.09}	49.67 ^{+0.12} _{-0.12}	5.61E+37	1.31E+35
1200	58726.941562492	561.4 ^{+0.9} _{-0.9}	4.0 ^{+1.1} _{-1.1}	139 ⁺¹⁰² ₋₁₀₂	1381	6.65 ^{+0.07} _{-0.07}	26.72 ^{+0.07} _{-0.07}	3.02E+37	8.37E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1201	58726.942652092	562.3 ^{+1.2} _{-1.2}	2.6 ^{+0.4} _{-0.4}	66 ⁺²⁶ ₋₂₆	1424	12.02 ^{+0.12} _{-0.12}	31.26 ^{+0.05} _{-0.05}	3.53E+37	5.24E+34
1202	58726.942925489	563.2 ^{+1.3} _{-1.3}	7.1 ^{+1.4} _{-1.4}	144 ⁺³⁹ ₋₃₉	1159	8.57 ^{+0.09} _{-0.09}	60.56 ^{+0.12} _{-0.12}	6.84E+37	1.34E+35
1203	58726.943311310	563.0 ^{+1.2} _{-1.2}	6.7 ^{+1.0} _{-1.0}	45 ⁺¹⁴ ₋₁₄	1341	5.50 ^{+0.06} _{-0.06}	37.02 ^{+0.42} _{-0.42}	3.96E+37	4.54E+35
1204	58726.943486317	563.5 ^{+1.2} _{-1.2}	2.9 ^{+0.8} _{-0.8}	59 ⁺⁸ ₋₈	1335	8.78 ^{+0.09} _{-0.09}	25.21 ^{+0.07} _{-0.07}	2.85E+37	7.47E+34
1205	58726.944446079	564.4 ^{+1.0} _{-1.0}	2.9 ^{+0.5} _{-0.5}	243 ⁺⁸² ₋₈₂	1312	7.51 ^{+0.07} _{-0.07}	21.78 ^{+0.04} _{-0.04}	2.46E+37	4.20E+34
1206	58726.944446564	563.4 ^{+1.1} _{-1.1}	3.6 ^{+1.5} _{-1.5}	153 ⁺⁶ ₋₆	1307	5.18 ^{+0.05} _{-0.05}	18.54 ^{+0.08} _{-0.08}	2.10E+37	9.10E+34
1207	58726.945749033	564.3 ^{+1.0} _{-1.0}	3.2 ^{+0.5} _{-0.5}	111 ⁺³⁰ ₋₃₀	1373	11.50 ^{+0.11} _{-0.11}	36.76 ^{+0.06} _{-0.06}	4.15E+37	7.06E+34
1208	58726.946045496	563.5 ^{+1.1} _{-1.1}	6.4 ^{+1.4} _{-1.4}	109 ⁺⁹ ₋₉	1384	7.10 ^{+0.07} _{-0.07}	45.55 ^{+0.10} _{-0.10}	5.15E+37	1.14E+35
1209	58726.946128987	563.7 ^{+1.1} _{-1.1}	3.4 ^{+1.5} _{-1.5}	90 ⁺⁹ ₋₉	1321	6.07 ^{+0.06} _{-0.06}	20.47 ^{+0.09} _{-0.09}	2.31E+37	1.01E+35
1210	58726.946398137	563.1 ^{+1.2} _{-1.2}	3.1 ^{+0.7} _{-0.7}	136 ⁺¹⁸ ₋₁₈	1119	8.63 ^{+0.09} _{-0.09}	26.48 ^{+0.06} _{-0.06}	2.99E+37	7.09E+34
1211	58726.946818729	563.7 ^{+1.1} _{-1.1}	8.4 ^{+3.1} _{-3.1}	68 ⁺⁴⁴ ₋₄₄	1117	5.28 ^{+0.05} _{-0.05}	44.46 ^{+0.16} _{-0.16}	5.02E+37	1.79E+35
1212	58726.947153093	563.2 ^{+1.3} _{-1.3}	6.3 ^{+1.6} _{-1.6}	82 ⁺¹⁹ ₋₁₉	1361	6.60 ^{+0.06} _{-0.06}	41.50 ^{+0.10} _{-0.10}	4.69E+37	1.18E+35
1213	58726.947292811	563.5 ^{+1.2} _{-1.2}	4.1 ^{+1.1} _{-1.1}	65 ⁺³⁶ ₋₃₆	1385	7.86 ^{+0.08} _{-0.08}	32.34 ^{+0.08} _{-0.08}	3.65E+37	9.54E+34
1214	58726.947569729	563.4 ^{+1.0} _{-1.0}	4.0 ^{+1.3} _{-1.3}	56 ⁺²² ₋₂₂	1422	6.36 ^{+0.06} _{-0.06}	25.68 ^{+0.08} _{-0.08}	2.90E+37	9.28E+34
1215	58726.947824771	563.6 ^{+1.1} _{-1.1}	1.5 ^{+0.2} _{-0.2}	74 ⁺³³ ₋₃₃	1350	11.61 ^{+0.11} _{-0.11}	17.36 ^{+0.02} _{-0.02}	1.96E+37	2.78E+34
1216	58726.948392069	562.6 ^{+1.2} _{-1.2}	5.0 ^{+1.2} _{-1.2}	60 ⁺¹⁴ ₋₁₄	1153	6.61 ^{+0.06} _{-0.06}	32.98 ^{+0.08} _{-0.08}	3.73E+37	8.97E+34
1217	58726.949519135	562.9 ^{+1.3} _{-1.3}	3.7 ^{+0.7} _{-0.7}	79 ⁺³⁰ ₋₃₀	1169	10.10 ^{+0.10} _{-0.10}	37.16 ^{+0.07} _{-0.07}	4.20E+37	7.53E+34
1218	58726.950474801	563.1 ^{+1.1} _{-1.1}	4.6 ^{+0.6} _{-0.6}	178 ⁺⁶³ ₋₆₃	1353	46.32 ^{+4.93} _{-4.93}	214.92 ^{+2.86} _{-2.86}	2.30E+38	3.06E+36
1219	58726.950940631	563.7 ^{+1.3} _{-1.3}	5.0 ^{+0.8} _{-0.8}	54 ⁺³³ ₋₃₃	1354	9.45 ^{+0.09} _{-0.09}	47.46 ^{+0.07} _{-0.07}	5.36E+37	8.35E+34
1220	58726.951398220	563.2 ^{+1.2} _{-1.2}	6.2 ^{+1.3} _{-1.3}	82 ⁺⁸⁷ ₋₈₇	1397	6.84 ^{+0.06} _{-0.06}	42.20 ^{+0.08} _{-0.08}	4.77E+37	9.06E+34
1221	58726.951576157	564.6 ^{+1.0} _{-1.0}	2.4 ^{+0.4} _{-0.4}	64 ⁺²³ ₋₂₃	1124	10.45 ^{+0.10} _{-0.10}	24.96 ^{+0.04} _{-0.04}	2.82E+37	4.93E+34
1222	58726.952866453	564.0 ^{+0.4} _{-0.4}	1.5 ^{+0.2} _{-0.2}	83 ⁺⁴⁶ ₋₄₆	1435	14.30 ^{+0.13} _{-0.13}	21.39 ^{+0.02} _{-0.02}	2.42E+37	2.68E+34
1223	58726.953212506	563.8 ^{+0.6} _{-0.6}	2.0 ^{+0.4} _{-0.4}	100 ⁺⁴² ₋₄₂	1230	12.32 ^{+0.12} _{-0.12}	25.04 ^{+0.05} _{-0.05}	2.83E+37	5.29E+34
1224	58726.953338519	563.5 ^{+1.2} _{-1.2}	5.1 ^{+1.0} _{-1.0}	73 ⁺³⁸ ₋₃₈	1157	9.24 ^{+0.09} _{-0.09}	47.22 ^{+0.08} _{-0.08}	5.34E+37	9.45E+34
1225	58726.954281627	562.9 ^{+1.3} _{-1.3}	5.5 ^{+1.3} _{-1.3}	82 ⁺⁷ ₋₇	1272	4.93 ^{+0.04} _{-0.04}	27.12 ^{+0.06} _{-0.06}	3.06E+37	6.70E+34
1226	58726.954604455	562.6 ^{+1.3} _{-1.3}	2.0 ^{+0.8} _{-0.8}	167 ⁺⁵ ₋₅	1331	6.85 ^{+0.06} _{-0.06}	13.63 ^{+0.05} _{-0.05}	1.54E+37	5.55E+34
1227	58726.955070508	564.2 ^{+1.0} _{-1.0}	4.2 ^{+1.1} _{-1.1}	46 ⁺⁶ ₋₆	1124	7.85 ^{+0.07} _{-0.07}	33.02 ^{+0.08} _{-0.08}	3.73E+37	8.94E+34
1228	58726.955647081	562.9 ^{+1.2} _{-1.2}	1.8 ^{+0.2} _{-0.2}	150 ⁺²⁷ ₋₂₇	1266	80.45 ^{+7.69} _{-7.69}	146.42 ^{+1.54} _{-1.54}	1.57E+38	1.65E+36
1229	58726.955647097	562.9 ^{+1.2} _{-1.2}	2.5 ^{+0.4} _{-0.4}	189 ⁺²¹ ₋₂₁	1267	13.95 ^{+0.13} _{-0.13}	34.39 ^{+0.36} _{-0.36}	3.68E+37	3.81E+35
1230	58726.955647199	563.1 ^{+1.2} _{-1.2}	3.9 ^{+1.6} _{-1.6}	73 ⁺⁸ ₋₈	1145	4.59 ^{+0.04} _{-0.04}	17.86 ^{+0.07} _{-0.07}	2.02E+37	7.75E+34
1231	58726.955890155	563.5 ^{+1.3} _{-1.3}	3.0 ^{+0.8} _{-0.8}	60 ⁺⁶⁷ ₋₆₇	1119	6.94 ^{+0.06} _{-0.06}	20.76 ^{+0.05} _{-0.05}	2.35E+37	5.59E+34
1232	58726.956141641	564.0 ^{+1.0} _{-1.0}	3.8 ^{+1.0} _{-1.0}	110 ⁺²⁰ ₋₂₀	1195	7.39 ^{+0.07} _{-0.07}	28.39 ^{+0.07} _{-0.07}	3.21E+37	7.89E+34
1233	58726.956516281	562.6 ^{+1.1} _{-1.1}	4.5 ^{+2.5} _{-2.5}	43 ⁺⁴ ₋₄	1427	4.19 ^{+0.04} _{-0.04}	18.82 ^{+0.10} _{-0.10}	2.13E+37	1.09E+35
1234	58726.956754688	562.9 ^{+1.1} _{-1.1}	5.1 ^{+2.6} _{-2.6}	139 ⁺⁷ ₋₇	1112	4.41 ^{+0.04} _{-0.04}	22.66 ^{+0.10} _{-0.10}	2.56E+37	1.18E+35
1235	58726.956962475	563.1 ^{+1.3} _{-1.3}	1.8 ^{+0.5} _{-0.5}	51 ⁺²⁶ ₋₂₆	1400	8.39 ^{+0.07} _{-0.07}	14.83 ^{+0.04} _{-0.04}	1.68E+37	4.03E+34
1236	58726.956963348	563.5 ^{+1.3} _{-1.3}	5.4 ^{+2.3} _{-2.3}	47 ⁺¹⁴ ₋₁₄	1390	5.91 ^{+0.05} _{-0.05}	32.17 ^{+0.12} _{-0.12}	3.63E+37	1.36E+35
1237	58726.956970401	563.7 ^{+1.2} _{-1.2}	6.9 ^{+2.8} _{-2.8}	47 ⁺³⁶ ₋₃₆	1420	4.92 ^{+0.04} _{-0.04}	34.05 ^{+0.12} _{-0.12}	3.85E+37	1.39E+35
1238	58726.957032278	563.2 ^{+1.3} _{-1.3}	4.2 ^{+0.8} _{-0.8}	96 ⁺³⁷ ₋₃₇	1318	9.19 ^{+0.08} _{-0.08}	38.98 ^{+0.07} _{-0.07}	4.40E+37	7.77E+34
1239	58726.957954858	564.6 ^{+0.9} _{-0.9}	4.1 ^{+0.6} _{-0.6}	162 ⁺¹⁶ ₋₁₆	1405	19.51 ^{+0.17} _{-0.17}	79.14 ^{+0.80} _{-0.80}	8.47E+37	8.55E+35
1240	58726.957954871	564.6 ^{+0.9} _{-0.9}	4.0 ^{+0.3} _{-0.3}	192 ⁺²³ ₋₂₃	1397	79.38 ^{+4.98} _{-4.98}	315.93 ^{+1.44} _{-1.44}	3.38E+38	1.55E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1241	58726.958346338	562.8 ^{+1.1} _{-1.1}	6.3 ^{+2.0} _{-2.0}	298 ⁺⁴⁹ ₋₄₉	1282	7.23 ^{+0.06} _{-0.06}	45.45 ^{+0.13} _{-0.13}	5.14E+37	1.46E+35
1242	58726.958472897	563.3 ^{+1.2} _{-1.2}	4.3 ^{+1.2} _{-1.2}	53 ⁺¹⁵ ₋₁₅	1134	5.21 ^{+0.05} _{-0.05}	22.54 ^{+0.06} _{-0.06}	2.55E+37	6.45E+34
1243	58726.958545659	563.2 ^{+1.2} _{-1.2}	4.6 ^{+1.4} _{-1.4}	212 ⁺⁹ ₋₉	1315	6.42 ^{+0.06} _{-0.06}	29.28 ^{+0.08} _{-0.08}	3.31E+37	8.80E+34
1244	58726.958554012	562.5 ^{+1.2} _{-1.2}	10.3 ^{+2.1} _{-2.1}	107 ⁺²⁸ ₋₂₈	1427	10.18 ^{+0.09} _{-0.09}	105.10 ^{+0.19} _{-0.19}	1.19E+38	2.18E+35
1245	58726.958646243	563.3 ^{+0.3} _{-0.3}	2.6 ^{+0.5} _{-0.5}	46 ⁺¹⁷ ₋₁₇	1320	12.33 ^{+0.11} _{-0.11}	32.38 ^{+0.05} _{-0.05}	3.66E+37	5.83E+34
1246	58726.958715389	563.8 ^{+0.1} _{-0.1}	4.3 ^{+0.6} _{-0.6}	412 ⁺²¹ ₋₂₁	1223	89.55 ^{+0.79} _{-0.79}	385.56 ^{+3.87} _{-3.87}	4.13E+38	4.14E+36
1247	58726.958715400	563.8 ^{+0.1} _{-0.1}	3.8 ^{+0.1} _{-0.1}	421 ⁺²¹ ₋₂₁	1219	407.90 ^{+5.24} _{-5.24}	1533.70 ^{+0.31} _{-0.31}	1.64E+39	3.37E+35
1248	58726.958923741	565.4 ^{+0.4} _{-0.4}	1.7 ^{+0.4} _{-0.4}	65 ⁺⁴ ₋₄	1094	7.39 ^{+0.07} _{-0.07}	12.86 ^{+0.02} _{-0.02}	1.45E+37	2.69E+34
1249	58726.958924000	563.6 ^{+1.1} _{-1.1}	1.7 ^{+0.3} _{-0.3}	62 ⁺⁶⁶ ₋₆₆	1127	6.59 ^{+0.06} _{-0.06}	11.34 ^{+0.01} _{-0.01}	1.28E+37	1.65E+34
1250	58726.959076770	562.1 ^{+1.3} _{-1.3}	6.0 ^{+2.4} _{-2.4}	237 ⁺⁹ ₋₉	1237	4.92 ^{+0.04} _{-0.04}	29.35 ^{+0.10} _{-0.10}	3.32E+37	1.18E+35
1251	58726.959314586	561.6 ^{+0.7} _{-0.7}	2.0 ^{+0.6} _{-0.6}	73 ⁺¹² ₋₁₂	1055	6.07 ^{+0.05} _{-0.05}	12.12 ^{+0.03} _{-0.03}	1.37E+37	3.84E+34
1252	58726.960240617	563.3 ^{+1.3} _{-1.3}	6.9 ^{+1.0} _{-1.0}	154 ⁺¹⁴ ₋₁₄	1167	13.58 ^{+0.12} _{-0.12}	93.54 ^{+0.93} _{-0.93}	1.00E+38	9.95E+35
1253	58726.960240693	563.3 ^{+1.3} _{-1.3}	6.9 ^{+0.6} _{-0.6}	171 ⁺¹⁵ ₋₁₅	1162	53.11 ^{+3.90} _{-3.90}	364.33 ^{+2.34} _{-2.34}	3.90E+38	2.50E+36
1254	58726.960347683	563.9 ^{+0.6} _{-0.6}	3.7 ^{+0.9} _{-0.9}	169 ⁺⁷⁹ ₋₇₉	1175	8.48 ^{+0.07} _{-0.07}	31.08 ^{+0.06} _{-0.06}	3.51E+37	7.15E+34
1255	58726.960843119	564.4 ^{+0.6} _{-0.6}	3.3 ^{+0.9} _{-0.9}	101 ⁺⁵⁴ ₋₅₄	1144	6.24 ^{+0.05} _{-0.05}	20.39 ^{+0.05} _{-0.05}	2.30E+37	5.77E+34
1256	58726.961194268	563.6 ^{+0.6} _{-0.6}	7.8 ^{+3.5} _{-3.5}	82 ⁺³⁵ ₋₃₅	1331	3.55 ^{+0.03} _{-0.03}	27.75 ^{+0.11} _{-0.11}	3.14E+37	1.21E+35
1257	58726.961253854	564.6 ^{+0.6} _{-0.6}	3.1 ^{+0.5} _{-0.5}	308 ⁺⁴ ₋₄	1229	10.51 ^{+0.09} _{-0.09}	32.86 ^{+0.04} _{-0.04}	3.71E+37	5.03E+34
1258	58726.961448462	562.5 ^{+1.2} _{-1.2}	5.1 ^{+1.6} _{-1.6}	89 ⁺⁶ ₋₆	1180	7.11 ^{+0.06} _{-0.06}	36.28 ^{+0.10} _{-0.10}	4.10E+37	1.14E+35
1259	58726.961541096	562.6 ^{+0.4} _{-0.4}	6.0 ^{+0.6} _{-0.6}	310 ⁺²⁵ ₋₂₅	1185	44.68 ^{+4.06} _{-4.06}	265.85 ^{+2.60} _{-2.60}	2.85E+38	2.78E+36
1260	58726.961541110	562.6 ^{+0.4} _{-0.4}	3.5 ^{+0.5} _{-0.5}	292 ⁺³⁸ ₋₃₈	1191	12.41 ^{+0.11} _{-0.11}	43.55 ^{+0.43} _{-0.43}	4.66E+37	4.60E+35
1261	58726.962932505	564.5 ^{+0.3} _{-0.3}	1.8 ^{+0.2} _{-0.2}	50 ⁺¹⁶ ₋₁₆	1367	16.08 ^{+0.14} _{-0.14}	29.38 ^{+0.03} _{-0.03}	3.32E+37	3.08E+34
1262	58726.963039318	562.9 ^{+1.1} _{-1.1}	3.9 ^{+0.6} _{-0.6}	110 ⁺⁵⁶ ₋₅₆	1243	13.06 ^{+0.11} _{-0.11}	50.74 ^{+0.07} _{-0.07}	5.73E+37	7.84E+34
1263	58726.963562854	562.0 ^{+1.2} _{-1.2}	2.5 ^{+0.9} _{-0.9}	75 ⁺⁵ ₋₅	1369	5.11 ^{+0.04} _{-0.04}	12.54 ^{+0.04} _{-0.04}	1.42E+37	4.47E+34
1264	58726.963899215	562.7 ^{+1.1} _{-1.1}	7.4 ^{+1.7} _{-1.7}	154 ⁺⁴⁵ ₋₄₅	1247	8.23 ^{+0.07} _{-0.07}	60.74 ^{+0.12} _{-0.12}	6.86E+37	1.33E+35
1265	58726.964016812	563.0 ^{+1.2} _{-1.2}	3.5 ^{+0.8} _{-0.8}	47 ⁺⁴⁴ ₋₄₄	1375	9.06 ^{+0.08} _{-0.08}	31.26 ^{+0.06} _{-0.06}	3.53E+37	6.53E+34
1266	58726.964341917	562.0 ^{+0.7} _{-0.7}	2.9 ^{+0.6} _{-0.6}	65 ⁺²⁸ ₋₂₈	1399	8.30 ^{+0.07} _{-0.07}	23.78 ^{+0.04} _{-0.04}	2.69E+37	4.65E+34
1267	58726.964947099	565.4 ^{+0.3} _{-0.3}	3.5 ^{+0.4} _{-0.4}	133 ⁺¹³ ₋₁₃	1361	19.86 ^{+0.17} _{-0.17}	69.89 ^{+0.06} _{-0.06}	7.90E+37	7.13E+34
1268	58726.965660026	564.3 ^{+1.0} _{-1.0}	7.1 ^{+2.4} _{-2.4}	78 ⁺²⁵ ₋₂₅	1374	5.89 ^{+0.05} _{-0.05}	41.98 ^{+0.12} _{-0.12}	4.74E+37	1.36E+35
1269	58726.965663286	563.6 ^{+1.2} _{-1.2}	2.6 ^{+0.7} _{-0.7}	83 ⁺⁴² ₋₄₂	1109	7.17 ^{+0.06} _{-0.06}	18.77 ^{+0.04} _{-0.04}	2.12E+37	4.73E+34
1270	58726.966579254	563.8 ^{+1.2} _{-1.2}	3.0 ^{+0.4} _{-0.4}	73 ⁺²³ ₋₂₃	1392	51.10 ^{+5.92} _{-5.92}	153.81 ^{+2.37} _{-2.37}	1.65E+38	2.53E+36
1271	58726.967225956	563.0 ^{+1.3} _{-1.3}	7.5 ^{+1.6} _{-1.6}	63 ⁺²⁶ ₋₂₆	1412	6.70 ^{+0.06} _{-0.06}	50.10 ^{+0.09} _{-0.09}	5.66E+37	9.84E+34
1272	58726.967226195	563.0 ^{+0.9} _{-0.9}	4.0 ^{+0.6} _{-0.6}	120 ⁺⁴⁰ ₋₄₀	1406	9.19 ^{+0.08} _{-0.08}	37.03 ^{+0.05} _{-0.05}	4.18E+37	5.49E+34
1273	58726.967551253	563.1 ^{+1.1} _{-1.1}	3.9 ^{+1.4} _{-1.4}	103 ⁺¹⁵ ₋₁₅	1360	5.71 ^{+0.05} _{-0.05}	22.28 ^{+0.07} _{-0.07}	2.52E+37	7.39E+34
1274	58726.968066130	563.0 ^{+1.3} _{-1.3}	7.7 ^{+2.6} _{-2.6}	162 ⁺²⁷ ₋₂₇	1275	5.93 ^{+0.05} _{-0.05}	45.55 ^{+0.12} _{-0.12}	5.15E+37	1.40E+35
1275	58726.968134268	563.8 ^{+1.0} _{-1.0}	3.1 ^{+0.6} _{-0.6}	94 ⁺³ ₋₃	1301	8.71 ^{+0.07} _{-0.07}	27.33 ^{+0.05} _{-0.05}	3.09E+37	5.15E+34
1276	58726.968285700	562.9 ^{+0.8} _{-0.8}	2.6 ^{+0.4} _{-0.4}	180 ⁺¹⁷ ₋₁₇	1394	17.15 ^{+0.14} _{-0.14}	44.60 ^{+0.41} _{-0.41}	4.77E+37	4.43E+35
1277	58726.968333565	563.8 ^{+0.9} _{-0.9}	6.6 ^{+2.3} _{-2.3}	88 ⁺²³ ₋₂₃	1166	5.46 ^{+0.04} _{-0.04}	35.77 ^{+0.10} _{-0.10}	4.04E+37	1.14E+35
1278	58726.968987748	563.4 ^{+1.2} _{-1.2}	6.1 ^{+2.4} _{-2.4}	75 ⁺⁵⁰ ₋₅₀	1402	6.07 ^{+0.05} _{-0.05}	36.96 ^{+0.12} _{-0.12}	4.18E+37	1.34E+35
1279	58726.969020433	563.2 ^{+0.9} _{-0.9}	2.8 ^{+0.3} _{-0.3}	110 ⁺³⁰ ₋₃₀	1163	14.59 ^{+0.12} _{-0.12}	40.19 ^{+0.04} _{-0.04}	4.54E+37	4.63E+34
1280	58726.969108632	563.6 ^{+0.8} _{-0.8}	5.2 ^{+0.4} _{-0.4}	120 ⁺¹⁸ ₋₁₈	1215	70.34 ^{+4.48} _{-4.48}	367.88 ^{+1.75} _{-1.75}	3.94E+38	1.87E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1281	58726.969530031	563.0 ^{+1.2} _{-1.2}	5.8 ^{+1.1} _{-1.1}	84 ⁺³¹ ₋₃₁	1382	8.74 ^{+0.07} _{-0.07}	50.79 ^{+0.08} _{-0.08}	5.74E+37	8.94E+34
1282	58726.970096969	563.2 ^{+1.3} _{-1.3}	4.5 ^{+1.3} _{-1.3}	58 ⁺²² ₋₂₂	1388	6.77 ^{+0.05} _{-0.05}	30.43 ^{+0.07} _{-0.07}	3.44E+37	8.15E+34
1283	58726.970546219	561.4 ^{+0.6} _{-0.6}	7.7 ^{+1.1} _{-1.1}	195 ⁺¹⁹ ₋₁₉	1283	20.10 ^{+0.16} _{-0.16}	154.44 ^{+1.42} _{-1.42}	1.65E+38	1.52E+36
1284	58726.970546260	561.4 ^{+0.6} _{-0.6}	8.1 ^{+0.8} _{-0.8}	82 ⁺²⁷ ₋₂₇	1086	44.51 ^{+3.63} _{-3.63}	361.87 ^{+2.83} _{-2.83}	3.87E+38	3.03E+36
1285	58726.970689394	563.3 ^{+1.2} _{-1.2}	4.2 ^{+1.1} _{-1.1}	182 ⁺⁶ ₋₆	1246	7.17 ^{+0.06} _{-0.06}	30.24 ^{+0.07} _{-0.07}	3.42E+37	7.39E+34
1286	58726.971847508	564.5 ^{+0.8} _{-0.8}	2.8 ^{+0.4} _{-0.4}	108 ⁺³² ₋₃₂	1265	15.22 ^{+0.12} _{-0.12}	42.39 ^{+0.38} _{-0.38}	4.54E+37	4.09E+35
1287	58726.971854542	563.4 ^{+1.1} _{-1.1}	4.2 ^{+0.8} _{-0.8}	331 ⁺⁵ ₋₅	1269	7.64 ^{+0.06} _{-0.06}	32.21 ^{+0.05} _{-0.05}	3.64E+37	5.48E+34
1288	58726.972095418	562.8 ^{+0.4} _{-0.4}	4.0 ^{+0.8} _{-0.8}	87 ⁺⁷⁸ ₋₇₈	1405	10.02 ^{+0.08} _{-0.08}	40.38 ^{+0.06} _{-0.06}	4.56E+37	6.70E+34
1289	58726.972287433	563.0 ^{+1.2} _{-1.2}	4.1 ^{+1.7} _{-1.7}	61 ⁺²² ₋₂₂	1367	5.68 ^{+0.04} _{-0.04}	23.19 ^{+0.08} _{-0.08}	2.62E+37	8.79E+34
1290	58726.972435573	563.1 ^{+1.1} _{-1.1}	2.8 ^{+0.7} _{-0.7}	301 ⁺¹⁹ ₋₁₉	1286	9.32 ^{+0.07} _{-0.07}	26.15 ^{+0.05} _{-0.05}	2.96E+37	5.74E+34
1291	58726.972530172	563.1 ^{+1.3} _{-1.3}	8.2 ^{+3.6} _{-3.6}	124 ⁺³¹ ₋₃₁	1380	4.09 ^{+0.03} _{-0.03}	33.58 ^{+0.12} _{-0.12}	3.79E+37	1.30E+35
1292	58726.972620297	563.2 ^{+1.2} _{-1.2}	4.1 ^{+1.0} _{-1.0}	102 ⁺⁵ ₋₅	1358	6.52 ^{+0.05} _{-0.05}	26.67 ^{+0.05} _{-0.05}	3.01E+37	5.66E+34
1293	58726.972799729	563.4 ^{+1.3} _{-1.3}	2.1 ^{+0.3} _{-0.3}	48 ⁺⁶ ₋₆	1444	19.64 ^{+0.15} _{-0.15}	41.72 ^{+0.38} _{-0.38}	4.47E+37	4.03E+35
1294	58726.972799741	563.4 ^{+1.3} _{-1.3}	3.2 ^{+0.5} _{-0.5}	85 ⁺¹² ₋₁₂	1442	44.90 ^{+5.49} _{-5.49}	145.92 ^{+2.53} _{-2.53}	1.56E+38	2.70E+36
1295	58726.973653052	562.4 ^{+1.1} _{-1.1}	3.6 ^{+1.1} _{-1.1}	65 ⁺⁹ ₋₉	1095	6.90 ^{+0.05} _{-0.05}	24.86 ^{+0.06} _{-0.06}	2.81E+37	6.43E+34
1296	58726.973805588	563.0 ^{+1.3} _{-1.3}	5.6 ^{+3.6} _{-3.6}	71 ⁺³ ₋₃	1341	3.05 ^{+0.02} _{-0.02}	17.15 ^{+0.09} _{-0.09}	1.94E+37	9.64E+34
1297	58726.974351697	564.3 ^{+0.9} _{-0.9}	3.5 ^{+1.1} _{-1.1}	84 ⁺²² ₋₂₂	1116	5.46 ^{+0.04} _{-0.04}	19.11 ^{+0.05} _{-0.05}	2.16E+37	5.46E+34
1298	58726.974447879	562.9 ^{+1.3} _{-1.3}	7.7 ^{+2.9} _{-2.9}	114 ⁺²⁸ ₋₂₈	1166	5.85 ^{+0.05} _{-0.05}	44.99 ^{+0.13} _{-0.13}	5.08E+37	1.51E+35
1299	58726.974776486	562.6 ^{+1.1} _{-1.1}	11.7 ^{+2.1} _{-2.1}	101 ⁺⁸³ ₋₈₃	1241	7.54 ^{+0.06} _{-0.06}	88.24 ^{+0.12} _{-0.12}	9.97E+37	1.40E+35
1300	58726.974795710	563.4 ^{+1.1} _{-1.1}	3.1 ^{+0.9} _{-0.9}	156 ⁺⁵ ₋₅	1308	6.38 ^{+0.05} _{-0.05}	19.58 ^{+0.05} _{-0.05}	2.21E+37	5.24E+34
1301	58726.975036752	563.2 ^{+0.6} _{-0.6}	2.2 ^{+0.3} _{-0.3}	104 ⁺⁵ ₋₅	1384	11.08 ^{+0.09} _{-0.09}	24.31 ^{+0.02} _{-0.02}	2.75E+37	2.71E+34
1302	58726.975247411	563.2 ^{+1.2} _{-1.2}	3.8 ^{+1.2} _{-1.2}	233 ⁺² ₋₂	1263	5.21 ^{+0.04} _{-0.04}	19.56 ^{+0.05} _{-0.05}	2.21E+37	5.57E+34
1303	58726.975653391	563.5 ^{+1.2} _{-1.2}	2.2 ^{+0.3} _{-0.3}	47 ⁺³⁵ ₋₃₅	1380	11.24 ^{+0.09} _{-0.09}	24.85 ^{+0.03} _{-0.03}	2.81E+37	3.24E+34
1304	58726.975746081	564.4 ^{+0.5} _{-0.5}	4.0 ^{+0.7} _{-0.7}	245 ⁺⁵ ₋₅	1264	9.66 ^{+0.07} _{-0.07}	38.44 ^{+0.05} _{-0.05}	4.34E+37	6.13E+34
1305	58726.976093340	563.2 ^{+1.2} _{-1.2}	3.4 ^{+1.3} _{-1.3}	52 ⁺²⁹ ₋₂₉	1385	5.59 ^{+0.04} _{-0.04}	18.91 ^{+0.06} _{-0.06}	2.14E+37	6.54E+34
1306	58726.976364760	563.8 ^{+1.1} _{-1.1}	1.6 ^{+0.3} _{-0.3}	200 ⁺²³ ₋₂₃	1324	10.74 ^{+0.08} _{-0.08}	17.07 ^{+0.02} _{-0.02}	1.93E+37	2.54E+34
1307	58726.977182162	562.7 ^{+1.3} _{-1.3}	2.5 ^{+0.9} _{-0.9}	113 ⁺⁴ ₋₄	1131	5.45 ^{+0.04} _{-0.04}	13.85 ^{+0.04} _{-0.04}	1.57E+37	4.06E+34
1308	58726.977513942	563.8 ^{+0.5} _{-0.5}	1.9 ^{+0.7} _{-0.7}	79 ⁺³⁰ ₋₃₀	1183	7.63 ^{+0.06} _{-0.06}	14.85 ^{+0.04} _{-0.04}	1.68E+37	4.53E+34
1309	58726.977633736	563.2 ^{+1.2} _{-1.2}	6.1 ^{+0.7} _{-0.7}	138 ⁺¹¹ ₋₁₁	1234	17.17 ^{+0.13} _{-0.13}	104.37 ^{+0.09} _{-0.09}	1.18E+38	1.06E+35
1310	58726.977652833	564.2 ^{+0.8} _{-0.8}	4.0 ^{+0.8} _{-0.8}	191 ⁺⁷³ ₋₇₃	1321	7.79 ^{+0.06} _{-0.06}	30.87 ^{+0.04} _{-0.04}	3.49E+37	5.03E+34
1311	58726.977865494	564.5 ^{+0.8} _{-0.8}	4.5 ^{+0.5} _{-0.5}	148 ⁺¹⁵ ₋₁₅	1225	17.83 ^{+0.14} _{-0.14}	79.73 ^{+0.07} _{-0.07}	9.01E+37	7.55E+34
1312	58726.978024001	564.6 ^{+0.9} _{-0.9}	3.0 ^{+0.9} _{-0.9}	79 ⁺⁹² ₋₉₂	1365	6.53 ^{+0.05} _{-0.05}	19.54 ^{+0.05} _{-0.05}	2.21E+37	5.11E+34
1313	58726.978024225	563.6 ^{+0.3} _{-0.3}	2.5 ^{+1.0} _{-1.0}	268 ⁺²⁹ ₋₂₉	1251	3.89 ^{+0.03} _{-0.03}	9.85 ^{+0.03} _{-0.03}	1.11E+37	3.37E+34
1314	58726.979646113	562.4 ^{+1.1} _{-1.1}	4.1 ^{+1.9} _{-1.9}	48 ⁺³⁷ ₋₃₇	1214	5.89 ^{+0.04} _{-0.04}	24.43 ^{+0.08} _{-0.08}	2.76E+37	9.37E+34
1315	58726.980117945	563.3 ^{+1.3} _{-1.3}	4.3 ^{+2.4} _{-2.4}	179 ⁺⁶⁷ ₋₆₇	1241	3.57 ^{+0.03} _{-0.03}	15.43 ^{+0.07} _{-0.07}	1.74E+37	7.44E+34
1316	58726.980276062	563.8 ^{+1.2} _{-1.2}	3.8 ^{+0.7} _{-0.7}	57 ⁺¹¹ ₋₁₁	1178	9.84 ^{+0.07} _{-0.07}	37.71 ^{+0.05} _{-0.05}	4.26E+37	5.89E+34
1317	58726.981301009	562.5 ^{+1.1} _{-1.1}	7.3 ^{+3.1} _{-3.1}	120 ⁺⁶⁴ ₋₆₄	1363	6.00 ^{+0.04} _{-0.04}	43.93 ^{+0.14} _{-0.14}	4.96E+37	1.56E+35
1318	58726.981371676	562.9 ^{+1.2} _{-1.2}	1.5 ^{+0.3} _{-0.3}	102 ⁺³⁵ ₋₃₅	1389	12.55 ^{+0.09} _{-0.09}	19.21 ^{+0.02} _{-0.02}	2.17E+37	2.77E+34
1319	58726.981711975	562.9 ^{+1.2} _{-1.2}	2.9 ^{+0.8} _{-0.8}	282 ⁺⁸⁵ ₋₈₅	1198	7.71 ^{+0.06} _{-0.06}	22.55 ^{+0.04} _{-0.04}	2.55E+37	5.05E+34
1320	58726.982574644	564.0 ^{+1.1} _{-1.1}	3.1 ^{+1.6} _{-1.6}	50 ⁺⁵ ₋₅	1070	4.44 ^{+0.03} _{-0.03}	13.72 ^{+0.05} _{-0.05}	1.55E+37	5.88E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1321	58726.982574879	563.3 ^{+1.2} _{-1.2}	7.7 ^{+6.3} _{-6.3}	221 ⁺⁹⁵ ₋₉₅	1178	2.75 ^{+0.02} _{-0.02}	21.12 ^{+0.13} _{-0.13}	2.39E+37	1.50E+35
1322	58726.983058004	563.2 ^{+1.0} _{-1.0}	3.2 ^{+1.1} _{-1.1}	213 ⁺¹⁰⁷ ₋₁₀₇	1305	8.77 ^{+0.07} _{-0.07}	27.67 ^{+0.07} _{-0.07}	3.13E+37	8.17E+34
1323	58726.983255055	563.2 ^{+1.3} _{-1.3}	6.5 ^{+1.8} _{-1.8}	154 ⁺⁶ ₋₆	1223	8.26 ^{+0.06} _{-0.06}	54.06 ^{+0.11} _{-0.11}	6.11E+37	1.27E+35
1324	58726.983604886	563.0 ^{+1.0} _{-1.0}	9.4 ^{+2.5} _{-2.5}	121 ⁺¹⁶ ₋₁₆	1183	8.79 ^{+0.07} _{-0.07}	82.64 ^{+0.16} _{-0.16}	9.34E+37	1.84E+35
1325	58726.983605125	562.8 ^{+1.1} _{-1.1}	1.9 ^{+0.8} _{-0.8}	135 ⁺⁴⁵ ₋₄₅	1143	4.50 ^{+0.03} _{-0.03}	8.42 ^{+0.03} _{-0.03}	9.52E+36	2.93E+34
1326	58726.983942516	564.6 ^{+0.5} _{-0.5}	2.3 ^{+0.2} _{-0.2}	276 ⁺³⁷ ₋₃₇	1315	99.07 ^{+6.20} _{-6.20}	231.82 ^{+1.05} _{-1.05}	2.48E+38	1.13E+36
1327	58726.983942518	564.6 ^{+0.5} _{-0.5}	2.8 ^{+0.4} _{-0.4}	282 ⁺²⁸ ₋₂₈	1301	21.76 ^{+0.16} _{-0.16}	61.12 ^{+0.51} _{-0.51}	6.54E+37	5.50E+35
1328	58726.984022572	562.8 ^{+1.3} _{-1.3}	3.0 ^{+1.3} _{-1.3}	129 ⁺⁴⁵ ₋₄₅	1270	4.67 ^{+0.04} _{-0.04}	14.21 ^{+0.05} _{-0.05}	1.61E+37	5.18E+34
1329	58726.984755347	564.3 ^{+1.0} _{-1.0}	5.2 ^{+0.7} _{-0.7}	104 ⁺²⁵ ₋₂₅	1314	11.38 ^{+0.08} _{-0.08}	59.02 ^{+0.06} _{-0.06}	6.67E+37	6.98E+34
1330	58726.986565724	564.3 ^{+1.0} _{-1.0}	8.2 ^{+2.9} _{-2.9}	248 ⁺⁷⁷ ₋₇₇	1290	5.32 ^{+0.04} _{-0.04}	43.55 ^{+0.11} _{-0.11}	4.92E+37	1.29E+35
1331	58726.987346271	563.5 ^{+1.0} _{-1.0}	5.7 ^{+1.3} _{-1.3}	49 ⁺⁴ ₋₄	1354	8.65 ^{+0.06} _{-0.06}	49.72 ^{+0.09} _{-0.09}	5.62E+37	9.75E+34
1332	58726.987770409	563.1 ^{+1.2} _{-1.2}	1.9 ^{+0.3} _{-0.3}	78 ⁺⁴⁸ ₋₄₈	1399	11.86 ^{+0.09} _{-0.09}	22.17 ^{+0.03} _{-0.03}	2.51E+37	3.04E+34
1333	58726.988690561	564.2 ^{+0.4} _{-0.4}	3.2 ^{+0.2} _{-0.2}	271 ⁺²⁸ ₋₂₈	1308	104.95 ^{+5.56} _{-5.56}	330.59 ^{+1.11} _{-1.11}	3.54E+38	1.19E+36
1334	58726.988690571	564.2 ^{+0.4} _{-0.4}	3.8 ^{+0.5} _{-0.5}	288 ⁺²³ ₋₂₃	1301	17.79 ^{+0.13} _{-0.13}	67.57 ^{+0.56} _{-0.56}	7.23E+37	6.05E+35
1335	58726.989191557	562.3 ^{+1.1} _{-1.1}	2.7 ^{+0.8} _{-0.8}	67 ⁺²⁷ ₋₂₇	1408	6.71 ^{+0.05} _{-0.05}	17.85 ^{+0.04} _{-0.04}	2.02E+37	4.70E+34
1336	58726.990157398	562.6 ^{+1.2} _{-1.2}	5.6 ^{+1.9} _{-1.9}	311 ⁺⁹⁴ ₋₉₄	1252	7.25 ^{+0.05} _{-0.05}	40.89 ^{+0.10} _{-0.10}	4.62E+37	1.14E+35
1337	58726.990249449	563.6 ^{+1.2} _{-1.2}	4.9 ^{+5.2} _{-5.2}	57 ⁺¹⁰ ₋₁₀	1438	2.34 ^{+0.02} _{-0.02}	11.54 ^{+0.09} _{-0.09}	1.30E+37	9.93E+34
1338	58726.990250338	563.2 ^{+1.3} _{-1.3}	8.3 ^{+1.0} _{-1.0}	150 ⁺¹³ ₋₁₃	1330	34.02 ^{+3.46} _{-3.46}	281.69 ^{+3.46} _{-3.46}	3.02E+38	3.70E+36
1339	58726.990731945	563.1 ^{+1.3} _{-1.3}	1.5 ^{+0.7} _{-0.7}	57 ⁺¹¹ ₋₁₁	1416	7.06 ^{+0.05} _{-0.05}	10.50 ^{+0.04} _{-0.04}	1.19E+37	4.03E+34
1340	58726.991655108	563.5 ^{+1.1} _{-1.1}	1.6 ^{+0.4} _{-0.4}	131 ⁺⁵ ₋₅	1322	8.07 ^{+0.06} _{-0.06}	12.76 ^{+0.02} _{-0.02}	1.44E+37	2.71E+34
1341	58726.992417681	562.4 ^{+1.2} _{-1.2}	2.3 ^{+0.7} _{-0.7}	55 ⁺²⁴ ₋₂₄	1065	9.10 ^{+0.07} _{-0.07}	21.34 ^{+0.05} _{-0.05}	2.41E+37	5.13E+34
1342	58726.992418026	563.4 ^{+1.2} _{-1.2}	5.3 ^{+2.6} _{-2.6}	67 ⁺¹² ₋₁₂	1120	5.89 ^{+0.04} _{-0.04}	31.19 ^{+0.11} _{-0.11}	3.52E+37	1.26E+35
1343	58726.992683140	562.9 ^{+1.1} _{-1.1}	1.9 ^{+0.9} _{-0.9}	61 ⁺³³ ₋₃₃	1075	5.96 ^{+0.04} _{-0.04}	11.27 ^{+0.04} _{-0.04}	1.27E+37	4.32E+34
1344	58726.993786584	563.2 ^{+1.4} _{-1.4}	11.7 ^{+4.5} _{-4.5}	42 ⁺¹⁵ ₋₁₅	1390	5.42 ^{+0.04} _{-0.04}	63.34 ^{+0.18} _{-0.18}	7.16E+37	1.99E+35
1345	58726.994285196	562.7 ^{+1.0} _{-1.0}	3.6 ^{+1.1} _{-1.1}	46 ⁺¹⁸ ₋₁₈	1400	10.81 ^{+0.08} _{-0.08}	39.31 ^{+0.08} _{-0.08}	4.44E+37	9.43E+34
1346	58726.994685695	562.7 ^{+1.3} _{-1.3}	6.2 ^{+1.9} _{-1.9}	104 ⁺²⁰ ₋₂₀	1314	10.36 ^{+0.08} _{-0.08}	64.44 ^{+0.14} _{-0.14}	7.28E+37	1.62E+35
1347	58726.994695640	562.7 ^{+1.2} _{-1.2}	2.6 ^{+0.7} _{-0.7}	71 ⁺²² ₋₂₂	1369	10.65 ^{+0.08} _{-0.08}	27.80 ^{+0.06} _{-0.06}	3.14E+37	6.30E+34
1348	58726.995221129	563.6 ^{+1.1} _{-1.1}	3.4 ^{+1.2} _{-1.2}	62 ⁺²⁶ ₋₂₆	1348	6.95 ^{+0.05} _{-0.05}	23.40 ^{+0.06} _{-0.06}	2.64E+37	6.95E+34
1349	58726.995920581	563.1 ^{+0.8} _{-0.8}	6.8 ^{+0.8} _{-0.8}	180 ⁺²⁵ ₋₂₅	1377	38.88 ^{+3.73} _{-3.73}	263.22 ^{+2.83} _{-2.83}	2.82E+38	3.03E+36
1350	58726.995937423	563.4 ^{+1.4} _{-1.4}	3.1 ^{+1.3} _{-1.3}	88 ⁺⁴⁷ ₋₄₇	1189	5.49 ^{+0.04} _{-0.04}	17.21 ^{+0.05} _{-0.05}	1.95E+37	5.89E+34
1351	58726.996290903	564.1 ^{+0.9} _{-0.9}	6.6 ^{+1.9} _{-1.9}	96 ⁺¹⁵ ₋₁₅	1412	8.47 ^{+0.06} _{-0.06}	55.68 ^{+0.12} _{-0.12}	6.29E+37	1.36E+35
1352	58726.996291038	563.7 ^{+0.9} _{-0.9}	1.9 ^{+0.6} _{-0.6}	170 ⁺¹¹ ₋₁₁	1178	8.13 ^{+0.06} _{-0.06}	15.83 ^{+0.04} _{-0.04}	1.79E+37	4.21E+34
1353	58726.996358044	562.8 ^{+1.2} _{-1.2}	2.0 ^{+0.7} _{-0.7}	81 ⁺²⁷ ₋₂₇	1115	6.20 ^{+0.05} _{-0.05}	12.27 ^{+0.03} _{-0.03}	1.39E+37	3.74E+34
1354	58726.996358544	562.7 ^{+1.2} _{-1.2}	3.3 ^{+0.9} _{-0.9}	92 ⁺⁷ ₋₇	1186	8.35 ^{+0.06} _{-0.06}	27.73 ^{+0.06} _{-0.06}	3.13E+37	6.33E+34
1355	58726.996711231	563.1 ^{+1.1} _{-1.1}	4.8 ^{+1.5} _{-1.5}	67 ⁺¹² ₋₁₂	1209	6.80 ^{+0.05} _{-0.05}	32.92 ^{+0.07} _{-0.07}	3.72E+37	8.26E+34
1356	58726.996898178	562.5 ^{+1.3} _{-1.3}	3.7 ^{+0.5} _{-0.5}	113 ⁺³ ₋₃	1195	4.14 ^{+0.03} _{-0.03}	15.47 ^{+0.13} _{-0.13}	1.66E+37	1.37E+35
1357	58726.996959092	563.7 ^{+1.1} _{-1.1}	6.0 ^{+1.4} _{-1.4}	161 ⁺²⁰ ₋₂₀	1394	12.46 ^{+0.09} _{-0.09}	75.07 ^{+0.13} _{-0.13}	8.48E+37	1.49E+35
1358	58726.997344860	563.0 ^{+1.2} _{-1.2}	5.7 ^{+1.3} _{-1.3}	78 ⁺³⁰ ₋₃₀	1301	8.55 ^{+0.06} _{-0.06}	48.62 ^{+0.08} _{-0.08}	5.49E+37	9.43E+34
1359	58726.997591917	564.5 ^{+0.5} _{-0.5}	3.3 ^{+0.6} _{-0.6}	191 ⁺²⁴ ₋₂₄	1155	15.24 ^{+0.11} _{-0.11}	49.63 ^{+0.06} _{-0.06}	5.61E+37	7.06E+34
1360	58726.997719203	564.0 ^{+1.0} _{-1.0}	2.3 ^{+0.5} _{-0.5}	243 ⁺⁴ ₋₄	1285	13.56 ^{+0.10} _{-0.10}	30.78 ^{+0.05} _{-0.05}	3.48E+37	5.93E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1361	58726.998009316	563.9 ^{+0.9} _{-0.9}	2.2 ^{+0.7} _{-0.7}	72 ⁺⁵⁵ ₋₅₅	1302	7.88 ^{+0.06} _{-0.06}	17.41 ^{+0.04} _{-0.04}	1.97E+37	4.48E+34
1362	58726.998981380	563.1 ^{+1.3} _{-1.3}	9.0 ^{+0.8} _{-0.8}	100 ⁺¹³ ₋₁₃	1439	44.45 ^{+3.25} _{-3.25}	398.72 ^{+2.57} _{-2.57}	4.27E+38	2.75E+36
1363	58726.998981404	563.1 ^{+1.3} _{-1.3}	5.3 ^{+0.8} _{-0.8}	142 ⁺¹⁹ ₋₁₉	1422	10.33 ^{+0.08} _{-0.08}	54.88 ^{+0.46} _{-0.46}	5.87E+37	4.94E+35
1364	58726.998981436	563.1 ^{+1.3} _{-1.3}	9.0 ^{+0.8} _{-0.8}	151 ⁺⁸ ₋₈	1389	38.90 ^{+3.20} _{-3.20}	352.05 ^{+2.59} _{-2.59}	3.77E+38	2.77E+36
1365	58726.999348482	565.0 ^{+0.4} _{-0.4}	3.1 ^{+0.5} _{-0.5}	91 ⁺⁴⁴ ₋₄₄	1389	13.59 ^{+0.10} _{-0.10}	42.49 ^{+0.36} _{-0.36}	4.55E+37	3.83E+35
1366	58726.999542033	563.6 ^{+1.3} _{-1.3}	1.7 ^{+0.4} _{-0.4}	106 ⁺⁴ ₋₄	1194	7.80 ^{+0.06} _{-0.06}	13.32 ^{+0.02} _{-0.02}	1.51E+37	2.28E+34
1367	58726.999544528	563.0 ^{+1.2} _{-1.2}	4.4 ^{+1.4} _{-1.4}	230 ⁺⁶ ₋₆	1237	5.28 ^{+0.04} _{-0.04}	23.21 ^{+0.05} _{-0.05}	2.62E+37	6.07E+34
1368	58727.000407351	565.4 ^{+0.9} _{-0.9}	3.9 ^{+0.6} _{-0.6}	90 ⁺¹⁰ ₋₁₀	1386	13.57 ^{+0.10} _{-0.10}	52.70 ^{+0.07} _{-0.07}	5.96E+37	7.47E+34
1369	58727.000782739	563.2 ^{+1.2} _{-1.2}	3.3 ^{+0.8} _{-0.8}	282 ⁺⁴ ₋₄	1199	7.54 ^{+0.06} _{-0.06}	24.68 ^{+0.05} _{-0.05}	2.79E+37	5.27E+34
1370	58727.000952184	563.5 ^{+0.6} _{-0.6}	3.8 ^{+0.6} _{-0.6}	83 ⁺¹⁰ ₋₁₀	1078	8.93 ^{+0.07} _{-0.07}	34.35 ^{+0.29} _{-0.29}	3.68E+37	3.16E+35
1371	58727.001635398	563.9 ^{+0.4} _{-0.4}	2.0 ^{+0.3} _{-0.3}	190 ⁺⁸⁶ ₋₈₆	1148	12.07 ^{+0.09} _{-0.09}	24.33 ^{+0.03} _{-0.03}	2.75E+37	3.57E+34
1372	58727.001954838	563.4 ^{+0.5} _{-0.5}	3.4 ^{+0.5} _{-0.5}	211 ⁺¹⁹ ₋₁₉	1138	10.52 ^{+0.08} _{-0.08}	35.79 ^{+0.31} _{-0.31}	3.83E+37	3.29E+35
1373	58727.001971556	563.6 ^{+1.2} _{-1.2}	5.0 ^{+0.7} _{-0.7}	138 ⁺³⁷ ₋₃₇	1341	12.19 ^{+0.09} _{-0.09}	60.96 ^{+0.53} _{-0.53}	6.53E+37	5.63E+35
1374	58727.002183256	563.9 ^{+0.2} _{-0.2}	4.1 ^{+0.6} _{-0.6}	150 ⁺⁶⁶ ₋₆₆	1142	10.53 ^{+0.08} _{-0.08}	43.25 ^{+0.37} _{-0.37}	4.63E+37	3.97E+35
1375	58727.002304877	562.9 ^{+1.2} _{-1.2}	2.4 ^{+0.6} _{-0.6}	144 ⁺⁷ ₋₇	1149	9.61 ^{+0.07} _{-0.07}	23.21 ^{+0.04} _{-0.04}	2.62E+37	4.56E+34
1376	58727.002493462	561.7 ^{+0.4} _{-0.4}	4.1 ^{+1.1} _{-1.1}	100 ⁺¹⁶ ₋₁₆	1201	7.71 ^{+0.06} _{-0.06}	31.40 ^{+0.06} _{-0.06}	3.55E+37	7.27E+34
1377	58727.003358127	562.8 ^{+1.2} _{-1.2}	3.1 ^{+1.0} _{-1.0}	96 ⁺¹⁶ ₋₁₆	1194	6.63 ^{+0.05} _{-0.05}	20.58 ^{+0.05} _{-0.05}	2.33E+37	5.71E+34
1378	58727.004549910	564.6 ^{+0.9} _{-0.9}	1.7 ^{+0.9} _{-0.9}	222 ⁺⁸⁶ ₋₈₆	1265	4.40 ^{+0.03} _{-0.03}	7.29 ^{+0.03} _{-0.03}	8.24E+36	3.41E+34
1379	58727.004801338	564.4 ^{+1.1} _{-1.1}	4.0 ^{+0.6} _{-0.6}	155 ⁺¹⁸ ₋₁₈	1386	10.41 ^{+0.08} _{-0.08}	41.49 ^{+0.36} _{-0.36}	4.44E+37	3.91E+35
1380	58727.004922447	564.0 ^{+0.7} _{-0.7}	4.3 ^{+0.6} _{-0.6}	111 ⁺⁹ ₋₉	1072	9.89 ^{+0.08} _{-0.08}	42.51 ^{+0.37} _{-0.37}	4.55E+37	4.00E+35
1381	58727.004986581	564.0 ^{+0.1} _{-0.1}	4.6 ^{+0.2} _{-0.2}	129 ⁺³⁰ ₋₃₀	1421	108.43 ^{+4.80} _{-4.80}	503.12 ^{+1.15} _{-1.15}	5.39E+38	1.23E+36
1382	58727.004986615	564.0 ^{+0.1} _{-0.1}	7.0 ^{+1.0} _{-1.0}	477 ⁺¹³ ₋₁₃	1245	20.22 ^{+0.15} _{-0.15}	142.18 ^{+1.24} _{-1.24}	1.52E+38	1.33E+36
1383	58727.005661082	563.7 ^{+1.2} _{-1.2}	2.3 ^{+1.0} _{-1.0}	104 ⁺⁴⁷ ₋₄₇	1376	8.16 ^{+0.06} _{-0.06}	18.53 ^{+0.06} _{-0.06}	2.09E+37	6.94E+34
1384	58727.005982256	563.1 ^{+1.4} _{-1.4}	3.4 ^{+0.5} _{-0.5}	196 ⁺⁹¹ ₋₉₁	1168	2.56 ^{+0.02} _{-0.02}	8.58 ^{+0.08} _{-0.08}	9.19E+36	8.21E+34
1385	58727.006099033	562.9 ^{+1.3} _{-1.3}	2.3 ^{+0.3} _{-0.3}	75 ⁺²⁷ ₋₂₇	1428	3.08 ^{+0.02} _{-0.02}	7.07 ^{+0.06} _{-0.06}	7.57E+36	6.74E+34
1386	58727.006099120	562.9 ^{+1.2} _{-1.2}	2.1 ^{+0.7} _{-0.7}	206 ⁺⁵ ₋₅	1342	8.05 ^{+0.06} _{-0.06}	16.76 ^{+0.04} _{-0.04}	1.89E+37	4.62E+34
1387	58727.006186014	563.2 ^{+1.3} _{-1.3}	4.2 ^{+1.6} _{-1.6}	55 ⁺²⁷ ₋₂₇	1359	6.35 ^{+0.05} _{-0.05}	26.99 ^{+0.08} _{-0.08}	3.05E+37	9.14E+34
1388	58727.007054522	562.5 ^{+1.2} _{-1.2}	3.2 ^{+1.1} _{-1.1}	108 ⁺²² ₋₂₂	1163	8.52 ^{+0.07} _{-0.07}	27.60 ^{+0.08} _{-0.08}	3.12E+37	8.57E+34
1389	58727.007117006	565.7 ^{+0.4} _{-0.4}	4.0 ^{+0.4} _{-0.4}	202 ⁺⁵¹ ₋₅₁	1267	69.56 ^{+5.10} _{-5.10}	281.02 ^{+1.78} _{-1.78}	3.01E+38	1.91E+36
1390	58727.007627626	563.2 ^{+1.3} _{-1.3}	4.9 ^{+1.5} _{-1.5}	53 ⁺¹⁸ ₋₁₈	1071	7.93 ^{+0.06} _{-0.06}	38.83 ^{+0.09} _{-0.09}	4.39E+37	1.03E+35
1391	58727.007635608	563.7 ^{+1.1} _{-1.1}	4.6 ^{+1.2} _{-1.2}	180 ⁺³⁰ ₋₃₀	1362	12.66 ^{+0.10} _{-0.10}	57.90 ^{+0.12} _{-0.12}	6.54E+37	1.34E+35
1392	58727.007744850	563.2 ^{+1.3} _{-1.3}	4.0 ^{+1.4} _{-1.4}	59 ⁺⁴ ₋₄	1342	8.68 ^{+0.07} _{-0.07}	34.29 ^{+0.09} _{-0.09}	3.87E+37	1.05E+35
1393	58727.007910474	564.8 ^{+0.6} _{-0.6}	5.0 ^{+1.9} _{-1.9}	145 ⁺⁸² ₋₈₂	1272	7.57 ^{+0.06} _{-0.06}	37.76 ^{+0.11} _{-0.11}	4.27E+37	1.29E+35
1394	58727.008002282	562.8 ^{+1.3} _{-1.3}	7.0 ^{+2.8} _{-2.8}	255 ⁺¹²² ₋₁₂₂	1186	6.63 ^{+0.05} _{-0.05}	46.13 ^{+0.15} _{-0.15}	5.21E+37	1.66E+35
1395	58727.008205988	563.3 ^{+1.1} _{-1.1}	11.3 ^{+4.3} _{-4.3}	50 ⁺²³ ₋₂₃	1367	7.77 ^{+0.06} _{-0.06}	88.00 ^{+0.26} _{-0.26}	9.94E+37	2.93E+35
1396	58727.008859891	563.2 ^{+1.5} _{-1.5}	13.0 ^{+2.6} _{-2.6}	173 ⁺¹⁵⁵ ₋₁₅₅	1137	17.69 ^{+2.84} _{-2.84}	230.68 ^{+7.30} _{-7.30}	2.47E+38	7.81E+36
1397	58727.008935493	564.9 ^{+1.0} _{-1.0}	3.4 ^{+0.6} _{-0.6}	186 ⁺³⁹ ₋₃₉	1248	12.29 ^{+0.10} _{-0.10}	41.79 ^{+0.06} _{-0.06}	4.72E+37	7.02E+34
1398	58727.009024749	563.6 ^{+0.9} _{-0.9}	3.1 ^{+0.8} _{-0.8}	45 ⁺²⁸ ₋₂₈	1117	9.73 ^{+0.08} _{-0.08}	30.61 ^{+0.06} _{-0.06}	3.46E+37	6.87E+34
1399	58727.010033933	563.0 ^{+1.3} _{-1.3}	4.0 ^{+0.9} _{-0.9}	128 ⁺²⁴ ₋₂₄	1152	12.00 ^{+0.10} _{-0.10}	47.85 ^{+0.09} _{-0.09}	5.41E+37	9.86E+34
1400	58727.010949919	563.8 ^{+0.4} _{-0.4}	4.0 ^{+1.4} _{-1.4}	145 ⁺²¹ ₋₂₁	1295	7.59 ^{+0.06} _{-0.06}	30.57 ^{+0.08} _{-0.08}	3.45E+37	9.34E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1401	58727.010950055	565.1 ^{+0.6} _{-0.6}	2.9 ^{+0.7} _{-0.7}	128 ⁺³⁵ ₋₃₅	1081	7.83 ^{+0.06} _{-0.06}	23.03 ^{+0.05} _{-0.05}	2.60E+37	5.26E+34
1402	58727.011103518	563.5 ^{+1.3} _{-1.3}	9.1 ^{+2.0} _{-2.0}	201 ⁺³ ₋₃	1336	8.72 ^{+0.07} _{-0.07}	79.05 ^{+0.14} _{-0.14}	8.93E+37	1.61E+35
1403	58727.011103661	563.3 ^{+1.3} _{-1.3}	4.1 ^{+1.4} _{-1.4}	72 ⁺²⁶ ₋₂₆	1409	7.29 ^{+0.06} _{-0.06}	29.73 ^{+0.08} _{-0.08}	3.36E+37	9.17E+34
1404	58727.011883685	561.4 ^{+0.4} _{-0.4}	7.0 ^{+1.1} _{-1.1}	295 ⁺¹⁰⁸ ₋₁₀₈	1260	9.77 ^{+0.08} _{-0.08}	68.19 ^{+0.08} _{-0.08}	7.71E+37	9.45E+34
1405	58727.011883998	561.7 ^{+1.0} _{-1.0}	5.0 ^{+1.8} _{-1.8}	88 ⁺²⁸ ₋₂₈	1189	7.71 ^{+0.06} _{-0.06}	38.18 ^{+0.11} _{-0.11}	4.31E+37	1.24E+35
1406	58727.012360955	564.7 ^{+1.0} _{-1.0}	5.7 ^{+1.7} _{-1.7}	65 ⁺³ ₋₃	1088	4.88 ^{+0.04} _{-0.04}	27.65 ^{+0.07} _{-0.07}	3.12E+37	7.57E+34
1407	58727.012896632	561.2 ^{+0.8} _{-0.8}	3.6 ^{+0.9} _{-0.9}	75 ⁺¹⁴ ₋₁₄	1390	10.02 ^{+0.08} _{-0.08}	36.27 ^{+0.07} _{-0.07}	4.10E+37	8.44E+34
1408	58727.012954540	563.1 ^{+1.3} _{-1.3}	7.5 ^{+1.1} _{-1.1}	50 ⁺²⁷ ₋₂₇	1439	10.59 ^{+0.09} _{-0.09}	79.86 ^{+0.73} _{-0.73}	8.55E+37	7.85E+35
1409	58727.013072516	564.5 ^{+0.2} _{-0.2}	2.7 ^{+0.2} _{-0.2}	91 ⁺⁴⁹ ₋₄₉	1169	124.44 ^{+6.04} _{-6.04}	331.01 ^{+0.91} _{-0.91}	3.54E+38	9.70E+35
1410	58727.013738146	564.5 ^{+0.3} _{-0.3}	2.4 ^{+0.2} _{-0.2}	173 ⁺³⁰ ₋₃₀	1322	109.12 ^{+6.26} _{-6.26}	265.16 ^{+1.00} _{-1.00}	2.84E+38	1.07E+36
1411	58727.013738151	564.5 ^{+0.3} _{-0.3}	2.8 ^{+0.4} _{-0.4}	193 ⁺³⁷ ₋₃₇	1317	21.92 ^{+0.18} _{-0.18}	60.30 ^{+0.56} _{-0.56}	6.46E+37	6.00E+35
1412	58727.014446362	563.9 ^{+1.3} _{-1.3}	5.1 ^{+1.9} _{-1.9}	228 ⁺¹⁰ ₋₁₀	1299	5.61 ^{+0.05} _{-0.05}	28.74 ^{+0.09} _{-0.09}	3.25E+37	9.85E+34
1413	58727.014978881	563.6 ^{+0.4} _{-0.4}	3.7 ^{+0.5} _{-0.5}	133 ⁺⁴⁰ ₋₄₀	1420	12.79 ^{+0.10} _{-0.10}	47.61 ^{+0.45} _{-0.45}	5.10E+37	4.79E+35
1414	58727.015406564	562.8 ^{+1.2} _{-1.2}	2.7 ^{+0.4} _{-0.4}	93 ⁺⁵¹ ₋₅₁	1260	10.78 ^{+0.09} _{-0.09}	28.81 ^{+0.27} _{-0.27}	3.08E+37	2.91E+35
1415	58727.015517316	562.5 ^{+1.3} _{-1.3}	4.4 ^{+1.7} _{-1.7}	243 ⁺⁵ ₋₅	1219	6.54 ^{+0.05} _{-0.05}	29.05 ^{+0.09} _{-0.09}	3.28E+37	1.01E+35
1416	58727.015836106	562.4 ^{+0.4} _{-0.4}	3.0 ^{+0.5} _{-0.5}	89 ⁺⁶² ₋₆₂	1240	11.60 ^{+0.10} _{-0.10}	35.19 ^{+0.05} _{-0.05}	3.98E+37	6.01E+34
1417	58727.017397320	563.1 ^{+0.3} _{-0.3}	1.8 ^{+0.3} _{-0.3}	76 ⁺²⁴ ₋₂₄	1375	14.42 ^{+0.12} _{-0.12}	26.59 ^{+0.04} _{-0.04}	3.00E+37	4.37E+34
1418	58727.017898597	564.4 ^{+1.1} _{-1.1}	3.7 ^{+1.1} _{-1.1}	63 ⁺³⁴ ₋₃₄	1102	7.92 ^{+0.07} _{-0.07}	29.56 ^{+0.08} _{-0.08}	3.34E+37	8.56E+34
1419	58727.018314966	561.2 ^{+0.2} _{-0.2}	3.6 ^{+0.4} _{-0.4}	175 ⁺³⁷ ₋₃₇	1401	52.60 ^{+5.16} _{-5.16}	190.94 ^{+2.17} _{-2.17}	2.04E+38	2.32E+36
1420	58727.018690402	564.5 ^{+1.2} _{-1.2}	5.0 ^{+2.2} _{-2.2}	179 ⁺⁹ ₋₉	1304	7.47 ^{+0.06} _{-0.06}	37.60 ^{+0.14} _{-0.14}	4.25E+37	1.58E+35
1421	58727.019178288	564.4 ^{+0.9} _{-0.9}	3.3 ^{+0.9} _{-0.9}	165 ⁺⁴³ ₋₄₃	1348	10.16 ^{+0.09} _{-0.09}	33.41 ^{+0.08} _{-0.08}	3.78E+37	9.19E+34
1422	58727.019229234	565.2 ^{+0.3} _{-0.3}	3.6 ^{+0.5} _{-0.5}	85 ⁺⁴ ₋₄	1390	15.16 ^{+0.13} _{-0.13}	54.09 ^{+0.53} _{-0.53}	5.79E+37	5.68E+35
1423	58727.019229256	565.2 ^{+0.3} _{-0.3}	3.2 ^{+0.3} _{-0.3}	82 ⁺²⁶ ₋₂₆	1424	81.62 ^{+5.47} _{-5.47}	261.18 ^{+1.42} _{-1.42}	2.80E+38	1.52E+36
1424	58727.019338336	564.5 ^{+0.9} _{-0.9}	4.2 ^{+1.6} _{-1.6}	53 ⁺¹⁶ ₋₁₆	1359	7.92 ^{+0.07} _{-0.07}	33.27 ^{+0.11} _{-0.11}	3.76E+37	1.21E+35
1425	58727.019881039	563.7 ^{+1.3} _{-1.3}	4.8 ^{+2.1} _{-2.1}	40 ⁺⁶ ₋₆	1424	5.00 ^{+0.04} _{-0.04}	23.96 ^{+0.09} _{-0.09}	2.71E+37	1.01E+35
1426	58727.019905036	562.4 ^{+0.9} _{-0.9}	3.2 ^{+0.6} _{-0.6}	136 ⁺³⁵ ₋₃₅	1160	8.58 ^{+0.07} _{-0.07}	27.63 ^{+0.05} _{-0.05}	3.12E+37	5.20E+34
1427	58727.019905293	564.0 ^{+1.2} _{-1.2}	8.3 ^{+2.2} _{-2.2}	200 ⁺¹³ ₋₁₃	1174	7.64 ^{+0.07} _{-0.07}	63.40 ^{+0.14} _{-0.14}	7.16E+37	1.61E+35
1428	58727.019977069	562.7 ^{+0.8} _{-0.8}	2.8 ^{+0.3} _{-0.3}	102 ⁺⁶⁴ ₋₆₄	1336	21.12 ^{+0.18} _{-0.18}	58.52 ^{+0.05} _{-0.05}	6.61E+37	6.01E+34
1429	58727.019986210	563.4 ^{+1.2} _{-1.2}	5.2 ^{+0.7} _{-0.7}	74 ⁺¹⁴ ₋₁₄	1296	6.38 ^{+0.06} _{-0.06}	32.95 ^{+0.33} _{-0.33}	3.53E+37	3.48E+35
1430	58727.020148996	562.9 ^{+1.4} _{-1.4}	3.0 ^{+0.7} _{-0.7}	118 ⁺⁴ ₋₄	1134	7.15 ^{+0.06} _{-0.06}	21.27 ^{+0.04} _{-0.04}	2.40E+37	4.69E+34
1431	58727.020933828	562.8 ^{+1.3} _{-1.3}	2.7 ^{+0.8} _{-0.8}	121 ⁺¹⁸ ₋₁₈	1160	6.03 ^{+0.05} _{-0.05}	16.40 ^{+0.04} _{-0.04}	1.85E+37	4.43E+34
1432	58727.021131799	563.6 ^{+0.7} _{-0.7}	3.3 ^{+1.0} _{-1.0}	41 ⁺¹⁰ ₋₁₀	1344	6.94 ^{+0.06} _{-0.06}	22.95 ^{+0.06} _{-0.06}	2.59E+37	6.58E+34
1433	58727.021260377	565.1 ^{+0.8} _{-0.8}	10.4 ^{+0.8} _{-0.8}	141 ⁺⁷ ₋₇	1422	48.07 ^{+3.12} _{-3.12}	499.45 ^{+2.50} _{-2.50}	5.35E+38	2.67E+36
1434	58727.021371406	563.6 ^{+1.2} _{-1.2}	4.5 ^{+1.2} _{-1.2}	95 ⁺⁴² ₋₄₂	1194	7.46 ^{+0.07} _{-0.07}	33.80 ^{+0.08} _{-0.08}	3.82E+37	9.15E+34
1435	58727.021371728	564.5 ^{+1.2} _{-1.2}	6.2 ^{+2.2} _{-2.2}	252 ⁺⁸⁰ ₋₈₀	1253	5.48 ^{+0.05} _{-0.05}	33.75 ^{+0.11} _{-0.11}	3.81E+37	1.22E+35
1436	58727.021913570	563.2 ^{+1.1} _{-1.1}	3.7 ^{+2.3} _{-2.3}	13 ⁺⁵ ₋₅	1086	3.28 ^{+0.03} _{-0.03}	12.01 ^{+0.07} _{-0.07}	1.36E+37	7.47E+34
1437	58727.021913745	563.0 ^{+1.2} _{-1.2}	2.9 ^{+1.5} _{-1.5}	51 ⁺⁴ ₋₄	1396	4.91 ^{+0.04} _{-0.04}	14.43 ^{+0.07} _{-0.07}	1.63E+37	7.41E+34
1438	58727.022557807	564.6 ^{+0.7} _{-0.7}	3.3 ^{+0.4} _{-0.4}	301 ⁺³⁷ ₋₃₇	1202	24.62 ^{+0.22} _{-0.22}	82.04 ^{+0.08} _{-0.08}	9.27E+37	9.59E+34
1439	58727.023001738	563.6 ^{+1.2} _{-1.2}	5.9 ^{+1.8} _{-1.8}	187 ⁺⁶⁸ ₋₆₈	1326	8.07 ^{+0.07} _{-0.07}	47.70 ^{+0.13} _{-0.13}	5.39E+37	1.43E+35
1440	58727.023340429	563.9 ^{+1.1} _{-1.1}	5.7 ^{+2.6} _{-2.6}	66 ⁺⁵ ₋₅	1397	4.15 ^{+0.04} _{-0.04}	23.72 ^{+0.10} _{-0.10}	2.68E+37	1.10E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1441	58727.023743382	562.4 ^{+0.7} _{-0.7}	3.3 ^{+1.0} _{-1.0}	63 ⁺³² ₋₃₂	1387	10.13 ^{+0.09} _{-0.09}	33.66 ^{+0.09} _{-0.09}	3.80E+37	9.99E+34
1442	58727.024336437	563.9 ^{+0.3} _{-0.3}	3.0 ^{+0.3} _{-0.3}	170 ⁺³¹ ₋₃₁	1338	17.26 ^{+0.15} _{-0.15}	51.26 ^{+0.05} _{-0.05}	5.79E+37	5.27E+34
1443	58727.024336544	564.2 ^{+0.4} _{-0.4}	8.8 ^{+3.7} _{-3.7}	209 ⁺⁴ ₋₄	1330	5.00 ^{+0.04} _{-0.04}	43.99 ^{+0.17} _{-0.17}	4.97E+37	1.89E+35
1444	58727.024614914	562.7 ^{+1.2} _{-1.2}	4.4 ^{+0.7} _{-0.7}	109 ⁺¹³ ₋₁₃	1249	52.22 ^{+4.67} _{-4.67}	232.38 ^{+3.27} _{-3.27}	2.49E+38	3.50E+36
1445	58727.024614980	562.7 ^{+1.2} _{-1.2}	4.4 ^{+1.0} _{-1.0}	138 ⁺¹⁵ ₋₁₅	1220	36.56 ^{+4.78} _{-4.78}	159.77 ^{+4.78} _{-4.78}	1.71E+38	5.12E+36
1446	58727.024816275	563.6 ^{+1.3} _{-1.3}	6.0 ^{+1.1} _{-1.1}	115 ⁺²⁷ ₋₂₇	1416	10.29 ^{+0.09} _{-0.09}	61.95 ^{+0.10} _{-0.10}	7.00E+37	1.12E+35
1447	58727.024940482	564.7 ^{+0.9} _{-0.9}	3.9 ^{+0.8} _{-0.8}	216 ⁺⁶⁶ ₋₆₆	1211	7.35 ^{+0.07} _{-0.07}	28.60 ^{+0.05} _{-0.05}	3.23E+37	6.00E+34
1448	58727.025052825	562.9 ^{+1.2} _{-1.2}	2.8 ^{+0.6} _{-0.6}	103 ⁺⁸ ₋₈	1127	9.87 ^{+0.09} _{-0.09}	27.59 ^{+0.06} _{-0.06}	3.12E+37	6.37E+34
1449	58727.025291971	563.8 ^{+1.0} _{-1.0}	3.4 ^{+0.9} _{-0.9}	139 ⁺¹⁴⁵ ₋₁₄₅	1285	8.85 ^{+0.08} _{-0.08}	30.48 ^{+0.07} _{-0.07}	3.44E+37	8.40E+34
1450	58727.025491162	563.1 ^{+1.2} _{-1.2}	1.5 ^{+0.7} _{-0.7}	225 ⁺¹⁷ ₋₁₇	1301	4.54 ^{+0.04} _{-0.04}	6.83 ^{+0.03} _{-0.03}	7.72E+36	3.09E+34
1451	58727.025766186	564.7 ^{+1.0} _{-1.0}	3.4 ^{+0.7} _{-0.7}	87 ⁺⁴ ₋₄	1367	7.76 ^{+0.07} _{-0.07}	26.45 ^{+0.05} _{-0.05}	2.99E+37	5.51E+34
1452	58727.026017183	564.8 ^{+0.7} _{-0.7}	14.1 ^{+3.8} _{-3.8}	70 ⁺⁴⁴ ₋₄₄	1113	7.46 ^{+0.07} _{-0.07}	104.79 ^{+0.26} _{-0.26}	1.18E+38	2.90E+35
1453	58727.026586170	563.4 ^{+0.2} _{-0.2}	2.6 ^{+0.2} _{-0.2}	130 ⁺²⁰ ₋₂₀	1149	25.27 ^{+0.23} _{-0.23}	64.43 ^{+0.04} _{-0.04}	7.28E+37	4.96E+34
1454	58727.026629575	564.4 ^{+1.0} _{-1.0}	4.9 ^{+1.1} _{-1.1}	59 ⁺⁵ ₋₅	1351	8.07 ^{+0.07} _{-0.07}	39.85 ^{+0.08} _{-0.08}	4.50E+37	9.06E+34
1455	58727.027125747	563.4 ^{+1.1} _{-1.1}	11.0 ^{+4.8} _{-4.8}	47 ⁺³ ₋₃	1026	4.01 ^{+0.04} _{-0.04}	44.18 ^{+0.18} _{-0.18}	4.99E+37	2.02E+35
1456	58727.027352705	564.0 ^{+0.6} _{-0.6}	3.9 ^{+1.1} _{-1.1}	75 ⁺²³ ₋₂₃	1354	7.36 ^{+0.07} _{-0.07}	28.46 ^{+0.07} _{-0.07}	3.22E+37	8.39E+34
1457	58727.027424687	563.2 ^{+0.9} _{-0.9}	2.9 ^{+0.6} _{-0.6}	258 ⁺⁵ ₋₅	1186	8.64 ^{+0.08} _{-0.08}	24.82 ^{+0.05} _{-0.05}	2.80E+37	5.23E+34
1458	58727.027567391	564.3 ^{+0.4} _{-0.4}	4.8 ^{+0.2} _{-0.2}	249 ⁺³⁴ ₋₃₄	1231	109.44 ^{+4.69} _{-4.69}	519.84 ^{+1.08} _{-1.08}	5.56E+38	1.15E+36
1459	58727.027748192	562.9 ^{+0.2} _{-0.2}	4.0 ^{+0.6} _{-0.6}	344 ⁺²⁸ ₋₂₈	1215	13.53 ^{+0.12} _{-0.12}	53.84 ^{+0.56} _{-0.56}	5.76E+37	6.04E+35
1460	58727.027832134	564.4 ^{+0.9} _{-0.9}	5.1 ^{+1.7} _{-1.7}	74 ⁺¹⁰ ₋₁₀	1407	5.88 ^{+0.05} _{-0.05}	30.01 ^{+0.09} _{-0.09}	3.39E+37	1.02E+35
1461	58727.028179432	562.6 ^{+0.3} _{-0.3}	2.2 ^{+0.7} _{-0.7}	68 ⁺²² ₋₂₂	1435	6.27 ^{+0.06} _{-0.06}	13.75 ^{+0.04} _{-0.04}	1.55E+37	4.88E+34
1462	58727.028194730	563.6 ^{+1.3} _{-1.3}	4.2 ^{+1.1} _{-1.1}	289 ⁺¹²⁶ ₋₁₂₆	1250	7.57 ^{+0.07} _{-0.07}	31.93 ^{+0.07} _{-0.07}	3.61E+37	8.32E+34
1463	58727.028235994	564.4 ^{+0.7} _{-0.7}	2.9 ^{+1.4} _{-1.4}	141 ⁺²²⁹ ₋₂₂₉	1216	5.34 ^{+0.05} _{-0.05}	15.29 ^{+0.07} _{-0.07}	1.73E+37	7.71E+34
1464	58727.028641840	563.1 ^{+1.2} _{-1.2}	6.2 ^{+0.9} _{-0.9}	48 ⁺¹⁸ ₋₁₈	1358	9.16 ^{+0.09} _{-0.09}	56.47 ^{+0.60} _{-0.60}	6.04E+37	6.42E+35
1465	58727.029080594	563.9 ^{+1.0} _{-1.0}	4.4 ^{+1.4} _{-1.4}	130 ⁺²¹ ₋₂₁	1352	9.01 ^{+0.08} _{-0.08}	39.30 ^{+0.12} _{-0.12}	4.44E+37	1.33E+35
1466	58727.029877117	563.3 ^{+1.3} _{-1.3}	5.1 ^{+0.7} _{-0.7}	229 ⁺⁶³ ₋₆₃	1203	6.88 ^{+0.06} _{-0.06}	34.89 ^{+0.37} _{-0.37}	3.74E+37	3.98E+35
1467	58727.029975764	564.7 ^{+0.8} _{-0.8}	9.9 ^{+2.5} _{-2.5}	61 ⁺¹⁰ ₋₁₀	1292	9.96 ^{+0.09} _{-0.09}	98.81 ^{+0.23} _{-0.23}	1.12E+38	2.60E+35
1468	58727.029976044	562.6 ^{+0.6} _{-0.6}	15.9 ^{+4.4} _{-4.4}	88 ⁺¹³ ₋₁₃	1053	9.66 ^{+0.09} _{-0.09}	153.14 ^{+0.40} _{-0.40}	1.73E+38	4.57E+35
1469	58727.030021804	563.2 ^{+0.9} _{-0.9}	4.1 ^{+2.2} _{-2.2}	57 ⁺²⁹ ₋₂₉	1115	5.27 ^{+0.05} _{-0.05}	21.73 ^{+0.11} _{-0.11}	2.46E+37	1.22E+35
1470	58727.030363587	563.6 ^{+1.4} _{-1.4}	3.6 ^{+0.5} _{-0.5}	190 ⁺¹² ₋₁₂	1394	13.24 ^{+0.12} _{-0.12}	47.45 ^{+0.51} _{-0.51}	5.08E+37	5.44E+35
1471	58727.030757172	563.0 ^{+1.1} _{-1.1}	6.6 ^{+3.7} _{-3.7}	118 ⁺⁵ ₋₅	1290	4.79 ^{+0.04} _{-0.04}	31.61 ^{+0.16} _{-0.16}	3.57E+37	1.86E+35
1472	58727.030822807	563.2 ^{+1.1} _{-1.1}	4.3 ^{+1.5} _{-1.5}	117 ⁺¹⁴³ ₋₁₄₃	1179	6.67 ^{+0.06} _{-0.06}	28.61 ^{+0.10} _{-0.10}	3.23E+37	1.09E+35
1473	58727.030856200	562.0 ^{+0.8} _{-0.8}	8.0 ^{+1.2} _{-1.2}	58 ⁺³⁴ ₋₃₄	1355	6.46 ^{+0.06} _{-0.06}	51.73 ^{+0.56} _{-0.56}	5.54E+37	5.99E+35
1474	58727.031250845	562.6 ^{+1.2} _{-1.2}	8.5 ^{+3.4} _{-3.4}	56 ⁺³⁰ ₋₃₀	1429	6.75 ^{+0.06} _{-0.06}	57.64 ^{+0.22} _{-0.22}	6.51E+37	2.43E+35
1475	58727.032131927	564.1 ^{+1.1} _{-1.1}	3.0 ^{+0.8} _{-0.8}	122 ⁺⁶⁴ ₋₆₄	1385	6.15 ^{+0.06} _{-0.06}	18.27 ^{+0.05} _{-0.05}	2.06E+37	5.63E+34
1476	58727.032132485	563.7 ^{+0.9} _{-0.9}	6.0 ^{+2.4} _{-2.4}	288 ⁺⁴⁴ ₋₄₄	1247	6.23 ^{+0.06} _{-0.06}	37.63 ^{+0.15} _{-0.15}	4.25E+37	1.66E+35
1477	58727.032132576	563.8 ^{+1.1} _{-1.1}	4.9 ^{+0.7} _{-0.7}	64 ⁺⁴⁶ ₋₄₆	1378	8.48 ^{+0.08} _{-0.08}	41.29 ^{+0.45} _{-0.45}	4.42E+37	4.77E+35
1478	58727.032132729	563.1 ^{+1.4} _{-1.4}	5.9 ^{+2.1} _{-2.1}	66 ⁺⁹ ₋₉	1082	6.49 ^{+0.06} _{-0.06}	38.26 ^{+0.13} _{-0.13}	4.32E+37	1.45E+35
1479	58727.032177507	562.5 ^{+1.0} _{-1.0}	10.3 ^{+2.8} _{-2.8}	140 ⁺¹³ ₋₁₃	1386	8.81 ^{+0.08} _{-0.08}	90.88 ^{+0.23} _{-0.23}	1.03E+38	2.65E+35
1480	58727.032233736	564.5 ^{+0.5} _{-0.5}	2.2 ^{+0.6} _{-0.6}	48 ⁺²⁸ ₋₂₈	1426	6.73 ^{+0.07} _{-0.07}	15.05 ^{+0.04} _{-0.04}	1.70E+37	4.68E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1481	58727.032505948	563.3 ^{+1.1} _{-1.1}	1.9 ^{+0.6} _{-0.6}	62 ⁺²⁰ ₋₂₀	1428	7.37 ^{+0.07} _{-0.07}	13.85 ^{+0.04} _{-0.04}	1.57E+37	4.83E+34
1482	58727.032516475	563.1 ^{+1.3} _{-1.3}	6.3 ^{+3.0} _{-3.0}	84 ⁺²⁶ ₋₂₆	1400	5.60 ^{+0.05} _{-0.05}	35.56 ^{+0.16} _{-0.16}	4.02E+37	1.81E+35
1483	58727.032742824	561.3 ^{+0.3} _{-0.3}	2.4 ^{+0.2} _{-0.2}	160 ⁺¹² ₋₁₂	1410	73.50 ^{+6.34} _{-6.34}	172.72 ^{+1.59} _{-1.59}	1.85E+38	1.70E+36
1484	58727.032742834	561.3 ^{+0.3} _{-0.3}	2.6 ^{+0.4} _{-0.4}	166 ⁺¹⁵ ₋₁₅	1403	17.21 ^{+0.16} _{-0.16}	44.22 ^{+0.48} _{-0.48}	4.73E+37	5.16E+35
1485	58727.034372875	565.5 ^{+0.4} _{-0.4}	3.7 ^{+1.2} _{-1.2}	73 ⁺¹⁶ ₋₁₆	1397	9.59 ^{+0.09} _{-0.09}	35.39 ^{+0.12} _{-0.12}	4.00E+37	1.30E+35
1486	58727.034759073	564.0 ^{+0.7} _{-0.7}	5.6 ^{+1.3} _{-1.3}	96 ⁺³⁸ ₋₃₈	1303	7.12 ^{+0.07} _{-0.07}	39.70 ^{+0.09} _{-0.09}	4.49E+37	1.00E+35
1487	58727.035360335	562.7 ^{+1.2} _{-1.2}	1.9 ^{+0.5} _{-0.5}	58 ⁺³³ ₋₃₃	1375	9.55 ^{+0.09} _{-0.09}	17.70 ^{+0.05} _{-0.05}	2.00E+37	5.33E+34
1488	58727.035727992	561.9 ^{+1.4} _{-1.4}	4.7 ^{+1.6} _{-1.6}	165 ⁺⁷⁵ ₋₇₅	1325	6.76 ^{+0.07} _{-0.07}	31.73 ^{+0.10} _{-0.10}	3.59E+37	1.18E+35
1489	58727.035824755	561.4 ^{+0.8} _{-0.8}	5.3 ^{+0.8} _{-0.8}	110 ⁺¹⁸ ₋₁₈	1207	10.05 ^{+0.10} _{-0.10}	53.09 ^{+0.59} _{-0.59}	5.68E+37	6.34E+35
1490	58727.035824814	561.4 ^{+0.8} _{-0.8}	6.7 ^{+0.8} _{-0.8}	141 ⁺¹⁸ ₋₁₈	1207	40.16 ^{+4.07} _{-4.07}	270.28 ^{+3.30} _{-3.30}	2.89E+38	3.53E+36
1491	58727.036269515	562.5 ^{+1.3} _{-1.3}	9.2 ^{+2.2} _{-2.2}	93 ⁺⁴⁵ ₋₄₅	1325	10.27 ^{+0.10} _{-0.10}	94.51 ^{+0.22} _{-0.22}	1.07E+38	2.46E+35
1492	58727.036895452	562.4 ^{+0.9} _{-0.9}	3.2 ^{+1.1} _{-1.1}	60 ⁺⁹ ₋₉	1405	5.77 ^{+0.06} _{-0.06}	18.55 ^{+0.06} _{-0.06}	2.10E+37	6.82E+34
1493	58727.036920692	565.1 ^{+0.8} _{-0.8}	4.2 ^{+0.5} _{-0.5}	130 ⁺¹² ₋₁₂	1410	55.87 ^{+5.27} _{-5.27}	233.54 ^{+2.42} _{-2.42}	2.50E+38	2.60E+36
1494	58727.036982479	562.6 ^{+1.4} _{-1.4}	6.0 ^{+1.3} _{-1.3}	70 ⁺⁴⁸ ₋₄₈	1202	10.16 ^{+0.10} _{-0.10}	60.80 ^{+0.13} _{-0.13}	6.87E+37	1.47E+35
1495	58727.037071914	562.8 ^{+1.2} _{-1.2}	3.7 ^{+0.7} _{-0.7}	108 ⁺²⁷ ₋₂₇	1332	11.02 ^{+0.11} _{-0.11}	40.84 ^{+0.08} _{-0.08}	4.61E+37	9.09E+34
1496	58727.037326508	562.7 ^{+1.3} _{-1.3}	6.3 ^{+1.3} _{-1.3}	51 ⁺²³ ₋₂₃	1388	7.47 ^{+0.07} _{-0.07}	47.09 ^{+0.09} _{-0.09}	5.32E+37	1.06E+35
1497	58727.037897042	563.1 ^{+1.3} _{-1.3}	5.7 ^{+1.7} _{-1.7}	159 ⁺⁴ ₋₄	1221	8.34 ^{+0.08} _{-0.08}	47.71 ^{+0.14} _{-0.14}	5.39E+37	1.57E+35
1498	58727.038379712	563.7 ^{+0.7} _{-0.7}	2.9 ^{+0.5} _{-0.5}	60 ⁺³⁶ ₋₃₆	1365	13.57 ^{+0.14} _{-0.14}	39.10 ^{+0.06} _{-0.06}	4.42E+37	7.14E+34
1499	58727.040099734	562.3 ^{+1.2} _{-1.2}	4.5 ^{+1.0} _{-1.0}	101 ⁺³⁰ ₋₃₀	1151	7.13 ^{+0.07} _{-0.07}	32.42 ^{+0.07} _{-0.07}	3.66E+37	8.18E+34
1500	58727.040347148	563.6 ^{+0.9} _{-0.9}	11.0 ^{+0.8} _{-0.8}	131 ⁺¹¹ ₋₁₁	1431	52.06 ^{+3.23} _{-3.23}	575.26 ^{+2.68} _{-2.68}	6.16E+38	2.87E+36
1501	58727.040806787	562.9 ^{+1.1} _{-1.1}	4.7 ^{+1.4} _{-1.4}	71 ⁺³³ ₋₃₃	1370	6.26 ^{+0.07} _{-0.07}	29.27 ^{+0.09} _{-0.09}	3.31E+37	1.00E+35
1502	58727.042465483	563.8 ^{+1.3} _{-1.3}	3.6 ^{+0.8} _{-0.8}	61 ⁺²³ ₋₂₃	1259	9.37 ^{+0.10} _{-0.10}	34.00 ^{+0.07} _{-0.07}	3.84E+37	8.39E+34
1503	58727.042716939	562.7 ^{+1.2} _{-1.2}	4.9 ^{+1.4} _{-1.4}	197 ⁺⁵⁷ ₋₅₇	1247	7.98 ^{+0.08} _{-0.08}	39.27 ^{+0.11} _{-0.11}	4.44E+37	1.28E+35
1504	58727.043741382	563.1 ^{+1.2} _{-1.2}	4.8 ^{+1.5} _{-1.5}	108 ⁺⁶² ₋₆₂	1199	5.48 ^{+0.06} _{-0.06}	26.12 ^{+0.09} _{-0.09}	2.95E+37	9.65E+34
1505	58727.043786897	563.7 ^{+1.4} _{-1.4}	5.2 ^{+0.7} _{-0.7}	113 ⁺²³ ₋₂₃	1115	6.01 ^{+0.06} _{-0.06}	31.23 ^{+0.37} _{-0.37}	3.34E+37	4.01E+35
1506	58727.043994915	562.9 ^{+1.3} _{-1.3}	4.0 ^{+1.1} _{-1.1}	113 ⁺⁴ ₋₄	1360	6.10 ^{+0.06} _{-0.06}	24.21 ^{+0.07} _{-0.07}	2.74E+37	7.77E+34
1507	58727.044023842	563.3 ^{+1.2} _{-1.2}	4.3 ^{+1.1} _{-1.1}	70 ⁺¹⁷ ₋₁₇	1365	8.51 ^{+0.09} _{-0.09}	36.61 ^{+0.10} _{-0.10}	4.14E+37	1.10E+35
1508	58727.044284573	563.1 ^{+1.2} _{-1.2}	6.5 ^{+0.9} _{-0.9}	123 ⁺⁴⁵ ₋₄₅	1126	8.69 ^{+0.09} _{-0.09}	56.82 ^{+0.68} _{-0.68}	6.08E+37	7.29E+35
1509	58727.044979132	562.1 ^{+0.8} _{-0.8}	2.1 ^{+0.3} _{-0.3}	151 ⁺¹⁶ ₋₁₆	1394	19.69 ^{+0.21} _{-0.21}	41.34 ^{+0.50} _{-0.50}	4.43E+37	5.35E+35
1510	58727.045768341	561.8 ^{+1.0} _{-1.0}	3.2 ^{+0.7} _{-0.7}	110 ⁺⁷ ₋₇	1235	9.56 ^{+0.10} _{-0.10}	30.89 ^{+0.07} _{-0.07}	3.49E+37	7.86E+34
1511	58727.045800858	562.9 ^{+1.3} _{-1.3}	2.4 ^{+0.5} _{-0.5}	51 ⁺¹⁴ ₋₁₄	1126	7.36 ^{+0.08} _{-0.08}	17.76 ^{+0.04} _{-0.04}	2.01E+37	4.64E+34
1512	58727.046173325	563.0 ^{+1.4} _{-1.4}	4.7 ^{+1.3} _{-1.3}	229 ⁺⁴ ₋₄	1213	7.15 ^{+0.08} _{-0.08}	33.67 ^{+0.10} _{-0.10}	3.80E+37	1.16E+35
1513	58727.046327486	561.4 ^{+0.7} _{-0.7}	1.8 ^{+0.2} _{-0.2}	115 ⁺³³ ₋₃₃	1388	13.51 ^{+0.14} _{-0.14}	23.63 ^{+0.04} _{-0.04}	2.67E+37	4.04E+34
1514	58727.046327914	562.9 ^{+1.5} _{-1.5}	7.7 ^{+2.6} _{-2.6}	110 ⁺²⁹ ₋₂₉	1185	5.09 ^{+0.06} _{-0.06}	39.05 ^{+0.14} _{-0.14}	4.41E+37	1.61E+35
1515	58727.046400269	563.4 ^{+1.3} _{-1.3}	6.4 ^{+1.8} _{-1.8}	46 ⁺⁵³ ₋₅₃	1155	6.57 ^{+0.07} _{-0.07}	42.00 ^{+0.13} _{-0.13}	4.75E+37	1.48E+35
1516	58727.046406476	563.6 ^{+1.2} _{-1.2}	4.1 ^{+1.0} _{-1.0}	109 ⁺⁵⁵ ₋₅₅	1386	7.71 ^{+0.08} _{-0.08}	31.93 ^{+0.08} _{-0.08}	3.61E+37	9.18E+34
1517	58727.046835738	562.9 ^{+0.3} _{-0.3}	3.5 ^{+0.8} _{-0.8}	114 ⁺⁴⁰ ₋₄₀	1189	6.66 ^{+0.07} _{-0.07}	22.98 ^{+0.06} _{-0.06}	2.60E+37	6.49E+34
1518	58727.047426292	563.4 ^{+1.3} _{-1.3}	6.8 ^{+1.0} _{-1.0}	63 ⁺¹⁹ ₋₁₉	1317	7.18 ^{+0.08} _{-0.08}	49.15 ^{+0.08} _{-0.08}	5.55E+37	9.13E+34
1519	58727.047915730	563.0 ^{+0.9} _{-0.9}	2.5 ^{+0.4} _{-0.4}	61 ⁺⁵ ₋₅	1423	8.02 ^{+0.09} _{-0.09}	20.11 ^{+0.04} _{-0.04}	2.27E+37	4.22E+34
1520	58727.048897857	563.7 ^{+1.1} _{-1.1}	7.5 ^{+1.1} _{-1.1}	104 ⁺²⁴ ₋₂₄	1244	13.77 ^{+0.15} _{-0.15}	103.58 ^{+1.29} _{-1.29}	1.11E+38	1.38E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1521	58727.048897879	563.7 ^{+1.1} _{-1.1}	7.6 ^{+0.7} _{-0.7}	159 ⁺¹⁵ ₋₁₅	1202	50.71 ^{+4.07} _{-4.07}	386.92 ^{+2.93} _{-2.93}	4.14E+38	3.14E+36
1522	58727.049734195	563.0 ^{+1.1} _{-1.1}	10.5 ^{+4.0} _{-4.0}	81 ⁺¹² ₋₁₂	1186	4.68 ^{+0.05} _{-0.05}	49.03 ^{+0.20} _{-0.20}	5.54E+37	2.31E+35
1523	58727.049825802	563.1 ^{+0.5} _{-0.5}	3.2 ^{+0.6} _{-0.6}	91 ⁺¹⁶ ₋₁₆	1191	11.60 ^{+0.13} _{-0.13}	37.38 ^{+0.08} _{-0.08}	4.22E+37	8.85E+34
1524	58727.049834906	563.0 ^{+1.2} _{-1.2}	7.8 ^{+1.9} _{-1.9}	61 ⁺⁴ ₋₄	1411	7.50 ^{+0.08} _{-0.08}	58.59 ^{+0.16} _{-0.16}	6.62E+37	1.77E+35
1525	58727.050883468	563.3 ^{+1.1} _{-1.1}	2.4 ^{+0.4} _{-0.4}	148 ⁺⁴¹ ₋₄₁	1375	14.26 ^{+0.16} _{-0.16}	34.42 ^{+0.06} _{-0.06}	3.89E+37	6.87E+34
1526	58727.050884449	563.7 ^{+1.1} _{-1.1}	1.8 ^{+0.5} _{-0.5}	86 ⁺⁴ ₋₄	1103	5.88 ^{+0.07} _{-0.07}	10.44 ^{+0.03} _{-0.03}	1.18E+37	3.87E+34
1527	58727.051567406	563.3 ^{+0.7} _{-0.7}	5.4 ^{+2.4} _{-2.4}	163 ⁺⁸ ₋₈	1290	5.03 ^{+0.06} _{-0.06}	27.03 ^{+0.13} _{-0.13}	3.05E+37	1.51E+35
1528	58727.051712645	564.5 ^{+0.9} _{-0.9}	2.6 ^{+0.6} _{-0.6}	108 ⁺⁴ ₋₄	1171	9.17 ^{+0.10} _{-0.10}	23.85 ^{+0.06} _{-0.06}	2.70E+37	6.35E+34
1529	58727.051782320	561.9 ^{+0.5} _{-0.5}	3.0 ^{+0.4} _{-0.4}	107 ⁺²⁵ ₋₂₅	1177	57.89 ^{+6.71} _{-6.71}	172.51 ^{+2.82} _{-2.82}	1.85E+38	3.02E+36
1530	58727.051782332	563.2 ^{+0.3} _{-0.3}	3.1 ^{+0.3} _{-0.3}	159 ⁺²⁸ ₋₂₈	1118	15.23 ^{+0.17} _{-0.17}	46.86 ^{+0.05} _{-0.05}	5.29E+37	5.80E+34
1531	58727.051900207	563.5 ^{+1.2} _{-1.2}	2.4 ^{+0.5} _{-0.5}	92 ⁺³⁷ ₋₃₇	1136	10.70 ^{+0.12} _{-0.12}	25.73 ^{+0.06} _{-0.06}	2.91E+37	6.39E+34
1532	58727.052354302	562.9 ^{+1.3} _{-1.3}	2.9 ^{+1.0} _{-1.0}	42 ⁺⁴ ₋₄	1319	3.66 ^{+0.04} _{-0.04}	10.69 ^{+0.04} _{-0.04}	1.21E+37	4.43E+34
1533	58727.052812626	564.6 ^{+0.3} _{-0.3}	2.4 ^{+0.2} _{-0.2}	88 ⁺¹⁸ ₋₁₈	1268	13.89 ^{+0.16} _{-0.16}	33.76 ^{+0.04} _{-0.04}	3.82E+37	4.19E+34
1534	58727.053343406	562.1 ^{+0.5} _{-0.5}	4.0 ^{+0.6} _{-0.6}	60 ⁺²² ₋₂₂	1123	8.34 ^{+0.10} _{-0.10}	33.39 ^{+0.06} _{-0.06}	3.77E+37	6.54E+34
1535	58727.053859007	565.1 ^{+1.1} _{-1.1}	4.1 ^{+0.9} _{-0.9}	193 ⁺⁶ ₋₆	1246	8.04 ^{+0.09} _{-0.09}	33.21 ^{+0.08} _{-0.08}	3.75E+37	9.17E+34
1536	58727.054061900	564.0 ^{+1.1} _{-1.1}	9.4 ^{+2.2} _{-2.2}	135 ⁺⁶⁵ ₋₆₅	1235	7.51 ^{+0.09} _{-0.09}	70.78 ^{+0.19} _{-0.19}	8.00E+37	2.09E+35
1537	58727.054799029	560.7 ^{+0.6} _{-0.6}	3.5 ^{+0.5} _{-0.5}	88 ⁺⁹ ₋₉	1280	7.29 ^{+0.08} _{-0.08}	25.60 ^{+0.33} _{-0.33}	2.74E+37	3.57E+35
1538	58727.055044790	563.1 ^{+0.6} _{-0.6}	3.5 ^{+0.5} _{-0.5}	77 ⁺⁵³ ₋₅₃	1239	13.69 ^{+0.16} _{-0.16}	48.05 ^{+0.08} _{-0.08}	5.43E+37	9.03E+34
1539	58727.055049859	562.9 ^{+1.3} _{-1.3}	9.3 ^{+3.2} _{-3.2}	87 ⁺¹⁸ ₋₁₈	1363	5.40 ^{+0.06} _{-0.06}	50.05 ^{+0.20} _{-0.20}	5.66E+37	2.24E+35
1540	58727.055078812	561.3 ^{+1.0} _{-0.7}	4.3 ^{+1.0} _{-1.0}	76 ⁺⁶⁵ ₋₆₅	1319	7.97 ^{+0.09} _{-0.09}	33.95 ^{+0.09} _{-0.09}	3.84E+37	1.00E+35
1541	58727.055347209	562.8 ^{+1.2} _{-1.2}	2.9 ^{+0.5} _{-0.5}	94 ⁺³⁷ ₋₃₇	1117	10.82 ^{+0.12} _{-0.12}	31.64 ^{+0.06} _{-0.06}	3.58E+37	7.01E+34
1542	58727.056655717	562.4 ^{+0.9} _{-0.9}	2.4 ^{+0.4} _{-0.4}	55 ⁺¹⁵ ₋₁₅	1415	11.09 ^{+0.13} _{-0.13}	26.69 ^{+0.05} _{-0.05}	3.02E+37	5.96E+34
1543	58727.057515019	563.2 ^{+1.2} _{-1.2}	4.0 ^{+1.2} _{-1.2}	136 ⁺⁴⁶ ₋₄₆	1292	6.69 ^{+0.08} _{-0.08}	26.69 ^{+0.09} _{-0.09}	3.02E+37	1.03E+35
1544	58727.058190707	561.7 ^{+0.4} _{-0.4}	3.7 ^{+1.2} _{-1.2}	140 ⁺⁶⁶ ₋₆₆	1341	4.96 ^{+0.06} _{-0.06}	18.56 ^{+0.07} _{-0.07}	2.10E+37	8.33E+34
1545	58727.058798601	562.4 ^{+0.9} _{-0.9}	4.3 ^{+0.6} _{-0.6}	77 ⁺⁴⁶ ₋₄₆	1214	14.16 ^{+0.17} _{-0.17}	60.20 ^{+0.81} _{-0.81}	6.44E+37	8.64E+35
1546	58727.058798609	562.4 ^{+0.9} _{-0.9}	5.9 ^{+0.6} _{-0.6}	121 ⁺⁴⁰ ₋₄₀	1134	54.54 ^{+5.04} _{-5.04}	322.33 ^{+3.28} _{-3.28}	3.45E+38	3.51E+36
1547	58727.059839151	563.2 ^{+1.2} _{-1.2}	5.2 ^{+1.5} _{-1.5}	255 ⁺⁷ ₋₇	1315	6.48 ^{+0.08} _{-0.08}	33.37 ^{+0.12} _{-0.12}	3.77E+37	1.32E+35
1548	58727.062752172	565.8 ^{+0.1} _{-0.1}	3.1 ^{+0.3} _{-0.3}	437 ⁺²⁶ ₋₂₆	1235	84.97 ^{+6.70} _{-6.70}	265.96 ^{+2.01} _{-2.01}	2.85E+38	2.15E+36
1549	58727.064838683	560.5 ^{+0.9} _{-0.9}	3.0 ^{+0.6} _{-0.6}	95 ⁺²⁹ ₋₂₉	1257	8.79 ^{+0.11} _{-0.11}	26.68 ^{+0.06} _{-0.06}	3.01E+37	7.16E+34
1550	58727.065057165	562.5 ^{+1.3} _{-1.3}	8.5 ^{+2.9} _{-2.9}	146 ⁺⁵ ₋₅	1307	7.19 ^{+0.09} _{-0.09}	60.94 ^{+0.26} _{-0.26}	6.89E+37	2.95E+35
1551	58727.065057579	564.4 ^{+1.1} _{-1.1}	8.8 ^{+1.7} _{-1.7}	95 ⁺⁴¹ ₋₄₁	1110	9.98 ^{+0.12} _{-0.12}	88.25 ^{+0.21} _{-0.21}	9.97E+37	2.37E+35
1552	58727.065656459	562.9 ^{+1.7} _{-1.7}	5.8 ^{+1.7} _{-1.7}	66 ⁺⁴ ₋₄	1418	7.00 ^{+0.09} _{-0.09}	40.95 ^{+0.15} _{-0.15}	4.63E+37	1.69E+35
1553	58727.067068779	564.8 ^{+0.6} _{-0.6}	3.6 ^{+0.8} _{-0.8}	239 ⁺³⁰ ₋₃₀	1277	7.40 ^{+0.09} _{-0.09}	26.66 ^{+0.07} _{-0.07}	3.01E+37	8.23E+34
1554	58727.067315271	564.7 ^{+0.3} _{-0.3}	4.5 ^{+0.3} _{-0.3}	340 ⁺¹⁷ ₋₁₇	1290	102.01 ^{+5.87} _{-5.87}	454.96 ^{+1.76} _{-1.76}	4.87E+38	1.89E+36
1555	58727.067462201	563.9 ^{+1.0} _{-1.0}	5.4 ^{+0.8} _{-0.8}	143 ⁺⁴⁷ ₋₄₇	1179	11.19 ^{+0.14} _{-0.14}	60.85 ^{+0.11} _{-0.11}	6.88E+37	1.27E+35
1556	58727.067776519	562.6 ^{+1.3} _{-1.3}	3.2 ^{+1.2} _{-1.2}	72 ⁺⁵ ₋₅	1346	5.42 ^{+0.07} _{-0.07}	17.24 ^{+0.08} _{-0.08}	1.95E+37	9.55E+34
1557	58727.068755848	564.4 ^{+1.1} _{-1.1}	7.6 ^{+3.2} _{-3.2}	297 ⁺¹⁴⁷ ₋₁₄₇	1201	6.12 ^{+0.08} _{-0.08}	46.66 ^{+0.24} _{-0.24}	5.27E+37	2.77E+35
1558	58727.069413791	563.4 ^{+1.1} _{-1.1}	5.1 ^{+2.7} _{-2.7}	51 ⁺³ ₋₃	1348	4.51 ^{+0.06} _{-0.06}	23.01 ^{+0.15} _{-0.15}	2.60E+37	1.71E+35
1559	58727.069414491	562.6 ^{+1.1} _{-1.1}	4.7 ^{+2.8} _{-2.8}	70 ⁺⁴ ₋₄	1082	3.82 ^{+0.05} _{-0.05}	17.97 ^{+0.13} _{-0.13}	2.03E+37	1.51E+35
1560	58727.069528648	563.3 ^{+1.3} _{-1.3}	10.9 ^{+3.3} _{-3.3}	74 ⁺¹⁰ ₋₁₀	1413	8.21 ^{+0.10} _{-0.10}	89.81 ^{+0.35} _{-0.35}	1.01E+38	3.92E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1561	58727.069780656	561.7 ^{+0.8} _{-0.8}	2.7 ^{+0.9} _{-0.9}	93 ⁺²⁹ ₋₂₉	1381	10.42 ^{+0.13} _{-0.13}	27.64 ^{+0.11} _{-0.11}	3.12E+37	1.28E+35
1562	58727.072171091	564.0 ^{+1.2} _{-1.2}	5.0 ^{+2.2} _{-2.2}	36 ⁺¹⁰ ₋₁₀	1440	6.88 ^{+0.07} _{-0.07}	34.22 ^{+0.15} _{-0.15}	3.87E+37	1.64E+35
1563	58727.072817972	561.9 ^{+0.6} _{-0.6}	7.7 ^{+1.1} _{-1.1}	158 ⁺¹³ ₋₁₃	1409	7.20 ^{+0.07} _{-0.07}	55.63 ^{+0.62} _{-0.62}	5.96E+37	6.62E+35
1564	58727.072891776	563.2 ^{+1.2} _{-1.2}	2.9 ^{+1.0} _{-1.0}	126 ⁺²⁸ ₋₂₈	1361	8.04 ^{+0.08} _{-0.08}	22.95 ^{+0.07} _{-0.07}	2.59E+37	8.43E+34
1565	58727.075754923	562.2 ^{+1.0} _{-1.0}	5.6 ^{+0.8} _{-0.8}	37 ⁺³ ₋₃	1434	12.49 ^{+0.13} _{-0.13}	69.60 ^{+0.81} _{-0.81}	7.45E+37	8.67E+35
1566	58727.077168665	561.8 ^{+1.1} _{-1.1}	1.7 ^{+0.9} _{-0.9}	79 ⁺¹⁷ ₋₁₇	1361	4.64 ^{+0.05} _{-0.05}	8.08 ^{+0.04} _{-0.04}	9.13E+36	4.92E+34
1567	58727.078392787	563.4 ^{+1.2} _{-1.2}	6.7 ^{+2.2} _{-2.2}	224 ⁺³⁷ ₋₃₇	1282	7.11 ^{+0.07} _{-0.07}	47.60 ^{+0.16} _{-0.16}	5.38E+37	1.85E+35
1568	58727.078741104	563.2 ^{+1.2} _{-1.2}	5.2 ^{+0.8} _{-0.8}	303 ⁺⁵ ₋₅	1277	8.70 ^{+0.09} _{-0.09}	45.55 ^{+0.56} _{-0.56}	4.88E+37	5.96E+35
1569	58727.079926669	561.9 ^{+1.3} _{-1.3}	9.1 ^{+5.6} _{-5.6}	37 ⁺⁴ ₋₄	1427	3.69 ^{+0.04} _{-0.04}	33.49 ^{+0.22} _{-0.22}	3.78E+37	2.54E+35
1570	58727.080579733	563.1 ^{+1.3} _{-1.3}	4.4 ^{+1.5} _{-1.5}	81 ⁺⁴⁰ ₋₄₀	1334	9.25 ^{+0.10} _{-0.10}	40.66 ^{+0.15} _{-0.15}	4.59E+37	1.71E+35
1571	58727.080999220	564.0 ^{+1.3} _{-1.3}	6.7 ^{+1.0} _{-1.0}	57 ⁺³³ ₋₃₃	1386	10.52 ^{+0.12} _{-0.12}	70.56 ^{+0.89} _{-0.89}	7.55E+37	9.53E+35
1572	58727.081668551	564.3 ^{+1.0} _{-1.0}	6.4 ^{+3.5} _{-3.5}	36 ⁺³ ₋₃	1408	5.15 ^{+0.06} _{-0.06}	32.74 ^{+0.20} _{-0.20}	3.70E+37	2.29E+35
1573	58727.081668717	563.8 ^{+1.1} _{-1.1}	7.6 ^{+3.1} _{-3.1}	131 ⁺¹¹⁶ ₋₁₁₆	1386	5.91 ^{+0.07} _{-0.07}	44.80 ^{+0.21} _{-0.21}	5.06E+37	2.32E+35
1574	58727.081736135	564.8 ^{+0.9} _{-0.9}	5.6 ^{+1.2} _{-1.2}	71 ⁺³ ₋₃	1394	7.48 ^{+0.08} _{-0.08}	41.84 ^{+0.10} _{-0.10}	4.72E+37	1.11E+35
1575	58727.082415235	562.4 ^{+0.4} _{-0.4}	4.1 ^{+1.3} _{-1.3}	112 ⁺⁶⁷ ₋₆₇	1289	9.44 ^{+0.11} _{-0.11}	38.67 ^{+0.14} _{-0.14}	4.37E+37	1.63E+35
1576	58727.082464761	563.2 ^{+1.2} _{-1.2}	5.5 ^{+1.3} _{-1.3}	91 ⁺⁴ ₋₄	1377	10.87 ^{+0.12} _{-0.12}	59.87 ^{+0.16} _{-0.16}	6.76E+37	1.77E+35
1577	58727.083598132	563.1 ^{+1.3} _{-1.3}	4.6 ^{+1.4} _{-1.4}	76 ⁺³⁴ ₋₃₄	1408	8.26 ^{+0.10} _{-0.10}	38.24 ^{+0.14} _{-0.14}	4.32E+37	1.55E+35
1578	58727.083623463	562.5 ^{+1.2} _{-1.2}	5.7 ^{+2.1} _{-2.1}	49 ⁺⁵ ₋₅	1416	5.05 ^{+0.06} _{-0.06}	28.77 ^{+0.12} _{-0.12}	3.25E+37	1.38E+35
1579	58727.084352151	563.2 ^{+1.3} _{-1.3}	4.4 ^{+1.3} _{-1.3}	449 ⁺²⁸ ₋₂₈	1236	8.98 ^{+0.10} _{-0.10}	39.50 ^{+0.14} _{-0.14}	4.46E+37	1.57E+35
1580	58727.084398652	564.9 ^{+0.9} _{-0.9}	5.4 ^{+1.6} _{-1.6}	112 ⁺¹² ₋₁₂	1420	10.48 ^{+0.12} _{-0.12}	56.93 ^{+0.20} _{-0.20}	6.43E+37	2.22E+35
1581	58727.084931824	564.2 ^{+1.0} _{-1.0}	3.1 ^{+0.6} _{-0.6}	80 ⁺⁷⁶ ₋₇₆	1061	14.73 ^{+0.17} _{-0.17}	45.06 ^{+0.11} _{-0.11}	5.09E+37	1.28E+35
1582	58727.085152828	564.0 ^{+0.6} _{-0.6}	3.3 ^{+0.5} _{-0.5}	88 ⁺³⁷ ₋₃₇	1351	9.45 ^{+0.11} _{-0.11}	30.93 ^{+0.06} _{-0.06}	3.49E+37	6.53E+34
1583	58727.085906275	564.8 ^{+0.9} _{-0.9}	3.5 ^{+1.1} _{-1.1}	87 ⁺²⁴ ₋₂₄	1443	12.25 ^{+0.15} _{-0.15}	43.10 ^{+0.17} _{-0.17}	4.87E+37	1.87E+35
1584	58727.086591402	563.3 ^{+1.4} _{-1.4}	4.8 ^{+1.3} _{-1.3}	164 ⁺⁶⁷ ₋₆₇	1299	13.42 ^{+0.16} _{-0.16}	64.80 ^{+0.21} _{-0.21}	7.32E+37	2.36E+35
1585	58727.087542750	563.2 ^{+1.2} _{-1.2}	8.8 ^{+4.6} _{-4.6}	49 ⁺⁶ ₋₆	1343	6.20 ^{+0.08} _{-0.08}	54.47 ^{+0.35} _{-0.35}	6.16E+37	3.94E+35
1586	58727.087795298	562.9 ^{+1.3} _{-1.3}	4.6 ^{+1.1} _{-1.1}	39 ⁺¹⁹ ₋₁₉	1424	10.85 ^{+0.13} _{-0.13}	49.60 ^{+0.14} _{-0.14}	5.61E+37	1.58E+35
1587	58727.087795657	563.4 ^{+1.1} _{-1.1}	7.2 ^{+2.6} _{-2.6}	71 ⁺⁹ ₋₉	1120	7.08 ^{+0.09} _{-0.09}	51.18 ^{+0.23} _{-0.23}	5.78E+37	2.61E+35
1588	58727.088272219	564.8 ^{+0.1} _{-0.1}	6.0 ^{+1.3} _{-1.3}	428 ⁺⁶⁴ ₋₆₄	1285	51.88 ^{+6.52} _{-6.52}	310.24 ^{+8.28} _{-8.28}	3.32E+38	8.86E+36
1589	58727.088272286	564.8 ^{+0.1} _{-0.1}	4.4 ^{+0.6} _{-0.6}	95 ⁺⁵⁴ ₋₅₄	1225	57.35 ^{+0.71} _{-0.71}	253.21 ^{+3.59} _{-3.59}	2.71E+38	3.84E+36
1590	58727.088468292	563.1 ^{+1.1} _{-1.1}	3.3 ^{+1.0} _{-1.0}	380 ⁺⁸⁰ ₋₈₀	1226	6.55 ^{+0.08} _{-0.08}	21.63 ^{+0.08} _{-0.08}	2.44E+37	9.33E+34
1591	58727.088614612	564.3 ^{+0.9} _{-0.9}	6.6 ^{+0.9} _{-0.9}	95 ⁺³¹ ₋₃₁	1388	14.17 ^{+0.18} _{-0.18}	92.89 ^{+1.32} _{-1.32}	9.94E+37	1.41E+36
1592	58727.089009707	563.7 ^{+0.7} _{-0.7}	1.6 ^{+0.3} _{-0.3}	62 ⁺²⁶ ₋₂₆	1098	12.38 ^{+0.16} _{-0.16}	19.78 ^{+0.05} _{-0.05}	2.23E+37	5.13E+34
1593	58727.089145782	563.5 ^{+1.3} _{-1.3}	3.6 ^{+1.7} _{-1.7}	117 ⁺²⁹ ₋₂₉	1259	6.66 ^{+0.08} _{-0.08}	24.04 ^{+0.15} _{-0.15}	2.72E+37	1.65E+35
1594	58727.089225727	563.8 ^{+1.3} _{-1.3}	5.7 ^{+1.8} _{-1.8}	71 ⁺⁴ ₋₄	1418	8.10 ^{+0.10} _{-0.10}	46.35 ^{+0.19} _{-0.19}	5.24E+37	2.13E+35
1595	58727.089936492	563.2 ^{+1.2} _{-1.2}	3.7 ^{+1.4} _{-1.4}	62 ⁺¹¹ ₋₁₁	1140	6.67 ^{+0.09} _{-0.09}	24.55 ^{+0.12} _{-0.12}	2.77E+37	1.38E+35
1596	58727.090306963	564.0 ^{+0.9} _{-0.9}	3.5 ^{+1.1} _{-1.1}	49 ⁺³ ₋₃	1411	7.45 ^{+0.10} _{-0.10}	25.78 ^{+0.10} _{-0.10}	2.91E+37	1.13E+35
1597	58727.090307135	565.2 ^{+0.7} _{-0.7}	2.2 ^{+0.6} _{-0.6}	275 ⁺¹³² ₋₁₃₂	1191	9.81 ^{+0.13} _{-0.13}	21.34 ^{+0.08} _{-0.08}	2.41E+37	8.64E+34
1598	58727.090887692	563.5 ^{+1.2} _{-1.2}	6.9 ^{+3.5} _{-3.5}	56 ⁺²² ₋₂₂	1144	6.21 ^{+0.08} _{-0.08}	42.82 ^{+0.28} _{-0.28}	4.84E+37	3.22E+35
1599	58727.090887940	562.6 ^{+1.0} _{-1.0}	1.8 ^{+1.1} _{-1.1}	241 ⁺⁷⁸ ₋₇₈	1237	4.80 ^{+0.06} _{-0.06}	8.81 ^{+0.07} _{-0.07}	9.96E+36	7.81E+34
1600	58727.091222578	563.2 ^{+1.2} _{-1.2}	2.0 ^{+0.8} _{-0.8}	222 ⁺¹²⁸ ₋₁₂₈	1334	5.76 ^{+0.07} _{-0.07}	11.66 ^{+0.06} _{-0.06}	1.32E+37	7.04E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1601	58727.091896740	564.6 ^{+0.7} _{-0.7}	3.8 ^{+1.1} _{-1.1}	54 ⁺³⁰ ₋₃₀	1394	8.75 ^{+0.12} _{-0.12}	33.60 ^{+0.13} _{-0.13}	3.80E+37	1.48E+35
1602	58727.092404814	563.7 ^{+1.0} _{-1.0}	1.6 ^{+0.4} _{-0.4}	109 ⁺⁵¹ ₋₅₁	1372	11.47 ^{+0.15} _{-0.15}	17.94 ^{+0.05} _{-0.05}	2.03E+37	6.13E+34
1603	58727.093075700	564.4 ^{+1.1} _{-1.1}	10.9 ^{+1.2} _{-1.2}	194 ⁺²⁵ ₋₂₅	1249	47.37 ^{+4.50} _{-4.50}	518.23 ^{+5.54} _{-5.54}	5.55E+38	5.93E+36
1604	58727.093591003	563.1 ^{+0.8} _{-0.8}	4.7 ^{+1.0} _{-1.0}	62 ⁺²¹ ₋₂₁	1159	10.52 ^{+0.14} _{-0.14}	49.20 ^{+0.15} _{-0.15}	5.56E+37	1.68E+35
1605	58727.093871818	563.7 ^{+1.3} _{-1.3}	4.5 ^{+1.0} _{-1.0}	106 ⁺⁵⁵ ₋₅₅	1178	8.62 ^{+0.12} _{-0.12}	38.54 ^{+0.12} _{-0.12}	4.35E+37	1.35E+35
1606	58727.095055799	562.9 ^{+1.2} _{-1.2}	6.1 ^{+2.3} _{-2.3}	64 ⁺²⁸ ₋₂₈	1150	6.56 ^{+0.09} _{-0.09}	40.17 ^{+0.21} _{-0.21}	4.54E+37	2.39E+35
1607	58727.095289853	564.3 ^{+0.7} _{-0.7}	3.3 ^{+0.9} _{-0.9}	80 ⁺³ ₋₃	1392	9.70 ^{+0.14} _{-0.14}	32.24 ^{+0.12} _{-0.12}	3.64E+37	1.38E+35
1608	58727.096003830	563.3 ^{+1.2} _{-1.2}	2.5 ^{+1.7} _{-1.7}	140 ⁺⁵ ₋₅	1323	3.37 ^{+0.05} _{-0.05}	8.48 ^{+0.08} _{-0.08}	9.58E+36	9.21E+34
1609	58727.096004064	562.7 ^{+1.3} _{-1.3}	8.0 ^{+3.5} _{-3.5}	121 ⁺¹¹ ₋₁₁	1324	4.80 ^{+0.07} _{-0.07}	38.21 ^{+0.23} _{-0.23}	4.32E+37	2.62E+35
1610	58727.096985552	563.8 ^{+1.0} _{-1.0}	5.5 ^{+1.4} _{-1.4}	227 ⁺¹¹⁶ ₋₁₁₆	1173	8.06 ^{+0.12} _{-0.12}	44.61 ^{+0.16} _{-0.16}	5.04E+37	1.81E+35
1611	58727.096986075	563.1 ^{+1.4} _{-1.4}	6.5 ^{+2.3} _{-2.3}	217 ⁺⁴ ₋₄	1245	5.94 ^{+0.09} _{-0.09}	38.32 ^{+0.19} _{-0.19}	4.33E+37	2.19E+35
1612	58727.097364183	563.2 ^{+1.0} _{-1.0}	6.6 ^{+0.9} _{-0.9}	167 ⁺²⁷ ₋₂₇	1278	12.06 ^{+0.17} _{-0.17}	79.32 ^{+1.30} _{-1.30}	8.49E+37	1.39E+36
1613	58727.097364217	563.2 ^{+1.0} _{-1.0}	5.6 ^{+0.7} _{-0.7}	199 ⁺¹⁵ ₋₁₅	1255	59.98 ^{+6.33} _{-6.33}	337.69 ^{+4.56} _{-4.56}	3.61E+38	4.88E+36
1614	58727.097600321	563.0 ^{+1.3} _{-1.3}	5.4 ^{+1.8} _{-1.8}	216 ⁺³ ₋₃	1221	7.97 ^{+0.11} _{-0.11}	43.36 ^{+0.20} _{-0.20}	4.90E+37	2.26E+35
1615	58727.097814390	563.5 ^{+1.4} _{-1.4}	8.8 ^{+1.3} _{-1.3}	252 ⁺⁹⁸ ₋₉₈	1313	8.75 ^{+0.13} _{-0.13}	77.19 ^{+1.27} _{-1.27}	8.26E+37	1.36E+36
1616	58727.099172221	563.2 ^{+0.4} _{-0.4}	3.1 ^{+1.0} _{-1.0}	94 ⁺¹⁴ ₋₁₄	1408	6.10 ^{+0.09} _{-0.09}	19.18 ^{+0.09} _{-0.09}	2.17E+37	1.05E+35
1617	58727.100383299	563.6 ^{+0.2} _{-0.2}	6.2 ^{+0.4} _{-0.4}	170 ⁺⁹ ₋₉	1099	98.17 ^{+6.17} _{-6.17}	604.73 ^{+2.71} _{-2.71}	6.47E+38	2.91E+36
1618	58727.100383322	563.6 ^{+0.2} _{-0.2}	6.7 ^{+1.0} _{-1.0}	138 ⁺¹⁹ ₋₁₉	1086	25.83 ^{+0.39} _{-0.39}	172.44 ^{+2.95} _{-2.95}	1.85E+38	3.16E+36
1619	58727.100502037	564.2 ^{+1.1} _{-1.1}	5.8 ^{+1.6} _{-1.6}	98 ⁺⁴ ₋₄	1392	7.38 ^{+0.11} _{-0.11}	42.47 ^{+0.17} _{-0.17}	4.80E+37	1.97E+35
1620	58727.100968516	564.8 ^{+0.7} _{-0.7}	3.9 ^{+0.6} _{-0.6}	53 ⁺³³ ₋₃₃	1421	12.59 ^{+0.19} _{-0.19}	48.69 ^{+0.11} _{-0.11}	5.50E+37	1.27E+35
1621	58727.101013294	564.1 ^{+0.4} _{-0.4}	2.5 ^{+0.4} _{-0.4}	97 ⁺⁴⁰ ₋₄₀	1387	14.54 ^{+0.22} _{-0.22}	36.46 ^{+0.08} _{-0.08}	4.12E+37	8.78E+34
1622	58727.102211196	563.1 ^{+0.8} _{-0.8}	2.3 ^{+0.6} _{-0.6}	99 ⁺⁶ ₋₆	1371	7.85 ^{+0.12} _{-0.12}	18.01 ^{+0.07} _{-0.07}	2.04E+37	8.04E+34
1623	58727.102456632	563.9 ^{+1.3} _{-1.3}	5.2 ^{+1.1} _{-1.1}	211 ⁺⁵ ₋₅	1216	8.55 ^{+0.13} _{-0.13}	44.76 ^{+0.15} _{-0.15}	5.06E+37	1.70E+35
1624	58727.103136405	564.2 ^{+1.2} _{-1.2}	4.1 ^{+0.9} _{-0.9}	74 ⁺³² ₋₃₂	1326	9.17 ^{+0.14} _{-0.14}	37.63 ^{+0.13} _{-0.13}	4.25E+37	1.51E+35
1625	58727.103495753	562.9 ^{+0.1} _{-0.1}	1.6 ^{+0.1} _{-0.1}	196 ⁺⁵⁵ ₋₅₅	1342	25.88 ^{+0.41} _{-0.41}	40.91 ^{+0.06} _{-0.06}	4.62E+37	6.30E+34
1626	58727.884045674	562.9 ^{+1.1} _{-1.1}	7.3 ^{+1.9} _{-1.9}	82 ⁺¹⁵ ₋₁₅	1256	7.87 ^{+0.12} _{-0.12}	57.22 ^{+0.21} _{-0.21}	6.47E+37	2.43E+35
1627	58727.885987022	563.5 ^{+0.5} _{-0.5}	3.4 ^{+0.5} _{-0.5}	176 ⁺⁴² ₋₄₂	1392	23.08 ^{+0.31} _{-0.31}	79.45 ^{+0.15} _{-0.15}	8.98E+37	1.66E+35
1628	58727.887481453	563.2 ^{+1.2} _{-1.2}	7.9 ^{+3.1} _{-3.1}	52 ⁺¹⁴ ₋₁₄	1378	7.30 ^{+0.10} _{-0.10}	57.40 ^{+0.30} _{-0.30}	6.49E+37	3.37E+35
1629	58727.888414271	562.7 ^{+1.2} _{-1.2}	10.3 ^{+0.8} _{-0.8}	132 ⁺¹⁸ ₋₁₈	1237	18.05 ^{+0.23} _{-0.23}	185.61 ^{+0.18} _{-0.18}	2.10E+38	2.05E+35
1630	58727.888718759	562.2 ^{+1.2} _{-1.2}	3.5 ^{+1.3} _{-1.3}	163 ⁺⁷⁰ ₋₇₀	1194	7.15 ^{+0.09} _{-0.09}	25.16 ^{+0.12} _{-0.12}	2.84E+37	1.38E+35
1631	58727.890321849	563.1 ^{+1.3} _{-1.3}	3.7 ^{+0.8} _{-0.8}	55 ⁺³⁰ ₋₃₀	1109	10.01 ^{+0.12} _{-0.12}	37.54 ^{+0.10} _{-0.10}	4.24E+37	1.11E+35
1632	58727.890814497	563.1 ^{+1.2} _{-1.2}	3.7 ^{+1.1} _{-1.1}	285 ⁺⁴ ₋₄	1257	10.78 ^{+0.13} _{-0.13}	39.96 ^{+0.14} _{-0.14}	4.52E+37	1.59E+35
1633	58727.892494891	562.5 ^{+1.2} _{-1.2}	5.3 ^{+1.5} _{-1.5}	120 ⁺⁶ ₋₆	1136	7.52 ^{+0.09} _{-0.09}	40.07 ^{+0.14} _{-0.14}	4.53E+37	1.54E+35
1634	58727.894669925	562.5 ^{+1.2} _{-1.2}	4.3 ^{+1.0} _{-1.0}	159 ⁺⁴⁸ ₋₄₈	1178	9.24 ^{+0.11} _{-0.11}	40.08 ^{+0.11} _{-0.11}	4.53E+37	1.26E+35
1635	58727.895155368	563.1 ^{+1.1} _{-1.1}	4.2 ^{+0.6} _{-0.6}	57 ⁺¹⁶ ₋₁₆	1346	9.27 ^{+0.11} _{-0.11}	38.48 ^{+0.51} _{-0.51}	4.12E+37	5.44E+35
1636	58727.895817809	563.1 ^{+1.3} _{-1.3}	2.9 ^{+0.5} _{-0.5}	169 ⁺⁹ ₋₉	1201	9.83 ^{+0.11} _{-0.11}	28.56 ^{+0.06} _{-0.06}	3.23E+37	6.81E+34
1637	58727.896902152	562.1 ^{+1.1} _{-1.1}	4.1 ^{+1.4} _{-1.4}	253 ⁺¹⁶⁰ ₋₁₆₀	1173	5.88 ^{+0.07} _{-0.07}	24.14 ^{+0.09} _{-0.09}	2.73E+37	1.06E+35
1638	58727.896959694	563.4 ^{+1.2} _{-1.2}	2.2 ^{+0.4} _{-0.4}	202 ⁺⁵ ₋₅	1327	11.91 ^{+0.13} _{-0.13}	26.33 ^{+0.05} _{-0.05}	2.98E+37	5.30E+34
1639	58727.897926483	562.6 ^{+1.3} _{-1.3}	4.7 ^{+1.1} _{-1.1}	59 ⁺²⁷ ₋₂₇	1416	11.16 ^{+0.12} _{-0.12}	52.46 ^{+0.13} _{-0.13}	5.93E+37	1.50E+35
1640	58727.898760430	562.8 ^{+1.2} _{-1.2}	4.1 ^{+2.0} _{-2.0}	108 ⁺¹⁹ ₋₁₉	1385	5.22 ^{+0.06} _{-0.06}	21.49 ^{+0.11} _{-0.11}	2.43E+37	1.28E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1641	58727.898761271	563.7 ^{+1.2} _{-1.2}	4.0 ^{+0.8} _{-0.8}	51 ⁺²¹ ₋₂₁	1386	10.26 ^{+0.11} _{-0.11}	41.51 ^{+0.09} _{-0.09}	4.69E+37	1.07E+35
1642	58727.898972425	562.0 ^{+1.3} _{-1.3}	7.7 ^{+2.1} _{-2.1}	65 ⁺¹⁴ ₋₁₄	1401	6.81 ^{+0.07} _{-0.07}	52.24 ^{+0.16} _{-0.16}	5.90E+37	1.77E+35
1643	58727.899127644	563.2 ^{+1.3} _{-1.3}	4.8 ^{+1.0} _{-1.0}	179 ⁺⁵ ₋₅	1336	6.43 ^{+0.07} _{-0.07}	30.75 ^{+0.07} _{-0.07}	3.48E+37	8.23E+34
1644	58727.899379953	564.2 ^{+0.6} _{-0.6}	1.6 ^{+0.2} _{-0.2}	159 ⁺²³ ₋₂₃	1410	15.87 ^{+0.17} _{-0.17}	25.70 ^{+0.03} _{-0.03}	2.90E+37	3.70E+34
1645	58727.900770424	563.4 ^{+1.2} _{-1.2}	4.2 ^{+1.2} _{-1.2}	70 ⁺¹¹ ₋₁₁	1401	9.63 ^{+0.10} _{-0.10}	40.35 ^{+0.12} _{-0.12}	4.56E+37	1.39E+35
1646	58727.901238819	562.9 ^{+1.1} _{-1.1}	5.8 ^{+3.3} _{-3.3}	279 ⁺⁴ ₋₄	1277	4.50 ^{+0.05} _{-0.05}	25.94 ^{+0.15} _{-0.15}	2.93E+37	1.74E+35
1647	58727.901238984	563.2 ^{+1.2} _{-1.2}	2.8 ^{+0.8} _{-0.8}	78 ⁺³⁶ ₋₃₆	1403	10.18 ^{+0.11} _{-0.11}	28.54 ^{+0.09} _{-0.09}	3.23E+37	1.04E+35
1648	58727.901802781	562.4 ^{+1.3} _{-1.3}	7.9 ^{+2.1} _{-2.1}	86 ⁺²⁰ ₋₂₀	1123	10.32 ^{+0.11} _{-0.11}	81.60 ^{+0.23} _{-0.23}	9.22E+37	2.55E+35
1649	58727.902302138	563.1 ^{+1.4} _{-1.4}	3.6 ^{+0.6} _{-0.6}	60 ⁺⁶⁵ ₋₆₅	1409	10.22 ^{+0.11} _{-0.11}	36.99 ^{+0.07} _{-0.07}	4.18E+37	7.65E+34
1650	58727.902528761	563.2 ^{+1.5} _{-1.5}	3.2 ^{+1.1} _{-1.1}	43 ⁺⁴⁸ ₋₄₈	1398	5.48 ^{+0.06} _{-0.06}	17.43 ^{+0.06} _{-0.06}	1.97E+37	7.27E+34
1651	58727.902791996	563.2 ^{+1.3} _{-1.3}	5.0 ^{+2.1} _{-2.1}	57 ⁺³¹ ₋₃₁	1121	6.08 ^{+0.06} _{-0.06}	30.48 ^{+0.13} _{-0.13}	3.44E+37	1.53E+35
1652	58727.902942821	562.7 ^{+1.3} _{-1.3}	7.4 ^{+3.5} _{-3.5}	240 ⁺⁸⁶ ₋₈₆	1334	5.26 ^{+0.05} _{-0.05}	39.20 ^{+0.19} _{-0.19}	4.43E+37	2.16E+35
1653	58727.903594690	563.8 ^{+1.1} _{-1.1}	6.0 ^{+2.1} _{-2.1}	121 ⁺³² ₋₃₂	1318	5.57 ^{+0.06} _{-0.06}	33.26 ^{+0.12} _{-0.12}	3.76E+37	1.35E+35
1654	58727.903595130	563.0 ^{+1.1} _{-1.1}	1.8 ^{+0.5} _{-0.5}	55 ⁺³³ ₋₃₃	1344	7.62 ^{+0.08} _{-0.08}	13.86 ^{+0.04} _{-0.04}	1.57E+37	4.58E+34
1655	58727.904472148	563.8 ^{+0.1} _{-0.1}	4.0 ^{+0.6} _{-0.6}	468 ⁺²¹ ₋₂₁	1265	98.87 ^{+0.98} _{-0.98}	399.63 ^{+4.55} _{-4.55}	4.28E+38	4.87E+36
1656	58727.905555727	564.1 ^{+1.1} _{-1.1}	7.7 ^{+3.3} _{-3.3}	52 ⁺³² ₋₃₂	1391	7.16 ^{+0.07} _{-0.07}	55.18 ^{+0.24} _{-0.24}	6.24E+37	2.67E+35
1657	58727.906208493	563.6 ^{+1.0} _{-1.0}	7.8 ^{+1.6} _{-1.6}	75 ⁺²¹ ₋₂₁	1417	10.04 ^{+0.10} _{-0.10}	78.17 ^{+0.16} _{-0.16}	8.83E+37	1.77E+35
1658	58727.906209091	562.5 ^{+1.2} _{-1.2}	4.2 ^{+0.7} _{-0.7}	245 ⁺⁶ ₋₆	1200	8.15 ^{+0.08} _{-0.08}	33.83 ^{+0.05} _{-0.05}	3.82E+37	5.93E+34
1659	58727.906249779	563.8 ^{+1.2} _{-1.2}	4.3 ^{+1.3} _{-1.3}	130 ⁺³² ₋₃₂	1341	6.60 ^{+0.06} _{-0.06}	28.16 ^{+0.08} _{-0.08}	3.18E+37	9.54E+34
1660	58727.907235572	562.8 ^{+1.2} _{-1.2}	4.8 ^{+0.7} _{-0.7}	65 ⁺¹⁷ ₋₁₇	1379	6.06 ^{+0.06} _{-0.06}	28.78 ^{+0.32} _{-0.32}	3.08E+37	3.38E+35
1661	58727.908353617	563.2 ^{+1.3} _{-1.3}	7.7 ^{+2.4} _{-2.4}	127 ⁺¹² ₋₁₂	1255	8.80 ^{+0.11} _{-0.11}	67.56 ^{+0.27} _{-0.27}	7.63E+37	3.03E+35
1662	58727.908491967	562.7 ^{+1.3} _{-1.3}	2.3 ^{+0.6} _{-0.6}	73 ⁺³⁸ ₋₃₈	1158	6.75 ^{+0.09} _{-0.09}	15.21 ^{+0.05} _{-0.05}	1.72E+37	6.13E+34
1663	58727.908610689	563.0 ^{+1.3} _{-1.3}	3.4 ^{+1.0} _{-1.0}	66 ⁺³⁶ ₋₃₆	1115	9.24 ^{+0.12} _{-0.12}	31.43 ^{+0.11} _{-0.11}	3.55E+37	1.29E+35
1664	58727.908714531	564.7 ^{+1.1} _{-1.1}	7.1 ^{+1.0} _{-1.0}	52 ⁺³² ₋₃₂	1412	6.14 ^{+0.08} _{-0.08}	43.89 ^{+0.64} _{-0.64}	4.70E+37	6.82E+35
1665	58727.908739520	563.0 ^{+1.2} _{-1.2}	3.4 ^{+0.7} _{-0.7}	124 ⁺⁵¹ ₋₅₁	1258	10.72 ^{+0.14} _{-0.14}	36.01 ^{+0.09} _{-0.09}	4.07E+37	1.06E+35
1666	58727.909447140	563.0 ^{+1.1} _{-1.1}	4.2 ^{+0.6} _{-0.6}	55 ⁺²⁶ ₋₂₆	1110	7.44 ^{+0.09} _{-0.09}	31.44 ^{+0.06} _{-0.06}	3.55E+37	6.64E+34
1667	58727.910199843	563.1 ^{+1.3} _{-1.3}	4.0 ^{+0.7} _{-0.7}	216 ⁺⁸⁰ ₋₈₀	1218	9.03 ^{+0.11} _{-0.11}	36.52 ^{+0.08} _{-0.08}	4.13E+37	8.94E+34
1668	58727.910209503	563.0 ^{+1.2} _{-1.2}	2.5 ^{+0.6} _{-0.6}	50 ⁺¹⁶ ₋₁₆	1414	7.86 ^{+0.10} _{-0.10}	19.44 ^{+0.06} _{-0.06}	2.20E+37	6.48E+34
1669	58727.910292332	563.3 ^{+1.3} _{-1.3}	3.6 ^{+0.4} _{-0.4}	91 ⁺²² ₋₂₂	1285	16.44 ^{+0.21} _{-0.21}	58.40 ^{+0.08} _{-0.08}	6.60E+37	8.49E+34
1670	58727.910814737	562.8 ^{+1.4} _{-1.4}	4.1 ^{+0.8} _{-0.8}	57 ⁺²⁹ ₋₂₉	1334	9.30 ^{+0.12} _{-0.12}	37.71 ^{+0.09} _{-0.09}	4.26E+37	1.06E+35
1671	58727.911019746	563.3 ^{+1.2} _{-1.2}	3.1 ^{+0.8} _{-0.8}	130 ⁺⁵ ₋₅	1194	7.39 ^{+0.09} _{-0.09}	22.98 ^{+0.08} _{-0.08}	2.60E+37	8.83E+34
1672	58727.911180910	562.9 ^{+1.3} _{-1.3}	6.7 ^{+1.3} _{-1.3}	142 ⁺⁴⁴ ₋₄₄	1334	8.47 ^{+0.11} _{-0.11}	56.86 ^{+0.14} _{-0.14}	6.43E+37	1.57E+35
1673	58727.911278897	562.9 ^{+1.5} _{-1.5}	2.8 ^{+0.6} _{-0.6}	54 ⁺⁵ ₋₅	1431	8.45 ^{+0.11} _{-0.11}	23.28 ^{+0.07} _{-0.07}	2.63E+37	7.41E+34
1674	58727.911359236	565.3 ^{+0.6} _{-0.6}	3.6 ^{+0.5} _{-0.5}	186 ⁺¹⁴ ₋₁₄	1391	32.36 ^{+0.41} _{-0.41}	114.95 ^{+1.65} _{-1.65}	1.23E+38	1.77E+36
1675	58727.911359247	565.3 ^{+0.6} _{-0.6}	3.5 ^{+0.2} _{-0.2}	190 ⁺¹⁷ ₋₁₇	1388	149.20 ^{+6.74} _{-6.74}	516.23 ^{+1.21} _{-1.21}	5.53E+38	1.30E+36
1676	58727.911583928	563.0 ^{+1.3} _{-1.3}	4.5 ^{+0.9} _{-0.9}	267 ⁺²⁵ ₋₂₅	1276	8.83 ^{+0.11} _{-0.11}	39.92 ^{+0.10} _{-0.10}	4.51E+37	1.14E+35
1677	58727.912119518	563.6 ^{+1.3} _{-1.3}	3.6 ^{+0.7} _{-0.7}	50 ⁺⁶² ₋₆₂	1361	9.25 ^{+0.12} _{-0.12}	33.09 ^{+0.09} _{-0.09}	3.74E+37	9.62E+34
1678	58727.912212635	563.3 ^{+1.2} _{-1.2}	2.6 ^{+0.4} _{-0.4}	61 ⁺²¹ ₋₂₁	1067	4.83 ^{+0.06} _{-0.06}	12.67 ^{+0.18} _{-0.18}	1.36E+37	1.93E+35
1679	58727.913290067	563.2 ^{+1.2} _{-1.2}	5.2 ^{+1.2} _{-1.2}	166 ⁺⁵⁸ ₋₅₈	1214	7.18 ^{+0.09} _{-0.09}	37.01 ^{+0.11} _{-0.11}	4.18E+37	1.21E+35
1680	58727.913959297	564.0 ^{+1.2} _{-1.2}	2.6 ^{+0.3} _{-0.3}	73 ⁺⁵⁴ ₋₅₄	1317	15.10 ^{+0.19} _{-0.19}	38.77 ^{+0.06} _{-0.06}	4.38E+37	7.10E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1681	58727.913960848	562.8 ^{+1.1} _{-1.1}	2.2 ^{+0.4} _{-0.4}	71 ⁺²⁸ ₋₂₈	1385	10.93 ^{+0.14} _{-0.14}	24.33 ^{+0.06} _{-0.06}	2.75E+37	6.50E+34
1682	58727.914534574	563.9 ^{+1.2} _{-1.2}	4.0 ^{+1.0} _{-1.0}	56 ⁺²³ ₋₂₃	1389	9.37 ^{+0.12} _{-0.12}	37.60 ^{+0.11} _{-0.11}	4.25E+37	1.27E+35
1683	58727.914689797	563.5 ^{+1.1} _{-1.1}	3.1 ^{+1.0} _{-1.0}	30 ⁺⁵ ₋₅	1366	6.80 ^{+0.08} _{-0.08}	21.17 ^{+0.09} _{-0.09}	2.39E+37	9.90E+34
1684	58727.915433229	564.6 ^{+0.8} _{-0.8}	4.9 ^{+0.9} _{-0.9}	244 ⁺³² ₋₃₂	1270	13.27 ^{+0.16} _{-0.16}	65.09 ^{+0.15} _{-0.15}	7.35E+37	1.75E+35
1685	58727.915937536	564.4 ^{+0.6} _{-0.6}	8.1 ^{+1.2} _{-1.2}	58 ⁺²² ₋₂₂	1055	4.80 ^{+0.06} _{-0.06}	39.00 ^{+0.54} _{-0.54}	4.18E+37	5.77E+35
1686	58727.916417075	563.7 ^{+0.0} _{-0.0}	2.8 ^{+0.0} _{-0.0}	398 ⁺¹⁰ ₋₁₀	1300	595.30 ^{+7.14} _{-7.14}	1672.79 ^{+0.29} _{-0.29}	1.79E+39	3.06E+35
1687	58727.916761772	563.8 ^{+1.4} _{-1.4}	1.7 ^{+0.3} _{-0.3}	78 ⁺²⁰ ₋₂₀	1317	12.42 ^{+0.16} _{-0.16}	21.65 ^{+0.05} _{-0.05}	2.45E+37	5.55E+34
1688	58727.916809506	562.9 ^{+1.2} _{-1.2}	2.9 ^{+0.6} _{-0.6}	56 ⁺⁷ ₋₇	1034	8.98 ^{+0.11} _{-0.11}	25.95 ^{+0.07} _{-0.07}	2.93E+37	7.97E+34
1689	58727.916842846	564.4 ^{+0.6} _{-0.6}	5.6 ^{+0.8} _{-0.8}	120 ⁺²⁸ ₋₂₈	1408	15.40 ^{+0.19} _{-0.19}	86.92 ^{+0.14} _{-0.14}	9.82E+37	1.60E+35
1690	58727.916850489	562.7 ^{+1.3} _{-1.3}	2.8 ^{+1.7} _{-1.7}	136 ⁺⁷ ₋₇	1363	4.81 ^{+0.06} _{-0.06}	13.54 ^{+0.10} _{-0.10}	1.53E+37	1.16E+35
1691	58727.916850810	562.9 ^{+1.3} _{-1.3}	8.4 ^{+1.1} _{-1.1}	225 ⁺⁴⁷ ₋₄₇	1228	10.65 ^{+0.13} _{-0.13}	89.83 ^{+0.14} _{-0.14}	1.02E+38	1.63E+35
1692	58727.917051238	561.9 ^{+1.1} _{-1.1}	6.6 ^{+1.6} _{-1.6}	52 ⁺¹² ₋₁₂	1377	6.30 ^{+0.08} _{-0.08}	41.35 ^{+0.12} _{-0.12}	4.67E+37	1.37E+35
1693	58727.917508777	563.5 ^{+0.9} _{-0.9}	1.9 ^{+0.8} _{-0.8}	50 ⁺⁴ ₋₄	1433	5.85 ^{+0.07} _{-0.07}	11.34 ^{+0.06} _{-0.06}	1.28E+37	6.51E+34
1694	58727.918929179	563.5 ^{+1.2} _{-1.2}	8.1 ^{+1.8} _{-1.8}	62 ⁺¹⁰ ₋₁₀	1165	8.90 ^{+0.11} _{-0.11}	71.87 ^{+0.19} _{-0.19}	8.12E+37	2.14E+35
1695	58727.918959463	563.0 ^{+1.3} _{-1.3}	4.0 ^{+0.8} _{-0.8}	95 ⁺⁷⁹ ₋₇₉	1190	7.77 ^{+0.09} _{-0.09}	30.85 ^{+0.08} _{-0.08}	3.49E+37	8.87E+34
1696	58727.919099135	563.3 ^{+1.4} _{-1.4}	4.3 ^{+0.6} _{-0.6}	182 ⁺⁸⁹ ₋₈₉	1319	10.60 ^{+0.13} _{-0.13}	45.78 ^{+0.08} _{-0.08}	5.17E+37	8.66E+34
1697	58727.919099890	562.7 ^{+1.0} _{-1.0}	5.0 ^{+1.1} _{-1.1}	92 ⁺⁶¹ ₋₆₁	1343	8.42 ^{+0.10} _{-0.10}	42.10 ^{+0.11} _{-0.11}	4.76E+37	1.29E+35
1698	58727.919155012	563.9 ^{+1.0} _{-1.0}	3.0 ^{+0.7} _{-0.7}	89 ⁺¹⁸ ₋₁₈	1411	9.18 ^{+0.11} _{-0.11}	27.31 ^{+0.07} _{-0.07}	3.09E+37	8.33E+34
1699	58727.919201610	566.2 ^{+0.4} _{-0.4}	3.7 ^{+0.2} _{-0.2}	188 ⁺¹² ₋₁₂	1404	40.58 ^{+0.48} _{-0.48}	150.40 ^{+0.08} _{-0.08}	1.70E+38	9.35E+34
1700	58727.919579229	565.4 ^{+0.3} _{-0.3}	3.1 ^{+0.4} _{-0.4}	141 ⁺¹⁶ ₋₁₆	1396	46.05 ^{+0.54} _{-0.54}	142.65 ^{+1.92} _{-1.92}	1.53E+38	2.06E+36
1701	58727.919579235	565.4 ^{+0.3} _{-0.3}	3.2 ^{+0.1} _{-0.1}	351 ⁺⁷ ₋₇	1307	178.59 ^{+6.64} _{-6.64}	562.56 ^{+0.93} _{-0.93}	6.02E+38	9.95E+35
1702	58727.920043830	563.0 ^{+0.9} _{-0.9}	4.1 ^{+1.1} _{-1.1}	71 ⁺⁴⁵ ₋₄₅	1305	7.69 ^{+0.09} _{-0.09}	31.85 ^{+0.10} _{-0.10}	3.60E+37	1.15E+35
1703	58727.920202481	562.3 ^{+1.2} _{-1.2}	5.8 ^{+0.8} _{-0.8}	113 ⁺¹⁹ ₋₁₉	1391	12.51 ^{+0.15} _{-0.15}	72.96 ^{+0.12} _{-0.12}	8.24E+37	1.31E+35
1704	58727.921082705	563.0 ^{+1.3} _{-1.3}	6.9 ^{+1.5} _{-1.5}	168 ⁺³⁴ ₋₃₄	1277	9.22 ^{+0.11} _{-0.11}	63.78 ^{+0.16} _{-0.16}	7.21E+37	1.81E+35
1705	58727.921752879	563.5 ^{+1.2} _{-1.2}	3.3 ^{+0.5} _{-0.5}	53 ⁺⁴¹ ₋₄₁	1394	9.12 ^{+0.11} _{-0.11}	30.50 ^{+0.41} _{-0.41}	3.27E+37	4.34E+35
1706	58727.921806816	563.3 ^{+1.2} _{-1.2}	4.3 ^{+1.3} _{-1.3}	49 ⁺⁴⁷ ₋₄₇	1104	7.19 ^{+0.08} _{-0.08}	30.73 ^{+0.11} _{-0.11}	3.47E+37	1.19E+35
1707	58727.922163846	563.3 ^{+1.3} _{-1.3}	7.3 ^{+1.1} _{-1.1}	73 ⁺³² ₋₃₂	1402	11.14 ^{+0.13} _{-0.13}	81.49 ^{+1.08} _{-1.08}	8.72E+37	1.16E+36
1708	58727.922459256	563.9 ^{+0.9} _{-0.9}	3.8 ^{+0.6} _{-0.6}	199 ⁺⁷ ₋₇	1104	36.88 ^{+0.43} _{-0.43}	141.15 ^{+1.87} _{-1.87}	1.51E+38	2.00E+36
1709	58727.922843032	562.9 ^{+1.3} _{-1.3}	3.5 ^{+0.6} _{-0.6}	137 ⁺⁷⁷ ₋₇₇	1320	10.44 ^{+0.12} _{-0.12}	36.74 ^{+0.07} _{-0.07}	4.15E+37	8.40E+34
1710	58727.923112512	563.5 ^{+1.0} _{-1.0}	4.8 ^{+0.7} _{-0.7}	135 ⁺⁴⁵ ₋₄₅	1368	14.87 ^{+0.17} _{-0.17}	72.02 ^{+0.95} _{-0.95}	7.71E+37	1.01E+36
1711	58727.923112532	563.5 ^{+1.0} _{-1.0}	7.4 ^{+0.6} _{-0.6}	319 ⁺³³ ₋₃₃	1313	61.72 ^{+4.44} _{-4.44}	457.96 ^{+2.84} _{-2.84}	4.90E+38	3.04E+36
1712	58727.923707157	561.9 ^{+1.1} _{-1.1}	2.4 ^{+0.4} _{-0.4}	140 ⁺⁴ ₋₄	1334	11.42 ^{+0.13} _{-0.13}	27.56 ^{+0.05} _{-0.05}	3.11E+37	6.07E+34
1713	58727.9243350990	564.1 ^{+0.3} _{-0.3}	4.0 ^{+0.6} _{-0.6}	118 ⁺¹³⁶ ₋₁₃₆	1149	17.38 ^{+0.20} _{-0.20}	70.26 ^{+0.92} _{-0.92}	7.52E+37	9.80E+35
1714	58727.924351103	564.0 ^{+0.2} _{-0.2}	3.9 ^{+0.7} _{-0.7}	89 ⁺²⁰ ₋₂₀	1219	10.33 ^{+0.12} _{-0.12}	40.12 ^{+0.08} _{-0.08}	4.53E+37	9.41E+34
1715	58727.924595780	563.2 ^{+0.6} _{-0.6}	7.7 ^{+1.8} _{-1.8}	111 ⁺²⁶ ₋₂₆	1409	11.01 ^{+0.13} _{-0.13}	84.62 ^{+0.23} _{-0.23}	9.56E+37	2.57E+35
1716	58727.924658913	564.0 ^{+0.8} _{-0.8}	3.0 ^{+0.4} _{-0.4}	100 ⁺⁶ ₋₆	1162	20.59 ^{+0.23} _{-0.23}	62.57 ^{+0.81} _{-0.81}	6.70E+37	8.71E+35
1717	58727.924658929	564.0 ^{+0.8} _{-0.8}	3.3 ^{+0.4} _{-0.4}	120 ⁺¹⁵ ₋₁₅	1194	65.66 ^{+6.51} _{-6.51}	215.36 ^{+2.47} _{-2.47}	2.31E+38	2.65E+36
1718	58727.924846278	564.3 ^{+1.0} _{-1.0}	2.3 ^{+0.4} _{-0.4}	93 ⁺¹⁹ ₋₁₉	1315	9.10 ^{+0.10} _{-0.10}	21.03 ^{+0.05} _{-0.05}	2.38E+37	5.18E+34
1719	58727.925367188	563.8 ^{+0.8} _{-0.8}	5.0 ^{+0.8} _{-0.8}	79 ⁺³⁶ ₋₃₆	1315	11.26 ^{+0.13} _{-0.13}	55.80 ^{+0.10} _{-0.10}	6.31E+37	1.10E+35
1720	58727.925607653	564.1 ^{+0.1} _{-0.1}	5.9 ^{+0.1} _{-0.1}	456 ⁺²² ₋₂₂	1272	77.76 ^{+0.88} _{-0.88}	456.04 ^{+0.11} _{-0.11}	5.15E+38	1.19E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1721	58727.926635803	563.5 ^{+0.7} _{-0.7}	4.0 ^{+0.6} _{-0.6}	106 ⁺⁴ ₋₄	1097	7.46 ^{+0.08} _{-0.08}	29.84 ^{+0.38} _{-0.38}	3.19E+37	4.11E+35
1722	58727.926771753	562.7 ^{+1.2} _{-1.2}	2.5 ^{+0.9} _{-0.9}	57 ⁺⁴ ₋₄	1418	6.50 ^{+0.07} _{-0.07}	16.23 ^{+0.06} _{-0.06}	1.83E+37	7.18E+34
1723	58727.926829564	563.9 ^{+1.1} _{-1.1}	3.4 ^{+0.7} _{-0.7}	79 ⁺⁶ ₋₆	1326	10.13 ^{+0.11} _{-0.11}	34.70 ^{+0.08} _{-0.08}	3.92E+37	9.58E+34
1724	58727.927087809	563.0 ^{+1.0} _{-1.0}	10.8 ^{+3.4} _{-3.4}	290 ⁺⁴⁰ ₋₄₀	1283	4.01 ^{+0.04} _{-0.04}	43.54 ^{+0.16} _{-0.16}	4.92E+37	1.75E+35
1725	58727.927369218	563.6 ^{+1.4} _{-1.4}	3.1 ^{+0.7} _{-0.7}	100 ⁺²⁸ ₋₂₈	1407	8.96 ^{+0.10} _{-0.10}	28.09 ^{+0.07} _{-0.07}	3.17E+37	7.38E+34
1726	58727.927472365	563.1 ^{+1.2} _{-1.2}	1.9 ^{+1.0} _{-1.0}	118 ⁺¹² ₋₁₂	1386	5.03 ^{+0.06} _{-0.06}	9.49 ^{+0.05} _{-0.05}	1.07E+37	6.21E+34
1727	58727.927575302	564.1 ^{+1.1} _{-1.1}	3.5 ^{+0.6} _{-0.6}	133 ⁺⁸ ₋₈	1335	7.06 ^{+0.08} _{-0.08}	24.80 ^{+0.05} _{-0.05}	2.80E+37	5.55E+34
1728	58727.927882027	563.1 ^{+1.2} _{-1.2}	4.4 ^{+0.6} _{-0.6}	132 ⁺¹² ₋₁₂	1417	12.45 ^{+0.14} _{-0.14}	54.62 ^{+0.09} _{-0.09}	6.17E+37	9.85E+34
1729	58727.928287991	563.6 ^{+1.3} _{-1.3}	4.6 ^{+1.1} _{-1.1}	270 ⁺⁹⁴ ₋₉₄	1279	8.65 ^{+0.10} _{-0.10}	39.84 ^{+0.10} _{-0.10}	4.50E+37	1.18E+35
1730	58727.928397265	562.8 ^{+0.8} _{-0.8}	2.8 ^{+1.0} _{-1.0}	248 ⁺³ ₋₃	1199	6.00 ^{+0.07} _{-0.07}	16.78 ^{+0.06} _{-0.06}	1.90E+37	7.11E+34
1731	58727.928475958	563.7 ^{+1.0} _{-1.0}	3.7 ^{+1.4} _{-1.4}	48 ⁺⁴ ₋₄	1414	4.54 ^{+0.05} _{-0.05}	17.01 ^{+0.07} _{-0.07}	1.92E+37	7.91E+34
1732	58727.928745959	562.9 ^{+1.2} _{-1.2}	1.6 ^{+0.4} _{-0.4}	137 ⁺⁷⁰ ₋₇₀	1252	6.35 ^{+0.07} _{-0.07}	10.29 ^{+0.03} _{-0.03}	1.16E+37	3.36E+34
1733	58727.928994131	565.2 ^{+0.8} _{-0.8}	2.4 ^{+0.3} _{-0.3}	85 ⁺⁵² ₋₅₂	1347	13.72 ^{+0.15} _{-0.15}	33.35 ^{+0.05} _{-0.05}	3.77E+37	5.83E+34
1734	58727.928994411	563.3 ^{+1.0} _{-1.0}	4.2 ^{+0.4} _{-0.4}	187 ⁺³⁰ ₋₃₀	1385	16.51 ^{+0.18} _{-0.18}	69.19 ^{+0.07} _{-0.07}	7.82E+37	8.03E+34
1735	58727.929222161	563.2 ^{+0.4} _{-0.4}	3.8 ^{+0.3} _{-0.3}	384 ⁺¹⁶ ₋₁₆	1207	92.52 ^{+5.52} _{-5.52}	349.73 ^{+1.44} _{-1.44}	3.74E+38	1.54E+36
1736	58727.929936103	563.1 ^{+1.4} _{-1.4}	4.5 ^{+1.3} _{-1.3}	178 ⁺³⁸ ₋₃₈	1305	7.18 ^{+0.08} _{-0.08}	32.08 ^{+0.10} _{-0.10}	3.63E+37	1.17E+35
1737	58727.931075949	564.5 ^{+0.5} _{-0.5}	3.4 ^{+0.5} _{-0.5}	45 ⁺¹⁵ ₋₁₅	1325	9.25 ^{+0.10} _{-0.10}	31.21 ^{+0.06} _{-0.06}	3.53E+37	6.25E+34
1738	58727.931908620	565.1 ^{+0.6} _{-0.6}	3.8 ^{+1.0} _{-1.0}	91 ⁺⁴ ₋₄	1395	6.94 ^{+0.07} _{-0.07}	26.08 ^{+0.08} _{-0.08}	2.95E+37	8.68E+34
1739	58727.931948207	563.0 ^{+1.3} _{-1.3}	3.4 ^{+0.8} _{-0.8}	60 ⁺¹² ₋₁₂	1164	8.30 ^{+0.09} _{-0.09}	27.93 ^{+0.07} _{-0.07}	3.16E+37	7.77E+34
1740	58727.932113206	563.1 ^{+1.3} _{-1.3}	1.4 ^{+0.4} _{-0.4}	255 ⁺⁶ ₋₆	1258	6.70 ^{+0.07} _{-0.07}	9.28 ^{+0.03} _{-0.03}	1.05E+37	3.05E+34
1741	58727.932113554	563.1 ^{+1.1} _{-1.1}	2.3 ^{+0.8} _{-0.8}	145 ⁺⁸ ₋₈	1369	7.29 ^{+0.08} _{-0.08}	16.79 ^{+0.07} _{-0.07}	1.90E+37	7.47E+34
1742	58727.932539521	562.9 ^{+1.3} _{-1.3}	2.2 ^{+0.4} _{-0.4}	110 ⁺⁴⁰ ₋₄₀	1377	8.97 ^{+0.10} _{-0.10}	19.67 ^{+0.03} _{-0.03}	2.22E+37	3.89E+34
1743	58727.932643229	562.9 ^{+1.3} _{-1.3}	2.9 ^{+0.8} _{-0.8}	70 ⁺⁴ ₋₄	1365	7.04 ^{+0.08} _{-0.08}	20.59 ^{+0.06} _{-0.06}	2.33E+37	6.96E+34
1744	58727.932977360	562.5 ^{+1.3} _{-1.3}	6.2 ^{+1.8} _{-1.8}	58 ⁺²⁶ ₋₂₆	1188	7.07 ^{+0.08} _{-0.08}	43.68 ^{+0.14} _{-0.14}	4.94E+37	1.55E+35
1745	58727.933189589	563.3 ^{+1.3} _{-1.3}	3.1 ^{+0.7} _{-0.7}	206 ⁺⁶ ₋₆	1157	8.59 ^{+0.09} _{-0.09}	26.36 ^{+0.06} _{-0.06}	2.98E+37	6.81E+34
1746	58727.933438095	564.2 ^{+0.9} _{-0.9}	2.6 ^{+0.4} _{-0.4}	84 ⁺³⁹ ₋₃₉	1412	13.43 ^{+0.14} _{-0.14}	35.26 ^{+0.05} _{-0.05}	3.98E+37	5.83E+34
1747	58727.933466116	563.0 ^{+1.2} _{-1.2}	2.7 ^{+0.7} _{-0.7}	59 ⁺⁸ ₋₈	1370	6.68 ^{+0.07} _{-0.07}	17.71 ^{+0.05} _{-0.05}	2.00E+37	5.86E+34
1748	58727.934315596	563.5 ^{+1.1} _{-1.1}	4.6 ^{+0.7} _{-0.7}	90 ⁺²⁵ ₋₂₅	1399	9.30 ^{+0.10} _{-0.10}	43.15 ^{+0.07} _{-0.07}	4.88E+37	7.85E+34
1749	58727.934542259	564.1 ^{+0.9} _{-0.9}	1.4 ^{+0.3} _{-0.3}	53 ⁺¹⁷ ₋₁₇	1372	9.22 ^{+0.10} _{-0.10}	13.01 ^{+0.03} _{-0.03}	1.47E+37	3.60E+34
1750	58727.935181134	563.1 ^{+1.0} _{-1.0}	3.6 ^{+0.7} _{-0.7}	134 ⁺³⁷ ₋₃₇	1394	10.01 ^{+0.10} _{-0.10}	36.24 ^{+0.07} _{-0.07}	4.09E+37	7.81E+34
1751	58727.935213447	563.0 ^{+1.2} _{-1.2}	4.6 ^{+1.0} _{-1.0}	68 ⁺²⁵ ₋₂₅	1370	8.38 ^{+0.09} _{-0.09}	38.26 ^{+0.09} _{-0.09}	4.32E+37	1.00E+35
1752	58727.935462359	562.6 ^{+1.0} _{-1.0}	3.9 ^{+0.8} _{-0.8}	110 ⁺⁴⁷ ₋₄₇	1325	8.76 ^{+0.09} _{-0.09}	34.09 ^{+0.08} _{-0.08}	3.85E+37	8.66E+34
1753	58727.936020409	563.4 ^{+1.4} _{-1.4}	5.7 ^{+1.7} _{-1.7}	63 ⁺⁴ ₋₄	1409	6.23 ^{+0.07} _{-0.07}	35.57 ^{+0.11} _{-0.11}	4.02E+37	1.30E+35
1754	58727.936176114	563.1 ^{+1.4} _{-1.4}	4.9 ^{+2.0} _{-2.0}	166 ⁺⁶ ₋₆	1280	4.59 ^{+0.05} _{-0.05}	22.40 ^{+0.09} _{-0.09}	2.53E+37	1.07E+35
1755	58727.936271474	563.7 ^{+1.1} _{-1.1}	3.2 ^{+0.7} _{-0.7}	59 ⁺³ ₋₃	1330	9.44 ^{+0.10} _{-0.10}	30.58 ^{+0.07} _{-0.07}	3.46E+37	8.14E+34
1756	58727.936505336	563.6 ^{+1.2} _{-1.2}	7.0 ^{+2.2} _{-2.2}	75 ⁺¹³ ₋₁₃	1449	5.38 ^{+0.06} _{-0.06}	37.91 ^{+0.12} _{-0.12}	4.28E+37	1.38E+35
1757	58727.936703732	562.9 ^{+0.3} _{-0.3}	2.5 ^{+0.5} _{-0.5}	46 ⁺²⁹ ₋₂₉	1177	11.42 ^{+0.12} _{-0.12}	28.34 ^{+0.06} _{-0.06}	3.20E+37	6.77E+34
1758	58727.937023483	563.1 ^{+1.2} _{-1.2}	5.4 ^{+2.4} _{-2.4}	88 ⁺⁴ ₋₄	1089	6.44 ^{+0.07} _{-0.07}	35.07 ^{+0.16} _{-0.16}	3.96E+37	1.80E+35
1759	58727.937736170	562.5 ^{+0.9} _{-0.9}	3.2 ^{+0.7} _{-0.7}	91 ⁺⁴⁰ ₋₄₀	1281	9.07 ^{+0.09} _{-0.09}	28.74 ^{+0.07} _{-0.07}	3.25E+37	7.82E+34
1760	58727.938133789	562.9 ^{+1.3} _{-1.3}	4.5 ^{+1.8} _{-1.8}	49 ⁺²¹ ₋₂₁	1372	6.70 ^{+0.07} _{-0.07}	30.27 ^{+0.13} _{-0.13}	3.42E+37	1.41E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1761	58727.938861698	562.8 ^{+0.6} _{-0.6}	4.5 ^{+0.7} _{-0.7}	215 ⁺²¹ ₋₂₁	1119	12.28 ^{+0.12} _{-0.12}	55.88 ^{+0.65} _{-0.65}	5.98E+37	6.97E+35
1762	58727.939377462	563.8 ^{+1.2} _{-1.2}	5.8 ^{+2.3} _{-2.3}	169 ⁺¹⁰ ₋₁₀	1324	6.34 ^{+0.07} _{-0.07}	36.82 ^{+0.15} _{-0.15}	4.16E+37	1.68E+35
1763	58727.939396459	563.3 ^{+1.0} _{-1.0}	6.5 ^{+2.3} _{-2.3}	86 ⁺⁵ ₋₅	1180	5.42 ^{+0.06} _{-0.06}	35.03 ^{+0.13} _{-0.13}	3.96E+37	1.44E+35
1764	58727.939467238	563.4 ^{+1.2} _{-1.2}	3.6 ^{+1.2} _{-1.2}	181 ⁺⁸ ₋₈	1314	6.16 ^{+0.06} _{-0.06}	22.29 ^{+0.07} _{-0.07}	2.52E+37	8.24E+34
1765	58727.940101552	563.0 ^{+1.1} _{-1.1}	3.4 ^{+1.1} _{-1.1}	111 ⁺¹⁰³ ₋₁₀₃	1193	9.69 ^{+0.10} _{-0.10}	33.37 ^{+0.11} _{-0.11}	3.77E+37	1.20E+35
1766	58727.940268471	562.4 ^{+1.2} _{-1.2}	4.8 ^{+1.0} _{-1.0}	87 ⁺⁴¹ ₋₄₁	1157	9.33 ^{+0.09} _{-0.09}	44.63 ^{+0.09} _{-0.09}	5.04E+37	1.04E+35
1767	58727.940949060	564.0 ^{+1.2} _{-1.2}	9.1 ^{+3.0} _{-3.0}	89 ⁺²² ₋₂₂	1369	8.64 ^{+0.09} _{-0.09}	78.27 ^{+0.26} _{-0.26}	8.84E+37	2.99E+35
1768	58727.941043304	566.0 ^{+0.5} _{-0.5}	3.7 ^{+0.5} _{-0.5}	164 ⁺¹⁵ ₋₁₅	1386	25.45 ^{+0.25} _{-0.25}	94.18 ^{+1.08} _{-1.08}	1.01E+38	1.15E+36
1769	58727.941043321	566.0 ^{+0.5} _{-0.5}	4.4 ^{+0.2} _{-0.2}	112 ⁺³⁰ ₋₃₀	1260	100.11 ^{+4.88} _{-4.88}	436.48 ^{+1.22} _{-1.22}	4.67E+38	1.31E+36
1770	58727.942091894	563.0 ^{+1.3} _{-1.3}	4.2 ^{+1.1} _{-1.1}	65 ⁺⁵³ ₋₅₃	1331	9.81 ^{+0.10} _{-0.10}	40.69 ^{+0.10} _{-0.10}	4.60E+37	1.16E+35
1771	58727.942480162	563.2 ^{+1.2} _{-1.2}	3.5 ^{+1.6} _{-1.6}	134 ⁺⁸⁰ ₋₈₀	1342	6.57 ^{+0.07} _{-0.07}	23.01 ^{+0.11} _{-0.11}	2.60E+37	1.19E+35
1772	58727.942609093	563.1 ^{+1.2} _{-1.2}	3.1 ^{+1.0} _{-1.0}	100 ⁺⁶ ₋₆	1395	7.69 ^{+0.08} _{-0.08}	23.98 ^{+0.08} _{-0.08}	2.71E+37	8.63E+34
1773	58727.942942096	563.3 ^{+1.2} _{-1.2}	5.2 ^{+1.2} _{-1.2}	115 ⁺⁵⁴ ₋₅₄	1287	8.99 ^{+0.09} _{-0.09}	46.32 ^{+0.10} _{-0.10}	5.23E+37	1.18E+35
1774	58727.943847523	563.2 ^{+1.2} _{-1.2}	2.2 ^{+0.5} _{-0.5}	224 ⁺³⁷ ₋₃₇	1311	8.89 ^{+0.09} _{-0.09}	19.58 ^{+0.05} _{-0.05}	2.21E+37	5.13E+34
1775	58727.943847721	561.8 ^{+0.9} _{-0.9}	2.0 ^{+0.5} _{-0.5}	80 ⁺⁷ ₋₇	1153	6.30 ^{+0.06} _{-0.06}	12.35 ^{+0.03} _{-0.03}	1.39E+37	3.63E+34
1776	58727.944269692	563.4 ^{+1.2} _{-1.2}	2.6 ^{+1.2} _{-1.2}	101 ⁺⁴ ₋₄	1376	5.87 ^{+0.06} _{-0.06}	15.22 ^{+0.07} _{-0.07}	1.72E+37	7.56E+34
1777	58727.945150162	563.1 ^{+1.3} _{-1.3}	4.5 ^{+2.3} _{-2.3}	176 ⁺¹²⁶ ₋₁₂₆	1282	5.07 ^{+0.05} _{-0.05}	22.59 ^{+0.11} _{-0.11}	2.55E+37	1.25E+35
1778	58727.945494339	561.9 ^{+1.2} _{-1.2}	5.6 ^{+2.3} _{-2.3}	117 ⁺³ ₋₃	1363	6.70 ^{+0.06} _{-0.06}	37.62 ^{+0.15} _{-0.15}	4.25E+37	1.69E+35
1779	58727.945574926	564.0 ^{+0.8} _{-0.8}	2.9 ^{+0.9} _{-0.9}	67 ⁺⁴ ₋₄	1421	9.39 ^{+0.09} _{-0.09}	27.54 ^{+0.08} _{-0.08}	3.11E+37	9.02E+34
1780	58727.946396957	564.3 ^{+0.8} _{-0.8}	4.8 ^{+2.2} _{-2.2}	141 ⁺³¹ ₋₃₁	1114	6.86 ^{+0.07} _{-0.07}	32.93 ^{+0.14} _{-0.14}	3.72E+37	1.61E+35
1781	58727.946596299	563.7 ^{+1.2} _{-1.2}	9.0 ^{+1.3} _{-1.3}	100 ⁺⁵⁷ ₋₅₇	1345	7.82 ^{+0.07} _{-0.07}	70.01 ^{+0.77} _{-0.77}	7.49E+37	8.22E+35
1782	58727.947204637	562.4 ^{+1.3} _{-1.3}	2.6 ^{+1.9} _{-1.9}	76 ⁺⁵ ₋₅	1101	3.88 ^{+0.04} _{-0.04}	9.95 ^{+0.07} _{-0.07}	1.12E+37	7.96E+34
1783	58727.947693513	563.4 ^{+0.4} _{-0.4}	5.1 ^{+1.9} _{-1.9}	48 ⁺³ ₋₃	1406	8.37 ^{+0.08} _{-0.08}	42.62 ^{+0.15} _{-0.15}	4.82E+37	1.69E+35
1784	58727.948580417	563.6 ^{+1.2} _{-1.2}	5.6 ^{+1.1} _{-1.1}	135 ⁺³⁶ ₋₃₆	1231	10.42 ^{+0.10} _{-0.10}	58.11 ^{+0.10} _{-0.10}	6.57E+37	1.17E+35
1785	58727.948675931	564.3 ^{+0.1} _{-0.1}	2.7 ^{+0.4} _{-0.4}	374 ⁺⁶ ₋₆	1312	226.47 ^{+2.12} _{-2.12}	618.50 ^{+6.63} _{-6.63}	6.62E+38	7.10E+36
1786	58727.948910186	564.5 ^{+0.7} _{-0.7}	3.7 ^{+0.8} _{-0.8}	115 ⁺⁹⁶ ₋₉₆	1258	11.95 ^{+0.11} _{-0.11}	44.80 ^{+0.09} _{-0.09}	5.06E+37	9.67E+34
1787	58727.949114325	563.2 ^{+1.2} _{-1.2}	5.3 ^{+1.3} _{-1.3}	171 ⁺¹¹ ₋₁₁	1299	9.88 ^{+0.09} _{-0.09}	52.09 ^{+0.12} _{-0.12}	5.89E+37	1.35E+35
1788	58727.949568275	563.6 ^{+1.2} _{-1.2}	9.0 ^{+3.7} _{-3.7}	59 ⁺³ ₋₃	1408	4.63 ^{+0.04} _{-0.04}	41.59 ^{+0.16} _{-0.16}	4.70E+37	1.80E+35
1789	58727.949727370	564.9 ^{+0.7} _{-0.7}	3.1 ^{+0.6} _{-0.6}	122 ⁺⁶⁶ ₋₆₆	1352	13.80 ^{+0.13} _{-0.13}	42.22 ^{+0.07} _{-0.07}	4.77E+37	8.10E+34
1790	58727.950111788	563.9 ^{+1.1} _{-1.1}	6.5 ^{+1.3} _{-1.3}	61 ⁺³⁹ ₋₃₉	1283	8.34 ^{+0.08} _{-0.08}	54.12 ^{+0.10} _{-0.10}	6.12E+37	1.11E+35
1791	58727.950269931	562.8 ^{+0.5} _{-0.5}	3.1 ^{+0.6} _{-0.6}	197 ⁺³ ₋₃	1286	12.80 ^{+0.12} _{-0.12}	40.27 ^{+0.07} _{-0.07}	4.55E+37	7.76E+34
1792	58727.950562540	565.2 ^{+0.5} _{-0.5}	5.3 ^{+0.8} _{-0.8}	139 ⁺³⁸ ₋₃₈	1125	18.05 ^{+0.17} _{-0.17}	95.74 ^{+1.01} _{-1.01}	1.02E+38	1.08E+36
1793	58727.950562665	564.1 ^{+0.7} _{-0.7}	4.6 ^{+0.6} _{-0.6}	144 ⁺⁴⁹ ₋₄₉	1120	15.02 ^{+0.14} _{-0.14}	69.39 ^{+0.09} _{-0.09}	7.84E+37	9.63E+34
1794	58727.951056496	563.4 ^{+0.8} _{-0.8}	3.1 ^{+0.4} _{-0.4}	132 ⁺²⁶ ₋₂₆	1420	17.19 ^{+0.16} _{-0.16}	52.44 ^{+0.55} _{-0.55}	5.61E+37	5.90E+35
1795	58727.951435105	563.3 ^{+1.3} _{-1.3}	4.1 ^{+1.3} _{-1.3}	95 ⁺⁹⁰ ₋₉₀	1330	6.94 ^{+0.06} _{-0.06}	28.71 ^{+0.08} _{-0.08}	3.24E+37	9.28E+34
1796	58727.951437702	563.3 ^{+1.4} _{-1.4}	6.4 ^{+1.5} _{-1.5}	130 ⁺⁴⁷ ₋₄₇	1312	8.21 ^{+0.08} _{-0.08}	52.28 ^{+0.11} _{-0.11}	5.91E+37	1.25E+35
1797	58727.951595202	563.4 ^{+1.1} _{-1.1}	6.8 ^{+1.8} _{-1.8}	160 ⁺⁷⁷ ₋₇₇	1194	6.21 ^{+0.06} _{-0.06}	42.16 ^{+0.10} _{-0.10}	4.76E+37	1.16E+35
1798	58727.951954010	563.4 ^{+1.0} _{-1.0}	2.4 ^{+0.5} _{-0.5}	317 ⁺⁴⁰ ₋₄₀	1224	6.76 ^{+0.06} _{-0.06}	16.27 ^{+0.03} _{-0.03}	1.84E+37	3.70E+34
1799	58727.951954140	563.3 ^{+0.8} _{-0.8}	2.3 ^{+0.4} _{-0.4}	69 ⁺²³ ₋₂₃	1354	9.30 ^{+0.09} _{-0.09}	20.95 ^{+0.04} _{-0.04}	2.37E+37	4.31E+34
1800	58727.952178871	562.9 ^{+1.3} _{-1.3}	7.6 ^{+3.3} _{-3.3}	109 ⁺³⁵ ₋₃₅	1376	5.36 ^{+0.05} _{-0.05}	40.93 ^{+0.16} _{-0.16}	4.62E+37	1.82E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1801	58727.952458372	563.6 ^{+1.4} _{-1.4}	4.3 ^{+1.1} _{-1.1}	81 ⁺⁴⁹ ₋₄₉	1295	9.82 ^{+0.09} _{-0.09}	41.98 ^{+0.10} _{-0.10}	4.74E+37	1.14E+35
1802	58727.953301571	562.7 ^{+1.2} _{-1.2}	3.3 ^{+0.7} _{-0.7}	102 ⁺⁶¹ ₋₆₁	1118	9.57 ^{+0.09} _{-0.09}	31.88 ^{+0.06} _{-0.06}	3.60E+37	6.95E+34
1803	58727.954015339	563.2 ^{+1.4} _{-1.4}	6.6 ^{+2.5} _{-2.5}	50 ⁺⁵ ₋₅	1432	4.93 ^{+0.04} _{-0.04}	32.70 ^{+0.11} _{-0.11}	3.70E+37	1.24E+35
1804	58727.954441675	563.2 ^{+1.4} _{-1.4}	3.1 ^{+0.5} _{-0.5}	69 ⁺³⁹ ₋₃₉	1077	7.22 ^{+0.06} _{-0.06}	22.72 ^{+0.23} _{-0.23}	2.43E+37	2.47E+35
1805	58727.954622803	563.4 ^{+0.8} _{-0.8}	3.2 ^{+0.9} _{-0.9}	67 ⁺⁶ ₋₆	1398	5.69 ^{+0.05} _{-0.05}	17.99 ^{+0.05} _{-0.05}	2.03E+37	5.33E+34
1806	58727.955007116	563.7 ^{+1.2} _{-1.2}	3.9 ^{+0.9} _{-0.9}	148 ⁺⁴⁴ ₋₄₄	1293	6.70 ^{+0.06} _{-0.06}	25.92 ^{+0.05} _{-0.05}	2.93E+37	6.10E+34
1807	58727.955269088	563.0 ^{+0.8} _{-0.8}	5.0 ^{+0.9} _{-0.9}	65 ⁺²⁴ ₋₂₄	1372	12.40 ^{+0.11} _{-0.11}	62.40 ^{+0.10} _{-0.10}	7.05E+37	1.18E+35
1808	58727.955343219	562.4 ^{+0.7} _{-0.7}	5.5 ^{+1.5} _{-1.5}	62 ⁺⁴ ₋₄	1342	8.13 ^{+0.07} _{-0.07}	44.71 ^{+0.11} _{-0.11}	5.05E+37	1.25E+35
1809	58727.955717549	562.6 ^{+1.1} _{-1.1}	3.8 ^{+1.0} _{-1.0}	157 ⁺¹²⁸ ₋₁₂₈	1342	8.39 ^{+0.07} _{-0.07}	31.96 ^{+0.08} _{-0.08}	3.61E+37	8.79E+34
1810	58727.955942301	562.8 ^{+1.4} _{-1.4}	3.1 ^{+1.0} _{-1.0}	104 ⁺⁵ ₋₅	1134	5.89 ^{+0.05} _{-0.05}	18.03 ^{+0.05} _{-0.05}	2.04E+37	6.12E+34
1811	58727.955960264	563.0 ^{+1.2} _{-1.2}	1.9 ^{+0.3} _{-0.3}	155 ⁺⁷ ₋₇	1172	12.46 ^{+0.11} _{-0.11}	23.62 ^{+0.03} _{-0.03}	2.67E+37	3.47E+34
1812	58727.956845789	562.6 ^{+1.3} _{-1.3}	2.6 ^{+0.5} _{-0.5}	102 ⁺³⁶ ₋₃₆	1299	7.03 ^{+0.06} _{-0.06}	18.52 ^{+0.03} _{-0.03}	2.09E+37	3.47E+34
1813	58727.956907968	564.6 ^{+0.8} _{-0.8}	3.4 ^{+0.7} _{-0.7}	62 ⁺⁴⁵ ₋₄₅	1161	11.43 ^{+0.10} _{-0.10}	38.46 ^{+0.07} _{-0.07}	4.35E+37	7.53E+34
1814	58727.957011161	563.0 ^{+1.4} _{-1.4}	3.1 ^{+0.9} _{-0.9}	51 ⁺¹⁹ ₋₁₉	1092	7.41 ^{+0.07} _{-0.07}	22.67 ^{+0.06} _{-0.06}	2.56E+37	6.39E+34
1815	58727.957033345	563.0 ^{+0.2} _{-0.2}	2.8 ^{+0.2} _{-0.2}	264 ⁺²⁶ ₋₂₆	1352	25.70 ^{+0.23} _{-0.23}	71.88 ^{+0.05} _{-0.05}	8.12E+37	5.82E+34
1816	58727.957112717	563.8 ^{+1.0} _{-1.0}	1.4 ^{+0.3} _{-0.3}	96 ⁺⁴² ₋₄₂	1298	9.53 ^{+0.08} _{-0.08}	13.04 ^{+0.03} _{-0.03}	1.47E+37	2.95E+34
1817	58727.957329414	563.6 ^{+1.2} _{-1.2}	4.2 ^{+1.1} _{-1.1}	200 ⁺¹¹³ ₋₁₁₃	1207	6.82 ^{+0.06} _{-0.06}	28.50 ^{+0.06} _{-0.06}	3.22E+37	7.29E+34
1818	58727.957771961	563.3 ^{+0.0} _{-0.0}	3.9 ^{+0.0} _{-0.0}	497 ⁺¹ ₋₁	1251	409.99 ^{+3.56} _{-3.56}	1610.03 ^{+0.07} _{-0.07}	1.82E+39	7.65E+34
1819	58727.958701732	563.6 ^{+1.1} _{-1.1}	4.0 ^{+1.3} _{-1.3}	369 ⁺⁹⁴ ₋₉₄	1256	7.14 ^{+0.06} _{-0.06}	28.64 ^{+0.08} _{-0.08}	3.24E+37	9.32E+34
1820	58727.958975939	563.1 ^{+1.3} _{-1.3}	2.3 ^{+0.5} _{-0.5}	83 ⁺⁵³ ₋₅₃	1377	10.73 ^{+0.09} _{-0.09}	24.27 ^{+0.05} _{-0.05}	2.74E+37	5.14E+34
1821	58727.958976179	562.5 ^{+0.9} _{-0.9}	3.0 ^{+1.2} _{-1.2}	211 ⁺⁶ ₋₆	1253	5.66 ^{+0.05} _{-0.05}	17.21 ^{+0.06} _{-0.06}	1.94E+37	6.48E+34
1822	58727.959240487	565.0 ^{+0.8} _{-0.8}	3.9 ^{+0.4} _{-0.4}	257 ⁺⁶³ ₋₆₃	1242	11.03 ^{+0.10} _{-0.10}	43.42 ^{+0.04} _{-0.04}	4.91E+37	4.78E+34
1823	58727.959240563	564.9 ^{+0.7} _{-0.7}	3.1 ^{+0.2} _{-0.2}	298 ⁺³⁰ ₋₃₀	1350	32.22 ^{+0.28} _{-0.28}	99.96 ^{+0.05} _{-0.05}	1.13E+38	5.74E+34
1824	58727.959289355	562.5 ^{+1.0} _{-1.0}	6.0 ^{+2.0} _{-2.0}	80 ⁺⁴⁷ ₋₄₇	1365	6.80 ^{+0.06} _{-0.06}	40.86 ^{+0.11} _{-0.11}	4.62E+37	1.30E+35
1825	58727.959392659	563.9 ^{+0.7} _{-0.7}	4.5 ^{+1.0} _{-1.0}	88 ⁺³ ₋₃	1366	11.94 ^{+0.10} _{-0.10}	54.21 ^{+0.10} _{-0.10}	6.13E+37	1.10E+35
1826	58727.959402073	563.5 ^{+1.3} _{-1.3}	1.7 ^{+0.3} _{-0.3}	87 ⁺⁴ ₋₄	1113	12.19 ^{+0.10} _{-0.10}	20.30 ^{+0.03} _{-0.03}	2.29E+37	3.13E+34
1827	58727.960034090	563.4 ^{+1.3} _{-1.3}	2.2 ^{+0.5} _{-0.5}	184 ⁺⁹ ₋₉	1268	9.42 ^{+0.08} _{-0.08}	20.81 ^{+0.04} _{-0.04}	2.35E+37	4.16E+34
1828	58727.960047233	562.7 ^{+1.4} _{-1.4}	4.5 ^{+0.8} _{-0.8}	99 ⁺⁵³ ₋₅₃	1308	7.80 ^{+0.07} _{-0.07}	35.03 ^{+0.06} _{-0.06}	3.96E+37	6.39E+34
1829	58727.960077675	563.6 ^{+0.9} _{-0.9}	6.9 ^{+1.5} _{-1.5}	56 ⁺¹⁰ ₋₁₀	1455	8.07 ^{+0.07} _{-0.07}	55.39 ^{+0.10} _{-0.10}	6.26E+37	1.14E+35
1830	58727.960328751	562.3 ^{+1.0} _{-1.0}	2.7 ^{+0.5} _{-0.5}	157 ⁺²⁰ ₋₂₀	1326	9.78 ^{+0.08} _{-0.08}	26.61 ^{+0.04} _{-0.04}	3.01E+37	4.92E+34
1831	58727.960447174	564.7 ^{+0.4} _{-0.4}	2.8 ^{+0.2} _{-0.2}	81 ⁺²¹ ₋₂₁	1365	18.93 ^{+0.16} _{-0.16}	53.41 ^{+0.04} _{-0.04}	6.04E+37	4.46E+34
1832	58727.960591709	563.5 ^{+1.2} _{-1.2}	4.1 ^{+1.0} _{-1.0}	145 ⁺⁶⁴ ₋₆₄	1330	9.49 ^{+0.08} _{-0.08}	39.37 ^{+0.08} _{-0.08}	4.45E+37	8.76E+34
1833	58727.960598009	563.0 ^{+1.3} _{-1.3}	4.1 ^{+1.4} _{-1.4}	107 ⁺²⁹ ₋₂₉	1377	6.06 ^{+0.05} _{-0.05}	24.98 ^{+0.07} _{-0.07}	2.82E+37	8.00E+34
1834	58727.960691401	563.2 ^{+1.3} _{-1.3}	2.6 ^{+0.5} _{-0.5}	81 ⁺¹⁶ ₋₁₆	1391	7.95 ^{+0.07} _{-0.07}	20.96 ^{+0.04} _{-0.04}	2.37E+37	4.08E+34
1835	58727.961645253	563.6 ^{+1.1} _{-1.1}	2.7 ^{+0.3} _{-0.3}	100 ⁺⁴⁸ ₋₄₈	1398	17.72 ^{+0.15} _{-0.15}	47.91 ^{+0.04} _{-0.04}	5.41E+37	5.00E+34
1836	58727.961747390	563.3 ^{+0.7} _{-0.7}	3.0 ^{+0.5} _{-0.5}	385 ⁺⁵⁴ ₋₅₄	1238	10.64 ^{+0.09} _{-0.09}	31.66 ^{+0.05} _{-0.05}	3.58E+37	5.15E+34
1837	58727.961959693	564.5 ^{+0.8} _{-0.8}	4.6 ^{+1.1} _{-1.1}	83 ⁺²⁹ ₋₂₉	1427	8.38 ^{+0.07} _{-0.07}	38.53 ^{+0.08} _{-0.08}	4.35E+37	8.50E+34
1838	58727.962195190	562.2 ^{+1.2} _{-1.2}	4.0 ^{+0.5} _{-0.5}	174 ⁺⁵⁴ ₋₅₄	1399	14.93 ^{+0.13} _{-0.13}	60.16 ^{+0.07} _{-0.07}	6.80E+37	7.67E+34
1839	58727.962428953	563.0 ^{+1.3} _{-1.3}	3.3 ^{+0.7} _{-0.7}	101 ⁺⁴ ₋₄	1383	9.67 ^{+0.08} _{-0.08}	32.13 ^{+0.06} _{-0.06}	3.63E+37	6.52E+34
1840	58727.962659034	563.8 ^{+1.3} _{-1.3}	3.6 ^{+0.9} _{-0.9}	115 ⁺³⁸ ₋₃₈	1417	10.21 ^{+0.09} _{-0.09}	36.79 ^{+0.07} _{-0.07}	4.16E+37	8.46E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1841	58727.962742032	563.2 ^{+0.1} _{-0.1}	2.7 ^{+0.2} _{-0.2}	97 ⁺⁵³ ₋₅₃	1229	26.18 ^{+0.22} _{-0.22}	69.87 ^{+0.04} _{-0.04}	7.90E+37	4.51E+34
1842	58727.962810689	563.2 ^{+1.4} _{-1.4}	2.9 ^{+1.0} _{-1.0}	61 ⁺¹⁷ ₋₁₇	1420	5.21 ^{+0.04} _{-0.04}	14.94 ^{+0.04} _{-0.04}	1.69E+37	4.93E+34
1843	58727.962912282	563.0 ^{+1.2} _{-1.2}	3.5 ^{+1.0} _{-1.0}	82 ⁺⁸⁰ ₋₈₀	1102	6.20 ^{+0.05} _{-0.05}	21.93 ^{+0.05} _{-0.05}	2.48E+37	6.13E+34
1844	58727.963011578	563.7 ^{+1.2} _{-1.2}	4.1 ^{+0.6} _{-0.6}	125 ⁺⁵⁸ ₋₅₈	1416	15.51 ^{+0.13} _{-0.13}	63.61 ^{+0.61} _{-0.61}	6.81E+37	6.48E+35
1845	58727.963285773	562.8 ^{+1.2} _{-1.2}	5.2 ^{+1.0} _{-1.0}	82 ⁺⁷³ ₋₇₃	1076	9.23 ^{+0.08} _{-0.08}	47.61 ^{+0.08} _{-0.08}	5.38E+37	8.72E+34
1846	58727.963371573	562.6 ^{+1.0} _{-1.0}	4.0 ^{+0.6} _{-0.6}	130 ⁺⁸ ₋₈	1372	14.44 ^{+0.12} _{-0.12}	58.24 ^{+0.55} _{-0.55}	6.23E+37	5.93E+35
1847	58727.963428978	563.2 ^{+1.2} _{-1.2}	5.5 ^{+0.8} _{-0.8}	81 ⁺¹¹ ₋₁₁	1368	9.89 ^{+0.08} _{-0.08}	53.99 ^{+0.51} _{-0.51}	5.78E+37	5.42E+35
1848	58727.963726963	563.4 ^{+1.5} _{-1.5}	2.7 ^{+0.5} _{-0.5}	116 ⁺⁵ ₋₅	1283	9.67 ^{+0.08} _{-0.08}	26.48 ^{+0.04} _{-0.04}	2.99E+37	4.17E+34
1849	58727.964155175	563.9 ^{+1.2} _{-1.2}	4.0 ^{+0.6} _{-0.6}	57 ⁺³⁶ ₋₃₆	1147	12.37 ^{+0.10} _{-0.10}	49.96 ^{+0.47} _{-0.47}	5.35E+37	5.05E+35
1850	58727.964627746	563.3 ^{+0.6} _{-0.6}	3.1 ^{+0.5} _{-0.5}	131 ⁺²⁵ ₋₂₅	1321	12.59 ^{+0.10} _{-0.10}	39.35 ^{+0.37} _{-0.37}	4.21E+37	3.94E+35
1851	58727.965301687	563.5 ^{+1.2} _{-1.2}	2.0 ^{+0.2} _{-0.2}	85 ⁺³⁹ ₋₃₉	1335	20.78 ^{+0.17} _{-0.17}	42.22 ^{+0.03} _{-0.03}	4.77E+37	3.21E+34
1852	58727.965500060	563.3 ^{+1.2} _{-1.2}	6.2 ^{+1.5} _{-1.5}	74 ⁺¹⁷ ₋₁₇	1067	8.24 ^{+0.07} _{-0.07}	50.73 ^{+0.10} _{-0.10}	5.73E+37	1.17E+35
1853	58727.965500312	562.6 ^{+1.1} _{-1.1}	7.3 ^{+1.1} _{-1.1}	167 ⁺³⁷ ₋₃₇	1167	4.82 ^{+0.04} _{-0.04}	35.42 ^{+0.33} _{-0.33}	3.79E+37	3.51E+35
1854	58727.965661904	561.8 ^{+1.1} _{-1.1}	3.0 ^{+1.0} _{-1.0}	73 ⁺⁶ ₋₆	1392	7.38 ^{+0.06} _{-0.06}	22.20 ^{+0.06} _{-0.06}	2.51E+37	6.92E+34
1855	58727.965707770	563.8 ^{+0.9} _{-0.9}	1.4 ^{+0.3} _{-0.3}	52 ⁺¹³ ₋₁₃	1433	10.87 ^{+0.09} _{-0.09}	15.70 ^{+0.03} _{-0.03}	1.77E+37	3.30E+34
1856	58727.965796878	562.9 ^{+1.2} _{-1.2}	4.4 ^{+0.6} _{-0.6}	103 ⁺³⁵ ₋₃₅	1109	10.41 ^{+0.09} _{-0.09}	45.49 ^{+0.43} _{-0.43}	4.87E+37	4.55E+35
1857	58727.965935714	563.4 ^{+1.3} _{-1.3}	3.2 ^{+0.9} _{-0.9}	297 ⁺⁷ ₋₇	1237	7.83 ^{+0.06} _{-0.06}	24.76 ^{+0.06} _{-0.06}	2.80E+37	6.26E+34
1858	58727.966439648	562.9 ^{+1.3} _{-1.3}	2.3 ^{+0.6} _{-0.6}	68 ⁺³⁷ ₋₃₇	1355	9.48 ^{+0.08} _{-0.08}	22.16 ^{+0.04} _{-0.04}	2.50E+37	4.86E+34
1859	58727.966706230	564.0 ^{+0.9} _{-0.9}	3.2 ^{+1.0} _{-1.0}	53 ⁺⁴ ₋₄	1352	7.02 ^{+0.06} _{-0.06}	22.55 ^{+0.06} _{-0.06}	2.55E+37	6.31E+34
1860	58727.967237324	563.1 ^{+1.4} _{-1.4}	2.2 ^{+0.9} _{-0.9}	62 ⁺⁶⁵ ₋₆₅	1292	4.25 ^{+0.03} _{-0.03}	9.38 ^{+0.03} _{-0.03}	1.06E+37	3.47E+34
1861	58727.967237719	563.5 ^{+1.0} _{-1.0}	1.8 ^{+0.6} _{-0.6}	75 ⁺⁶ ₋₆	1184	7.43 ^{+0.06} _{-0.06}	13.33 ^{+0.04} _{-0.04}	1.51E+37	4.02E+34
1862	58727.967544580	563.7 ^{+1.3} _{-1.3}	2.0 ^{+0.7} _{-0.7}	208 ⁺¹⁶ ₋₁₆	1277	6.45 ^{+0.05} _{-0.05}	13.20 ^{+0.04} _{-0.04}	1.49E+37	4.39E+34
1863	58727.967698747	563.6 ^{+1.2} _{-1.2}	3.5 ^{+0.9} _{-0.9}	92 ⁺⁶⁶ ₋₆₆	1106	8.31 ^{+0.07} _{-0.07}	29.46 ^{+0.06} _{-0.06}	3.33E+37	6.74E+34
1864	58727.968112917	563.3 ^{+1.3} _{-1.3}	3.3 ^{+0.6} _{-0.6}	66 ⁺¹¹ ₋₁₁	1063	8.70 ^{+0.07} _{-0.07}	28.97 ^{+0.04} _{-0.04}	3.27E+37	4.60E+34
1865	58727.968273782	562.9 ^{+1.3} _{-1.3}	2.7 ^{+0.6} _{-0.6}	241 ⁺¹⁵ ₋₁₅	1366	11.22 ^{+0.09} _{-0.09}	30.53 ^{+0.05} _{-0.05}	3.45E+37	5.58E+34
1866	58727.968847621	564.1 ^{+0.9} _{-0.9}	2.8 ^{+0.6} _{-0.6}	108 ⁺⁴ ₋₄	1251	8.95 ^{+0.07} _{-0.07}	24.71 ^{+0.04} _{-0.04}	2.79E+37	4.81E+34
1867	58727.969386135	563.3 ^{+1.2} _{-1.2}	2.5 ^{+0.9} _{-0.9}	216 ⁺⁵ ₋₅	1204	7.01 ^{+0.06} _{-0.06}	17.34 ^{+0.05} _{-0.05}	1.96E+37	5.49E+34
1868	58727.969386255	563.7 ^{+1.3} _{-1.3}	3.6 ^{+1.2} _{-1.2}	77 ⁺⁴⁰ ₋₄₀	1351	6.52 ^{+0.05} _{-0.05}	23.50 ^{+0.06} _{-0.06}	2.66E+37	6.89E+34
1869	58727.969386615	563.4 ^{+1.2} _{-1.2}	2.1 ^{+1.1} _{-1.1}	54 ⁺¹¹ ₋₁₁	1344	3.88 ^{+0.03} _{-0.03}	7.99 ^{+0.04} _{-0.04}	9.02E+36	4.00E+34
1870	58727.969537186	563.1 ^{+1.3} _{-1.3}	4.3 ^{+1.7} _{-1.7}	86 ⁺⁶ ₋₆	1346	6.38 ^{+0.05} _{-0.05}	27.36 ^{+0.09} _{-0.09}	3.09E+37	9.65E+34
1871	58727.970051531	564.9 ^{+0.5} _{-0.5}	3.1 ^{+0.3} _{-0.3}	75 ⁺²² ₋₂₂	1330	16.60 ^{+0.13} _{-0.13}	50.80 ^{+0.05} _{-0.05}	5.74E+37	5.09E+34
1872	58727.970394374	564.9 ^{+0.6} _{-0.6}	2.6 ^{+0.7} _{-0.7}	58 ⁺⁴¹ ₋₄₁	1131	8.72 ^{+0.07} _{-0.07}	22.23 ^{+0.05} _{-0.05}	2.51E+37	5.21E+34
1873	58727.970762908	564.0 ^{+0.6} _{-0.6}	1.5 ^{+0.8} _{-0.8}	106 ⁺¹⁴⁴ ₋₁₄₄	1096	4.97 ^{+0.04} _{-0.04}	7.27 ^{+0.03} _{-0.03}	8.21E+36	3.64E+34
1874	58727.970811680	563.7 ^{+0.7} _{-0.7}	1.6 ^{+0.3} _{-0.3}	157 ⁺³¹ ₋₃₁	1364	10.97 ^{+0.09} _{-0.09}	18.09 ^{+0.03} _{-0.03}	2.04E+37	2.95E+34
1875	58727.970812721	563.8 ^{+1.1} _{-1.1}	4.8 ^{+0.4} _{-0.4}	174 ⁺⁴⁸ ₋₄₈	1239	15.04 ^{+0.12} _{-0.12}	71.92 ^{+0.05} _{-0.05}	8.13E+37	5.83E+34
1876	58727.971339075	562.8 ^{+0.1} _{-0.1}	4.9 ^{+0.3} _{-0.3}	256 ⁺²² ₋₂₂	1131	120.39 ^{+4.51} _{-4.51}	588.71 ^{+1.31} _{-1.31}	6.30E+38	1.40E+36
1877	58727.971339153	562.8 ^{+0.1} _{-0.1}	4.8 ^{+0.3} _{-0.3}	361 ⁺⁶ ₋₆	1187	123.40 ^{+4.60} _{-4.60}	587.38 ^{+1.52} _{-1.52}	6.29E+38	1.62E+36
1878	58727.971339230	562.5 ^{+0.1} _{-0.1}	9.8 ^{+1.4} _{-1.4}	190 ⁺⁶⁹ ₋₆₉	1366	21.42 ^{+0.17} _{-0.17}	210.84 ^{+1.87} _{-1.87}	2.26E+38	2.00E+36
1879	58727.971339258	562.5 ^{+0.1} _{-0.1}	7.0 ^{+0.7} _{-0.7}	208 ⁺¹⁸ ₋₁₈	1118	58.35 ^{+3.89} _{-3.89}	406.12 ^{+2.65} _{-2.65}	4.35E+38	2.83E+36
1880	58727.971671253	562.9 ^{+1.1} _{-1.1}	3.5 ^{+1.2} _{-1.2}	79 ⁺³⁶ ₋₃₆	1342	7.52 ^{+0.06} _{-0.06}	25.95 ^{+0.07} _{-0.07}	2.93E+37	7.54E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1881	58727.971732710	563.3 ^{+1.4} _{-1.4}	3.2 ^{+0.9} _{-0.9}	49 ⁺¹⁹ ₋₁₉	1384	8.30 ^{+0.07} _{-0.07}	26.73 ^{+0.06} _{-0.06}	3.02E+37	6.93E+34
1882	58727.971936123	562.4 ^{+1.0} _{-1.0}	4.6 ^{+1.0} _{-1.0}	144 ⁺³⁸ ₋₃₈	1370	9.04 ^{+0.07} _{-0.07}	41.72 ^{+0.07} _{-0.07}	4.71E+37	8.31E+34
1883	58727.972045030	564.6 ^{+0.6} _{-0.6}	3.7 ^{+0.6} _{-0.6}	62 ⁺¹⁵ ₋₁₅	1392	12.76 ^{+0.10} _{-0.10}	46.87 ^{+0.06} _{-0.06}	5.30E+37	6.66E+34
1884	58727.972253056	563.4 ^{+1.2} _{-1.2}	7.1 ^{+2.3} _{-2.3}	250 ⁺⁶⁰ ₋₆₀	1256	7.78 ^{+0.06} _{-0.06}	54.89 ^{+0.14} _{-0.14}	6.20E+37	1.54E+35
1885	58727.972319845	564.7 ^{+0.5} _{-0.5}	3.9 ^{+0.4} _{-0.4}	197 ⁺²⁷ ₋₂₇	1384	65.39 ^{+5.04} _{-5.04}	252.41 ^{+1.81} _{-1.81}	2.70E+38	1.94E+36
1886	58727.972475313	564.7 ^{+0.6} _{-0.6}	3.3 ^{+0.4} _{-0.4}	94 ⁺³⁹ ₋₃₉	1186	13.99 ^{+0.11} _{-0.11}	46.51 ^{+0.04} _{-0.04}	5.26E+37	4.78E+34
1887	58727.973068561	562.2 ^{+1.0} _{-1.0}	3.4 ^{+1.1} _{-1.1}	280 ⁺¹⁵² ₋₁₅₂	1176	7.61 ^{+0.06} _{-0.06}	25.94 ^{+0.06} _{-0.06}	2.93E+37	7.08E+34
1888	58727.973213168	563.4 ^{+1.1} _{-1.1}	3.2 ^{+0.8} _{-0.8}	64 ⁺¹¹ ₋₁₁	1404	9.03 ^{+0.07} _{-0.07}	28.78 ^{+0.06} _{-0.06}	3.25E+37	6.72E+34
1889	58727.973370627	562.2 ^{+1.0} _{-1.0}	3.5 ^{+0.7} _{-0.7}	98 ⁺⁵⁴ ₋₅₄	1145	9.29 ^{+0.07} _{-0.07}	32.05 ^{+0.05} _{-0.05}	3.62E+37	5.73E+34
1890	58727.973547974	563.6 ^{+1.1} _{-1.1}	4.6 ^{+1.5} _{-1.5}	108 ⁺⁷ ₋₇	1145	7.42 ^{+0.06} _{-0.06}	34.25 ^{+0.09} _{-0.09}	3.87E+37	9.67E+34
1891	58727.973624215	563.1 ^{+0.9} _{-0.9}	3.3 ^{+0.9} _{-0.9}	66 ⁺¹¹ ₋₁₁	1357	9.14 ^{+0.07} _{-0.07}	29.92 ^{+0.06} _{-0.06}	3.38E+37	7.31E+34
1892	58727.973651687	563.3 ^{+1.2} _{-1.2}	1.8 ^{+0.7} _{-0.7}	177 ⁺¹⁵⁴ ₋₁₅₄	1152	6.17 ^{+0.05} _{-0.05}	11.27 ^{+0.03} _{-0.03}	1.27E+37	3.92E+34
1893	58727.973673032	564.5 ^{+0.3} _{-0.3}	4.0 ^{+0.3} _{-0.3}	237 ⁺¹⁹ ₋₁₉	1221	82.70 ^{+4.83} _{-4.83}	332.45 ^{+1.35} _{-1.35}	3.56E+38	1.45E+36
1894	58727.973680404	563.0 ^{+1.2} _{-1.2}	3.9 ^{+1.2} _{-1.2}	79 ⁺¹⁸ ₋₁₈	1173	7.45 ^{+0.06} _{-0.06}	28.88 ^{+0.07} _{-0.07}	3.26E+37	7.81E+34
1895	58727.974059706	562.8 ^{+1.4} _{-1.4}	4.9 ^{+1.1} _{-1.1}	166 ⁺³⁴ ₋₃₄	1398	9.54 ^{+0.07} _{-0.07}	46.56 ^{+0.08} _{-0.08}	5.26E+37	8.89E+34
1896	58727.974109304	563.1 ^{+1.3} _{-1.3}	6.3 ^{+0.9} _{-0.9}	152 ⁺²¹ ₋₂₁	1233	13.83 ^{+0.11} _{-0.11}	87.58 ^{+0.09} _{-0.09}	9.90E+37	1.05E+35
1897	58727.974109931	563.5 ^{+1.3} _{-1.3}	5.4 ^{+1.6} _{-1.6}	124 ⁺⁶⁵ ₋₆₅	1295	7.44 ^{+0.06} _{-0.06}	40.28 ^{+0.09} _{-0.09}	4.55E+37	1.01E+35
1898	58727.974110391	562.9 ^{+1.2} _{-1.2}	5.2 ^{+1.3} _{-1.3}	98 ⁺¹⁷ ₋₁₇	1089	10.93 ^{+0.08} _{-0.08}	56.78 ^{+0.11} _{-0.11}	6.42E+37	1.21E+35
1899	58727.974810762	564.5 ^{+0.8} _{-0.8}	3.3 ^{+0.5} _{-0.5}	180 ⁺²⁵ ₋₂₅	1243	15.52 ^{+0.12} _{-0.12}	51.20 ^{+0.06} _{-0.06}	5.79E+37	6.35E+34
1900	58727.975100337	563.6 ^{+1.4} _{-1.4}	5.9 ^{+1.7} _{-1.7}	136 ⁺⁷ ₋₇	1309	7.68 ^{+0.06} _{-0.06}	45.42 ^{+0.10} _{-0.10}	5.13E+37	1.12E+35
1901	58727.975100645	563.7 ^{+0.8} _{-0.8}	6.9 ^{+2.7} _{-2.7}	293 ⁺¹²³ ₋₁₂₃	1191	4.31 ^{+0.03} _{-0.03}	29.63 ^{+0.09} _{-0.09}	3.35E+37	1.01E+35
1902	58727.975101534	564.0 ^{+0.7} _{-0.7}	6.2 ^{+1.0} _{-1.0}	122 ⁺¹¹ ₋₁₁	1426	18.59 ^{+0.14} _{-0.14}	115.53 ^{+0.14} _{-0.14}	1.31E+38	1.61E+35
1903	58727.975677185	563.8 ^{+0.7} _{-0.7}	2.1 ^{+0.5} _{-0.5}	94 ⁺³¹ ₋₃₁	1396	12.18 ^{+0.09} _{-0.09}	25.36 ^{+0.04} _{-0.04}	2.87E+37	4.77E+34
1904	58727.975677285	563.5 ^{+0.9} _{-0.9}	1.9 ^{+0.4} _{-0.4}	55 ⁺⁸ ₋₈	1114	9.29 ^{+0.07} _{-0.07}	17.93 ^{+0.03} _{-0.03}	2.03E+37	3.57E+34
1905	58727.975692386	562.6 ^{+1.2} _{-1.2}	2.3 ^{+0.8} _{-0.8}	80 ⁺²² ₋₂₂	1330	7.00 ^{+0.05} _{-0.05}	15.82 ^{+0.04} _{-0.04}	1.79E+37	4.64E+34
1906	58727.975866638	563.2 ^{+1.3} _{-1.3}	2.2 ^{+0.7} _{-0.7}	144 ⁺³⁴ ₋₃₄	1252	11.18 ^{+0.09} _{-0.09}	24.03 ^{+0.06} _{-0.06}	2.72E+37	6.33E+34
1907	58727.976006602	563.3 ^{+1.1} _{-1.1}	4.4 ^{+1.2} _{-1.2}	82 ⁺³ ₋₃	1335	8.23 ^{+0.06} _{-0.06}	35.89 ^{+0.08} _{-0.08}	4.06E+37	8.66E+34
1908	58727.976040125	562.1 ^{+0.8} _{-0.8}	8.7 ^{+2.4} _{-2.4}	214 ⁺²⁴ ₋₂₄	1218	7.67 ^{+0.06} _{-0.06}	66.85 ^{+0.14} _{-0.14}	7.55E+37	1.55E+35
1909	58727.976040266	563.1 ^{+1.3} _{-1.3}	2.6 ^{+0.4} _{-0.4}	74 ⁺⁴ ₋₄	1100	10.80 ^{+0.08} _{-0.08}	28.62 ^{+0.04} _{-0.04}	3.23E+37	4.00E+34
1910	58727.976706290	564.3 ^{+1.0} _{-1.0}	5.7 ^{+2.7} _{-2.7}	30 ⁺⁸ ₋₈	1420	6.09 ^{+0.05} _{-0.05}	34.52 ^{+0.12} _{-0.12}	3.90E+37	1.39E+35
1911	58727.976934861	563.9 ^{+0.3} _{-0.3}	3.6 ^{+1.6} _{-1.6}	68 ⁺²¹ ₋₂₁	1436	5.71 ^{+0.04} _{-0.04}	20.72 ^{+0.07} _{-0.07}	2.34E+37	7.90E+34
1912	58727.977140643	563.7 ^{+1.3} _{-1.3}	6.9 ^{+1.0} _{-1.0}	94 ⁺²⁴ ₋₂₄	1285	13.19 ^{+0.10} _{-0.10}	91.21 ^{+0.78} _{-0.78}	9.76E+37	8.39E+35
1913	58727.977187534	564.0 ^{+0.9} _{-0.9}	2.8 ^{+0.7} _{-0.7}	70 ⁺⁵ ₋₅	1353	8.29 ^{+0.06} _{-0.06}	23.04 ^{+0.04} _{-0.04}	2.60E+37	4.97E+34
1914	58727.977334477	562.4 ^{+1.2} _{-1.2}	2.0 ^{+0.5} _{-0.5}	61 ⁺¹⁴ ₋₁₄	1384	7.31 ^{+0.06} _{-0.06}	14.60 ^{+0.03} _{-0.03}	1.65E+37	2.83E+34
1915	58727.977361087	562.8 ^{+1.2} _{-1.2}	2.1 ^{+0.8} _{-0.8}	322 ⁺⁸ ₋₈	1238	6.28 ^{+0.05} _{-0.05}	12.97 ^{+0.04} _{-0.04}	1.47E+37	4.20E+34
1916	58727.977655470	563.3 ^{+1.3} _{-1.3}	6.5 ^{+1.7} _{-1.7}	60 ⁺²⁶ ₋₂₆	1338	7.97 ^{+0.06} _{-0.06}	51.97 ^{+0.10} _{-0.10}	5.87E+37	1.12E+35
1917	58727.978031496	562.9 ^{+1.3} _{-1.3}	4.7 ^{+1.3} _{-1.3}	74 ⁺⁴⁰ ₋₄₀	1359	8.75 ^{+0.07} _{-0.07}	41.12 ^{+0.08} _{-0.08}	4.65E+37	9.58E+34
1918	58727.979421883	563.2 ^{+1.4} _{-1.4}	6.7 ^{+2.9} _{-2.9}	69 ⁺³⁵ ₋₃₅	1348	6.08 ^{+0.04} _{-0.04}	40.90 ^{+0.13} _{-0.13}	4.62E+37	1.50E+35
1919	58727.979613588	561.1 ^{+1.0} _{-1.0}	4.0 ^{+1.6} _{-1.6}	70 ⁺³² ₋₃₂	1105	6.61 ^{+0.05} _{-0.05}	26.44 ^{+0.08} _{-0.08}	2.99E+37	8.79E+34
1920	58727.980000115	561.2 ^{+1.0} _{-1.0}	9.6 ^{+2.8} _{-2.8}	159 ⁺⁹⁷ ₋₉₇	1104	5.62 ^{+0.04} _{-0.04}	54.18 ^{+0.12} _{-0.12}	6.12E+37	1.33E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1921	58727.980377690	564.2 ^{+1.0} _{-1.0}	6.0 ^{+0.9} _{-0.9}	199 ⁺²⁷ ₋₂₇	1231	17.25 ^{+0.13} _{-0.13}	103.60 ^{+0.88} _{-0.88}	1.11E+38	9.42E+35
1922	58727.980392991	563.0 ^{+0.5} _{-0.5}	3.7 ^{+0.5} _{-0.5}	81 ⁺³³ ₋₃₃	1348	12.81 ^{+0.10} _{-0.10}	46.94 ^{+0.05} _{-0.05}	5.30E+37	5.88E+34
1923	58727.980412168	563.2 ^{+1.3} _{-1.3}	10.2 ^{+1.5} _{-1.5}	145 ⁺¹² ₋₁₂	1230	6.48 ^{+0.05} _{-0.05}	65.95 ^{+0.07} _{-0.07}	7.45E+37	8.02E+34
1924	58727.981521323	561.2 ^{+0.4} _{-0.4}	3.0 ^{+0.5} _{-0.5}	76 ⁺⁶³ ₋₆₃	1127	17.95 ^{+0.13} _{-0.13}	53.09 ^{+0.06} _{-0.06}	6.00E+37	6.96E+34
1925	58727.981743890	563.3 ^{+1.2} _{-1.2}	6.5 ^{+0.9} _{-0.9}	85 ⁺⁴ ₋₄	1334	8.49 ^{+0.06} _{-0.06}	55.25 ^{+0.46} _{-0.46}	5.91E+37	4.94E+35
1926	58727.981769247	563.2 ^{+1.2} _{-1.2}	2.9 ^{+0.6} _{-0.6}	87 ⁺⁷⁹ ₋₇₉	1316	10.43 ^{+0.08} _{-0.08}	30.57 ^{+0.05} _{-0.05}	3.45E+37	5.60E+34
1927	58727.982638391	562.1 ^{+0.6} _{-0.6}	6.3 ^{+0.9} _{-0.9}	109 ⁺³⁹ ₋₃₉	1410	6.88 ^{+0.05} _{-0.05}	43.66 ^{+0.37} _{-0.37}	4.67E+37	3.96E+35
1928	58727.982691532	566.1 ^{+0.4} _{-0.4}	3.9 ^{+0.6} _{-0.6}	136 ⁺¹⁵ ₋₁₅	1425	23.01 ^{+0.17} _{-0.17}	89.35 ^{+0.75} _{-0.75}	9.57E+37	8.04E+35
1929	58727.983476185	563.8 ^{+0.3} _{-0.3}	1.8 ^{+0.3} _{-0.3}	157 ⁺⁴⁷ ₋₄₇	1348	18.73 ^{+0.14} _{-0.14}	33.43 ^{+0.04} _{-0.04}	3.78E+37	4.24E+34
1930	58727.983576276	564.9 ^{+0.8} _{-0.8}	3.8 ^{+1.2} _{-1.2}	151 ⁺²⁸ ₋₂₈	1219	9.51 ^{+0.07} _{-0.07}	36.06 ^{+0.08} _{-0.08}	4.07E+37	9.39E+34
1931	58727.983576407	563.3 ^{+1.1} _{-1.1}	9.5 ^{+1.6} _{-1.6}	160 ⁺⁹ ₋₉	1215	17.00 ^{+0.12} _{-0.12}	162.02 ^{+0.20} _{-0.20}	1.83E+38	2.32E+35
1932	58727.983775960	562.9 ^{+1.3} _{-1.3}	6.4 ^{+1.3} _{-1.3}	158 ⁺¹⁹ ₋₁₉	1385	11.77 ^{+0.09} _{-0.09}	75.05 ^{+0.11} _{-0.11}	8.48E+37	1.29E+35
1933	58727.983953686	563.0 ^{+0.5} _{-0.5}	1.9 ^{+0.5} _{-0.5}	75 ⁺¹⁴ ₋₁₄	1431	10.80 ^{+0.08} _{-0.08}	20.57 ^{+0.04} _{-0.04}	2.32E+37	4.19E+34
1934	58727.983986774	563.0 ^{+1.1} _{-1.1}	2.6 ^{+0.6} _{-0.6}	222 ⁺¹⁴⁷ ₋₁₄₇	1267	11.95 ^{+0.09} _{-0.09}	30.67 ^{+0.05} _{-0.05}	3.47E+37	5.59E+34
1935	58727.985219281	563.7 ^{+1.4} _{-1.4}	3.9 ^{+0.6} _{-0.6}	91 ⁺²² ₋₂₂	1430	14.55 ^{+0.11} _{-0.11}	57.39 ^{+0.48} _{-0.48}	6.14E+37	5.12E+35
1936	58727.985221098	563.2 ^{+1.4} _{-1.4}	3.7 ^{+1.4} _{-1.4}	53 ⁺⁴ ₋₄	1408	7.11 ^{+0.05} _{-0.05}	26.45 ^{+0.07} _{-0.07}	2.99E+37	8.38E+34
1937	58727.985905080	563.1 ^{+1.2} _{-1.2}	7.6 ^{+1.5} _{-1.5}	183 ⁺⁴³ ₋₄₃	1311	9.80 ^{+0.07} _{-0.07}	74.11 ^{+0.11} _{-0.11}	8.37E+37	1.23E+35
1938	58727.986095449	564.2 ^{+1.1} _{-1.1}	2.0 ^{+0.7} _{-0.7}	119 ⁺⁵ ₋₅	1380	9.16 ^{+0.07} _{-0.07}	18.06 ^{+0.05} _{-0.05}	2.04E+37	5.56E+34
1939	58727.986125717	563.4 ^{+1.2} _{-1.2}	4.5 ^{+1.5} _{-1.5}	153 ⁺⁷ ₋₇	1144	8.95 ^{+0.07} _{-0.07}	40.55 ^{+0.10} _{-0.10}	4.58E+37	1.13E+35
1940	58727.986668999	562.9 ^{+1.2} _{-1.2}	4.1 ^{+1.2} _{-1.2}	95 ⁺¹⁴ ₋₁₄	1430	11.04 ^{+0.08} _{-0.08}	45.51 ^{+0.10} _{-0.10}	5.14E+37	1.13E+35
1941	58727.986867788	564.8 ^{+0.8} _{-0.8}	2.7 ^{+1.6} _{-1.6}	144 ⁺⁹ ₋₉	1143	6.63 ^{+0.05} _{-0.05}	17.70 ^{+0.08} _{-0.08}	2.00E+37	8.68E+34
1942	58727.987122333	563.3 ^{+1.2} _{-1.2}	1.4 ^{+0.5} _{-0.5}	229 ⁺³ ₋₃	1262	5.73 ^{+0.04} _{-0.04}	8.18 ^{+0.02} _{-0.02}	9.24E+36	2.59E+34
1943	58727.987404259	564.1 ^{+1.1} _{-1.1}	4.2 ^{+1.9} _{-1.9}	96 ⁺⁵ ₋₅	1104	5.42 ^{+0.04} _{-0.04}	22.72 ^{+0.07} _{-0.07}	2.57E+37	8.31E+34
1944	58727.987461957	564.0 ^{+0.9} _{-0.9}	2.7 ^{+0.4} _{-0.4}	84 ⁺⁴⁸ ₋₄₈	1303	7.79 ^{+0.06} _{-0.06}	20.70 ^{+0.17} _{-0.17}	2.22E+37	1.85E+35
1945	58727.987532603	564.4 ^{+0.5} _{-0.5}	4.2 ^{+0.6} _{-0.6}	126 ⁺⁵⁸ ₋₅₈	1084	20.64 ^{+0.15} _{-0.15}	85.94 ^{+0.10} _{-0.10}	9.71E+37	1.10E+35
1946	58727.987853951	562.9 ^{+1.3} _{-1.3}	4.9 ^{+1.6} _{-1.6}	225 ⁺⁴ ₋₄	1255	8.68 ^{+0.06} _{-0.06}	42.34 ^{+0.10} _{-0.10}	4.78E+37	1.15E+35
1947	58727.988227802	563.3 ^{+1.4} _{-1.4}	5.2 ^{+1.6} _{-1.6}	194 ⁺³³ ₋₃₃	1319	8.06 ^{+0.06} _{-0.06}	41.50 ^{+0.09} _{-0.09}	4.69E+37	1.06E+35
1948	58727.988329772	563.8 ^{+1.2} _{-1.2}	8.3 ^{+2.0} _{-2.0}	65 ⁺¹⁸ ₋₁₈	1149	6.78 ^{+0.05} _{-0.05}	56.16 ^{+0.10} _{-0.10}	6.35E+37	1.13E+35
1949	58727.988403917	562.4 ^{+0.6} _{-0.6}	6.7 ^{+2.0} _{-2.0}	78 ⁺²⁰ ₋₂₀	1413	7.58 ^{+0.06} _{-0.06}	51.18 ^{+0.11} _{-0.11}	5.78E+37	1.24E+35
1950	58727.988760231	562.9 ^{+1.0} _{-1.0}	3.0 ^{+1.3} _{-1.3}	110 ⁺¹⁰ ₋₁₀	1345	6.89 ^{+0.05} _{-0.05}	20.37 ^{+0.06} _{-0.06}	2.30E+37	7.28E+34
1951	58727.989162232	565.2 ^{+0.7} _{-0.7}	3.8 ^{+0.6} _{-0.6}	96 ⁺³⁴ ₋₃₄	1322	18.12 ^{+0.13} _{-0.13}	68.56 ^{+0.07} _{-0.07}	7.75E+37	8.27E+34
1952	58727.989287808	563.7 ^{+0.8} _{-0.8}	2.8 ^{+0.7} _{-0.7}	263 ⁺⁵ ₋₅	1290	11.64 ^{+0.09} _{-0.09}	32.26 ^{+0.06} _{-0.06}	3.65E+37	6.53E+34
1953	58727.989542174	563.6 ^{+0.2} _{-0.2}	1.9 ^{+0.3} _{-0.3}	264 ⁺³⁶ ₋₃₆	1208	26.47 ^{+0.19} _{-0.19}	50.62 ^{+0.05} _{-0.05}	5.72E+37	5.65E+34
1954	58727.989843491	562.5 ^{+1.1} _{-1.1}	6.4 ^{+2.4} _{-2.4}	273 ⁺¹³³ ₋₁₃₃	1303	7.45 ^{+0.05} _{-0.05}	47.93 ^{+0.13} _{-0.13}	5.42E+37	1.47E+35
1955	58727.989941015	563.4 ^{+1.2} _{-1.2}	2.2 ^{+0.7} _{-0.7}	47 ⁺²⁸ ₋₂₈	1344	9.97 ^{+0.07} _{-0.07}	22.04 ^{+0.05} _{-0.05}	2.49E+37	6.10E+34
1956	58727.990284513	564.2 ^{+0.1} _{-0.1}	6.5 ^{+0.1} _{-0.1}	405 ⁺⁴ ₋₄	1206	705.04 ^{+6.73} _{-6.73}	4561.61 ^{+0.47} _{-0.47}	4.88E+39	5.04E+35
1957	58727.990952350	563.7 ^{+1.5} _{-1.5}	4.9 ^{+3.0} _{-3.0}	77 ⁺⁴² ₋₄₂	1317	5.77 ^{+0.04} _{-0.04}	28.02 ^{+0.12} _{-0.12}	3.17E+37	1.40E+35
1958	58727.991733668	563.6 ^{+1.1} _{-1.1}	4.5 ^{+2.0} _{-2.0}	126 ⁺¹² ₋₁₂	1202	9.11 ^{+0.07} _{-0.07}	41.05 ^{+0.13} _{-0.13}	4.64E+37	1.50E+35
1959	58727.992062558	561.9 ^{+1.0} _{-1.0}	5.0 ^{+2.6} _{-2.6}	72 ⁺¹⁷ ₋₁₇	1379	5.32 ^{+0.04} _{-0.04}	26.49 ^{+0.10} _{-0.10}	2.99E+37	1.15E+35
1960	58727.992095503	564.2 ^{+0.9} _{-0.9}	5.0 ^{+1.7} _{-1.7}	106 ⁺¹⁰⁴ ₋₁₀₄	1371	8.24 ^{+0.06} _{-0.06}	41.40 ^{+0.10} _{-0.10}	4.68E+37	1.16E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
1961	58727.992176492	563.7 ^{+1.2} _{-1.2}	4.0 ^{+1.1} _{-1.1}	328 ⁺⁸² ₋₈₂	1222	8.69 ^{+0.06} _{-0.06}	34.44 ^{+0.07} _{-0.07}	3.89E+37	8.12E+34
1962	58727.992368018	563.2 ^{+1.0} _{-1.0}	4.4 ^{+1.8} _{-1.8}	80 ⁺²⁸ ₋₂₈	1408	7.66 ^{+0.06} _{-0.06}	33.97 ^{+0.10} _{-0.10}	3.84E+37	1.12E+35
1963	58727.992576177	564.2 ^{+0.8} _{-0.8}	2.7 ^{+0.7} _{-0.7}	66 ⁺⁴ ₋₄	1408	8.92 ^{+0.07} _{-0.07}	24.41 ^{+0.05} _{-0.05}	2.76E+37	5.39E+34
1964	58727.992576576	563.4 ^{+1.2} _{-1.2}	2.1 ^{+0.7} _{-0.7}	52 ⁺⁴ ₋₄	1431	8.75 ^{+0.06} _{-0.06}	18.07 ^{+0.04} _{-0.04}	2.04E+37	4.74E+34
1965	58727.993032487	564.0 ^{+0.2} _{-0.2}	1.5 ^{+0.9} _{-0.9}	155 ⁺¹³ ₋₁₃	1241	7.78 ^{+0.06} _{-0.06}	12.03 ^{+0.05} _{-0.05}	1.36E+37	6.05E+34
1966	58727.993032785	561.5 ^{+0.1} _{-0.1}	2.5 ^{+0.8} _{-0.8}	68 ⁺³ ₋₃	1412	12.85 ^{+0.10} _{-0.10}	32.44 ^{+0.08} _{-0.08}	3.67E+37	8.60E+34
1967	58727.993155033	563.1 ^{+1.0} _{-1.0}	2.6 ^{+1.0} _{-1.0}	51 ⁺³ ₋₃	1071	7.75 ^{+0.06} _{-0.06}	20.03 ^{+0.06} _{-0.06}	2.26E+37	6.41E+34
1968	58727.993641164	563.9 ^{+1.2} _{-1.2}	4.5 ^{+0.9} _{-0.9}	162 ⁺¹⁷ ₋₁₇	1238	15.86 ^{+0.12} _{-0.12}	70.92 ^{+0.10} _{-0.10}	8.01E+37	1.18E+35
1969	58727.993659298	562.7 ^{+1.3} _{-1.3}	2.0 ^{+0.7} _{-0.7}	61 ⁺²⁶ ₋₂₆	1386	9.40 ^{+0.07} _{-0.07}	19.17 ^{+0.05} _{-0.05}	2.17E+37	5.61E+34
1970	58727.994812087	563.9 ^{+1.0} _{-1.0}	3.0 ^{+1.1} _{-1.1}	88 ⁺⁷ ₋₇	1199	8.03 ^{+0.06} _{-0.06}	23.88 ^{+0.07} _{-0.07}	2.70E+37	7.66E+34
1971	58727.995360335	564.2 ^{+0.5} _{-0.5}	1.8 ^{+0.5} _{-0.5}	100 ⁺⁴⁴ ₋₄₄	1316	12.73 ^{+0.09} _{-0.09}	22.83 ^{+0.04} _{-0.04}	2.58E+37	4.85E+34
1972	58727.995360535	562.9 ^{+1.4} _{-1.4}	5.3 ^{+1.5} _{-1.5}	293 ⁺⁴ ₋₄	1210	11.00 ^{+0.08} _{-0.08}	58.60 ^{+0.12} _{-0.12}	6.62E+37	1.38E+35
1973	58727.995484623	563.0 ^{+1.3} _{-1.3}	3.3 ^{+0.5} _{-0.5}	65 ⁺²⁷ ₋₂₇	1364	9.11 ^{+0.07} _{-0.07}	29.93 ^{+0.25} _{-0.25}	3.20E+37	2.70E+35
1974	58727.995511094	563.9 ^{+0.7} _{-0.7}	2.8 ^{+0.4} _{-0.4}	51 ⁺²⁴ ₋₂₄	1372	13.41 ^{+0.10} _{-0.10}	37.96 ^{+0.04} _{-0.04}	4.29E+37	4.66E+34
1975	58727.995810348	564.7 ^{+0.8} _{-0.8}	3.8 ^{+0.7} _{-0.7}	77 ⁺¹⁹ ₋₁₉	1169	13.25 ^{+0.10} _{-0.10}	50.23 ^{+0.07} _{-0.07}	5.68E+37	7.98E+34
1976	58727.996301096	563.5 ^{+1.2} _{-1.2}	4.5 ^{+1.5} _{-1.5}	59 ⁺²⁵ ₋₂₅	1080	8.47 ^{+0.06} _{-0.06}	38.15 ^{+0.10} _{-0.10}	4.31E+37	1.09E+35
1977	58727.996434656	564.0 ^{+0.6} _{-0.6}	5.5 ^{+0.9} _{-0.9}	124 ⁺⁷⁵ ₋₇₅	1295	11.26 ^{+0.08} _{-0.08}	62.03 ^{+0.07} _{-0.07}	7.01E+37	8.47E+34
1978	58727.996848685	564.2 ^{+1.2} _{-1.2}	3.3 ^{+0.7} _{-0.7}	87 ⁺³⁸ ₋₃₈	1345	14.16 ^{+0.11} _{-0.11}	47.30 ^{+0.07} _{-0.07}	5.35E+37	8.19E+34
1979	58727.997602058	563.5 ^{+1.1} _{-1.1}	6.5 ^{+0.9} _{-0.9}	72 ⁺⁴¹ ₋₄₁	1412	4.98 ^{+0.04} _{-0.04}	32.24 ^{+0.27} _{-0.27}	3.45E+37	2.93E+35
1980	58727.997695489	563.2 ^{+1.2} _{-1.2}	4.8 ^{+1.1} _{-1.1}	141 ⁺³⁸ ₋₃₈	1380	12.27 ^{+0.09} _{-0.09}	58.53 ^{+0.10} _{-0.10}	6.61E+37	1.13E+35
1981	58727.997902410	563.2 ^{+1.1} _{-1.1}	3.8 ^{+1.5} _{-1.5}	83 ⁺⁴ ₋₄	1385	7.62 ^{+0.06} _{-0.06}	29.20 ^{+0.09} _{-0.09}	3.30E+37	9.91E+34
1982	58727.998576784	564.0 ^{+0.9} _{-0.9}	11.0 ^{+1.5} _{-1.5}	154 ⁺⁵⁹ ₋₅₉	1331	27.66 ^{+3.05} _{-3.05}	305.09 ^{+4.51} _{-4.51}	3.27E+38	4.83E+36
1983	58727.999348807	564.2 ^{+0.8} _{-0.8}	6.1 ^{+1.7} _{-1.7}	97 ⁺⁵⁶ ₋₅₆	1103	9.90 ^{+0.07} _{-0.07}	60.60 ^{+0.13} _{-0.13}	6.85E+37	1.46E+35
1984	58727.999350274	563.8 ^{+1.2} _{-1.2}	5.0 ^{+1.0} _{-1.0}	85 ⁺¹³ ₋₁₃	1216	16.40 ^{+0.12} _{-0.12}	81.56 ^{+0.12} _{-0.12}	9.22E+37	1.32E+35
1985	58727.999670284	563.9 ^{+1.2} _{-1.2}	3.5 ^{+1.1} _{-1.1}	140 ⁺⁵⁷ ₋₅₇	1170	8.55 ^{+0.06} _{-0.06}	30.25 ^{+0.07} _{-0.07}	3.42E+37	8.15E+34
1986	58728.000017391	563.5 ^{+1.1} _{-1.1}	1.6 ^{+0.7} _{-0.7}	200 ⁺²⁴ ₋₂₄	1175	5.31 ^{+0.04} _{-0.04}	8.53 ^{+0.03} _{-0.03}	9.64E+36	3.27E+34
1987	58728.000056727	563.6 ^{+1.2} _{-1.2}	2.9 ^{+1.6} _{-1.6}	77 ⁺¹⁵ ₋₁₅	1416	4.88 ^{+0.04} _{-0.04}	14.39 ^{+0.06} _{-0.06}	1.63E+37	6.82E+34
1988	58728.000395831	564.6 ^{+1.2} _{-1.2}	2.4 ^{+0.5} _{-0.5}	94 ⁺²⁸ ₋₂₈	1359	9.85 ^{+0.07} _{-0.07}	23.61 ^{+0.04} _{-0.04}	2.67E+37	4.65E+34
1989	58728.000533716	563.9 ^{+0.6} _{-0.6}	3.5 ^{+0.5} _{-0.5}	109 ⁺²² ₋₂₂	1249	48.82 ^{+5.40} _{-5.40}	170.87 ^{+2.48} _{-2.48}	1.83E+38	2.66E+36
1990	58728.001201490	562.5 ^{+0.8} _{-0.8}	1.8 ^{+0.5} _{-0.5}	65 ⁺³⁹ ₋₃₉	1118	11.69 ^{+0.09} _{-0.09}	21.56 ^{+0.04} _{-0.04}	2.44E+37	4.79E+34
1991	58728.002181681	562.4 ^{+0.5} _{-0.5}	2.7 ^{+1.2} _{-1.2}	46 ⁺⁸ ₋₈	1411	5.57 ^{+0.04} _{-0.04}	14.97 ^{+0.05} _{-0.05}	1.69E+37	5.76E+34
1992	58728.002342351	566.2 ^{+0.6} _{-0.6}	4.2 ^{+0.2} _{-0.2}	229 ⁺²⁸ ₋₂₈	1373	94.36 ^{+4.69} _{-4.69}	394.42 ^{+1.13} _{-1.13}	4.22E+38	1.20E+36
1993	58728.002400194	561.9 ^{+0.1} _{-0.1}	1.8 ^{+0.3} _{-0.3}	65 ⁺¹⁵ ₋₁₅	1450	74.30 ^{+10.64} _{-10.64}	134.48 ^{+2.87} _{-2.87}	1.44E+38	3.08E+36
1994	58728.002400234	561.9 ^{+0.1} _{-0.1}	4.7 ^{+0.3} _{-0.3}	422 ⁺⁷ ₋₇	1217	153.40 ^{+4.61} _{-4.61}	719.45 ^{+1.34} _{-1.34}	7.70E+38	1.43E+36
1995	58728.002474655	563.6 ^{+0.5} _{-0.5}	2.0 ^{+0.3} _{-0.3}	113 ⁺²⁹ ₋₂₉	1168	19.80 ^{+0.15} _{-0.15}	40.39 ^{+0.05} _{-0.05}	4.56E+37	5.87E+34
1996	58728.003124676	563.5 ^{+1.2} _{-1.2}	3.4 ^{+0.4} _{-0.4}	119 ⁺⁵⁰ ₋₅₀	1338	48.17 ^{+5.34} _{-5.34}	162.81 ^{+2.40} _{-2.40}	1.74E+38	2.57E+36
1997	58728.004386157	562.7 ^{+1.2} _{-1.2}	3.1 ^{+0.6} _{-0.6}	47 ⁺¹⁶ ₋₁₆	1342	11.40 ^{+0.09} _{-0.09}	34.87 ^{+0.05} _{-0.05}	3.94E+37	6.07E+34
1998	58728.004679995	564.1 ^{+0.3} _{-0.3}	3.0 ^{+1.3} _{-1.3}	66 ⁺³ ₋₃	1105	9.94 ^{+0.08} _{-0.08}	29.73 ^{+0.10} _{-0.10}	3.36E+37	1.17E+35
1999	58728.005053556	562.3 ^{+0.7} _{-0.7}	4.2 ^{+1.6} _{-1.6}	139 ⁺⁷ ₋₇	1321	6.78 ^{+0.05} _{-0.05}	28.58 ^{+0.08} _{-0.08}	3.23E+37	9.35E+34
2000	58728.005356347	564.1 ^{+1.1} _{-1.1}	2.7 ^{+1.5} _{-1.5}	145 ⁺⁴ ₋₄	1315	4.08 ^{+0.03} _{-0.03}	10.86 ^{+0.05} _{-0.05}	1.23E+37	5.57E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2001	58728.005620459	562.9 ^{+1.5} _{-1.5}	6.2 ^{+1.3} _{-1.3}	55 ⁺²² ₋₂₂	1409	9.14 ^{+0.07} _{-0.07}	57.01 ^{+0.09} _{-0.09}	6.44E+37	1.06E+35
2002	58728.005675204	563.6 ^{+0.6} _{-0.6}	3.2 ^{+0.4} _{-0.4}	247 ⁺²⁷ ₋₂₇	1366	20.13 ^{+0.16} _{-0.16}	65.02 ^{+0.06} _{-0.06}	7.35E+37	7.14E+34
2003	58728.005756670	563.8 ^{+1.2} _{-1.2}	4.7 ^{+1.6} _{-1.6}	61 ⁺⁶ ₋₆	1429	8.46 ^{+0.07} _{-0.07}	39.99 ^{+0.10} _{-0.10}	4.52E+37	1.16E+35
2004	58728.005757847	564.2 ^{+1.2} _{-1.2}	16.6 ^{+1.3} _{-1.3}	175 ⁺¹⁴ ₋₁₄	1253	39.37 ^{+2.54} _{-2.54}	652.36 ^{+3.38} _{-3.38}	6.98E+38	3.62E+36
2005	58728.006035903	563.5 ^{+1.3} _{-1.3}	5.1 ^{+1.6} _{-1.6}	55 ⁺²⁸ ₋₂₈	1394	8.29 ^{+0.07} _{-0.07}	42.12 ^{+0.11} _{-0.11}	4.76E+37	1.21E+35
2006	58728.007376659	563.3 ^{+1.1} _{-1.1}	3.9 ^{+1.0} _{-1.0}	48 ⁺¹⁵ ₋₁₅	1430	9.25 ^{+0.07} _{-0.07}	36.41 ^{+0.07} _{-0.07}	4.11E+37	8.31E+34
2007	58728.007478716	563.2 ^{+1.1} _{-1.1}	2.7 ^{+0.8} _{-0.8}	63 ⁺²⁵ ₋₂₅	1176	9.15 ^{+0.07} _{-0.07}	24.51 ^{+0.06} _{-0.06}	2.77E+37	6.85E+34
2008	58728.007527196	562.4 ^{+0.1} _{-0.1}	5.9 ^{+0.3} _{-0.3}	474 ⁺¹³ ₋₁₃	1246	107.36 ^{+4.02} _{-4.02}	636.64 ^{+1.09} _{-1.09}	6.82E+38	1.16E+36
2009	58728.007677530	563.6 ^{+1.3} _{-1.3}	3.8 ^{+1.7} _{-1.7}	61 ⁺¹⁴ ₋₁₄	1373	7.08 ^{+0.06} _{-0.06}	26.80 ^{+0.10} _{-0.10}	3.03E+37	1.09E+35
2010	58728.007826144	563.2 ^{+1.2} _{-1.2}	3.9 ^{+1.1} _{-1.1}	66 ⁺⁴ ₋₄	1339	7.86 ^{+0.06} _{-0.06}	30.52 ^{+0.07} _{-0.07}	3.45E+37	8.00E+34
2011	58728.008379251	562.5 ^{+1.1} _{-1.1}	4.9 ^{+2.1} _{-2.1}	84 ⁺²⁹ ₋₂₉	1161	7.03 ^{+0.06} _{-0.06}	34.50 ^{+0.12} _{-0.12}	3.90E+37	1.35E+35
2012	58728.008764741	563.0 ^{+0.8} _{-0.8}	4.3 ^{+1.8} _{-1.8}	51 ⁺⁴ ₋₄	1432	6.91 ^{+0.06} _{-0.06}	29.68 ^{+0.10} _{-0.10}	3.35E+37	1.14E+35
2013	58728.008773346	562.9 ^{+1.2} _{-1.2}	4.6 ^{+1.4} _{-1.4}	135 ⁺⁷³ ₋₇₃	1217	8.04 ^{+0.07} _{-0.07}	37.10 ^{+0.09} _{-0.09}	4.19E+37	1.00E+35
2014	58728.008906565	562.6 ^{+0.7} _{-0.7}	3.2 ^{+2.2} _{-2.2}	115 ⁺⁴ ₋₄	1183	5.69 ^{+0.05} _{-0.05}	18.03 ^{+0.10} _{-0.10}	2.04E+37	1.12E+35
2015	58728.008906696	562.8 ^{+1.1} _{-1.1}	4.9 ^{+2.1} _{-2.1}	114 ⁺⁵⁹ ₋₅₉	1122	8.78 ^{+0.07} _{-0.07}	42.69 ^{+0.14} _{-0.14}	4.82E+37	1.62E+35
2016	58728.008908926	562.6 ^{+1.2} _{-1.2}	7.6 ^{+2.0} _{-2.0}	132 ⁺⁸ ₋₈	1089	11.87 ^{+0.10} _{-0.10}	90.50 ^{+0.19} _{-0.19}	1.02E+38	2.18E+35
2017	58728.009383440	562.8 ^{+1.3} _{-1.3}	5.2 ^{+3.0} _{-3.0}	206 ⁺¹⁵² ₋₁₅₂	1180	6.06 ^{+0.05} _{-0.05}	31.43 ^{+0.15} _{-0.15}	3.55E+37	1.64E+35
2018	58728.010309403	563.9 ^{+0.8} _{-0.8}	2.6 ^{+0.5} _{-0.5}	45 ⁺¹⁶ ₋₁₆	1105	13.10 ^{+0.11} _{-0.11}	34.28 ^{+0.06} _{-0.06}	3.87E+37	6.28E+34
2019	58728.011700011	563.7 ^{+1.0} _{-1.0}	1.9 ^{+0.8} _{-0.8}	69 ⁺³⁹ ₋₃₉	1361	7.54 ^{+0.06} _{-0.06}	14.42 ^{+0.05} _{-0.05}	1.63E+37	5.88E+34
2020	58728.011919568	564.2 ^{+0.9} _{-0.9}	6.2 ^{+2.5} _{-2.5}	66 ⁺³⁷ ₋₃₇	1308	6.34 ^{+0.05} _{-0.05}	39.42 ^{+0.13} _{-0.13}	4.45E+37	1.48E+35
2021	58728.012202703	563.2 ^{+1.1} _{-1.1}	3.9 ^{+1.3} _{-1.3}	71 ⁺³⁶ ₋₃₆	1394	9.56 ^{+0.08} _{-0.08}	37.63 ^{+0.10} _{-0.10}	4.25E+37	1.16E+35
2022	58728.012207591	564.2 ^{+0.6} _{-0.6}	2.4 ^{+0.5} _{-0.5}	76 ⁺¹⁸ ₋₁₈	1401	12.48 ^{+0.10} _{-0.10}	29.80 ^{+0.05} _{-0.05}	3.37E+37	5.74E+34
2023	58728.012398781	562.5 ^{+1.2} _{-1.2}	1.8 ^{+0.7} _{-0.7}	50 ⁺⁴ ₋₄	1407	10.48 ^{+0.09} _{-0.09}	18.89 ^{+0.06} _{-0.06}	2.14E+37	6.80E+34
2024	58728.012807996	563.2 ^{+1.3} _{-1.3}	3.6 ^{+1.1} _{-1.1}	191 ⁺¹⁰⁷ ₋₁₀₇	1160	8.44 ^{+0.07} _{-0.07}	30.55 ^{+0.08} _{-0.08}	3.45E+37	8.70E+34
2025	58728.012930206	563.7 ^{+1.0} _{-1.0}	2.9 ^{+0.7} _{-0.7}	66 ⁺²³ ₋₂₃	1378	11.81 ^{+0.10} _{-0.10}	34.74 ^{+0.06} _{-0.06}	3.93E+37	7.28E+34
2026	58728.013341043	563.6 ^{+0.7} _{-0.7}	8.9 ^{+1.1} _{-1.1}	119 ⁺²⁴ ₋₂₄	1371	32.19 ^{+3.45} _{-3.45}	286.49 ^{+3.86} _{-3.86}	3.07E+38	4.14E+36
2027	58728.013416087	563.4 ^{+1.1} _{-1.1}	2.1 ^{+0.8} _{-0.8}	44 ⁺⁹ ₋₉	1416	6.31 ^{+0.05} _{-0.05}	13.20 ^{+0.04} _{-0.04}	1.49E+37	4.69E+34
2028	58728.013586861	562.1 ^{+0.8} _{-0.8}	4.6 ^{+1.3} _{-1.3}	102 ⁺¹²⁷ ₋₁₂₇	1092	11.21 ^{+0.09} _{-0.09}	51.38 ^{+0.12} _{-0.12}	5.81E+37	1.36E+35
2029	58728.013644897	563.7 ^{+0.9} _{-0.9}	3.2 ^{+1.9} _{-1.9}	48 ⁺³ ₋₃	1382	5.14 ^{+0.04} _{-0.04}	16.43 ^{+0.08} _{-0.08}	1.86E+37	9.32E+34
2030	58728.013645082	563.4 ^{+1.2} _{-1.2}	1.8 ^{+1.3} _{-1.3}	56 ⁺⁶ ₋₆	1421	4.52 ^{+0.04} _{-0.04}	8.03 ^{+0.05} _{-0.05}	9.08E+36	5.52E+34
2031	58728.013645595	561.7 ^{+0.3} _{-0.3}	5.0 ^{+3.3} _{-3.3}	47 ⁺³ ₋₃	1417	5.02 ^{+0.04} _{-0.04}	24.96 ^{+0.14} _{-0.14}	2.82E+37	1.57E+35
2032	58728.013922087	564.1 ^{+1.0} _{-1.0}	3.0 ^{+1.4} _{-1.4}	64 ⁺⁷ ₋₇	1075	7.58 ^{+0.06} _{-0.06}	22.73 ^{+0.09} _{-0.09}	2.57E+37	9.87E+34
2033	58728.014004171	564.3 ^{+0.6} _{-0.6}	2.1 ^{+0.7} _{-0.7}	140 ⁺⁴⁹ ₋₄₉	1397	9.25 ^{+0.08} _{-0.08}	19.82 ^{+0.06} _{-0.06}	2.24E+37	6.50E+34
2034	58728.014786784	563.9 ^{+1.0} _{-1.0}	1.4 ^{+0.3} _{-0.3}	85 ⁺¹⁶ ₋₁₆	1142	11.69 ^{+0.10} _{-0.10}	16.39 ^{+0.03} _{-0.03}	1.85E+37	3.52E+34
2035	58728.015285838	563.1 ^{+1.3} _{-1.3}	5.4 ^{+0.8} _{-0.8}	65 ⁺¹⁶ ₋₁₆	1105	4.57 ^{+0.04} _{-0.04}	24.79 ^{+0.24} _{-0.24}	2.65E+37	2.59E+35
2036	58728.015411226	564.6 ^{+1.0} _{-1.0}	4.1 ^{+0.4} _{-0.4}	89 ⁺¹¹ ₋₁₁	1446	53.74 ^{+4.88} _{-4.88}	218.18 ^{+2.10} _{-2.10}	2.34E+38	2.25E+36
2037	58728.015411276	564.6 ^{+1.0} _{-1.0}	4.7 ^{+0.7} _{-0.7}	117 ⁺³⁶ ₋₃₆	1335	15.85 ^{+0.13} _{-0.13}	74.79 ^{+0.72} _{-0.72}	8.01E+37	7.69E+35
2038	58728.015411330	564.6 ^{+1.0} _{-1.0}	2.7 ^{+0.5} _{-0.5}	91 ⁺²⁴ ₋₂₄	1364	38.91 ^{+5.93} _{-5.93}	104.28 ^{+2.91} _{-2.91}	1.12E+38	3.11E+36
2039	58728.015623964	564.9 ^{+0.6} _{-0.6}	6.5 ^{+1.6} _{-1.6}	71 ⁺⁴⁴ ₋₄₄	1282	13.51 ^{+0.12} _{-0.12}	87.29 ^{+0.18} _{-0.18}	9.86E+37	2.07E+35
2040	58728.015759274	565.0 ^{+0.6} _{-0.6}	8.0 ^{+1.2} _{-1.2}	193 ⁺³⁷ ₋₃₇	1296	5.44 ^{+0.05} _{-0.05}	43.39 ^{+0.42} _{-0.42}	4.65E+37	4.50E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2041	58728.016080931	562.2 ^{+1.1} _{-1.1}	8.2 ^{+2.7} _{-2.7}	120 ⁺³² ₋₃₂	1172	7.73 ^{+0.07} _{-0.07}	63.30 ^{+0.18} _{-0.18}	7.15E+37	2.04E+35
2042	58728.016159413	563.7 ^{+0.9} _{-0.9}	6.6 ^{+4.6} _{-4.6}	28 ⁺⁵ ₋₅	1462	5.23 ^{+0.04} _{-0.04}	34.41 ^{+0.21} _{-0.21}	3.89E+37	2.33E+35
2043	58728.017767903	562.6 ^{+0.9} _{-0.9}	4.2 ^{+1.4} _{-1.4}	183 ⁺⁴⁸ ₋₄₈	1195	12.03 ^{+0.10} _{-0.10}	50.08 ^{+0.14} _{-0.14}	5.66E+37	1.61E+35
2044	58728.017944797	564.3 ^{+0.8} _{-0.8}	4.3 ^{+1.5} _{-1.5}	81 ⁺²⁵ ₋₂₅	1110	10.03 ^{+0.09} _{-0.09}	43.57 ^{+0.13} _{-0.13}	4.92E+37	1.52E+35
2045	58728.018197437	562.5 ^{+1.3} _{-1.3}	2.1 ^{+1.2} _{-1.2}	50 ⁺⁵ ₋₅	1376	6.77 ^{+0.06} _{-0.06}	14.38 ^{+0.07} _{-0.07}	1.63E+37	8.09E+34
2046	58728.018954643	562.8 ^{+1.2} _{-1.2}	4.9 ^{+3.5} _{-3.5}	53 ⁺³ ₋₃	1094	5.21 ^{+0.04} _{-0.04}	25.39 ^{+0.16} _{-0.16}	2.87E+37	1.79E+35
2047	58728.019896218	563.3 ^{+1.2} _{-1.2}	3.8 ^{+1.5} _{-1.5}	56 ⁺³ ₋₃	1079	5.73 ^{+0.05} _{-0.05}	22.02 ^{+0.07} _{-0.07}	2.49E+37	8.32E+34
2048	58728.020209611	562.5 ^{+1.2} _{-1.2}	3.0 ^{+1.2} _{-1.2}	47 ⁺³ ₋₃	1383	12.02 ^{+0.11} _{-0.11}	36.47 ^{+0.13} _{-0.13}	4.12E+37	1.47E+35
2049	58728.020339273	563.3 ^{+1.5} _{-1.5}	4.5 ^{+1.5} _{-1.5}	152 ⁺⁷ ₋₇	1347	11.57 ^{+0.10} _{-0.10}	52.60 ^{+0.16} _{-0.16}	5.94E+37	1.78E+35
2050	58728.021625739	563.6 ^{+0.0} _{-0.0}	3.7 ^{+0.0} _{-0.0}	227 ⁺³⁷ ₋₃₇	1386	711.80 ^{+5.97} _{-5.97}	2640.78 ^{+0.24} _{-0.24}	2.83E+39	2.56E+35
2051	58728.022299163	564.6 ^{+1.3} _{-1.3}	2.8 ^{+0.4} _{-0.4}	118 ⁺⁴ ₋₄	1321	10.48 ^{+0.09} _{-0.09}	29.43 ^{+0.30} _{-0.30}	3.15E+37	3.23E+35
2052	58728.022327452	563.1 ^{+1.2} _{-1.2}	5.5 ^{+1.2} _{-1.2}	88 ⁺³⁸ ₋₃₈	1371	16.04 ^{+0.14} _{-0.14}	88.32 ^{+0.18} _{-0.18}	9.98E+37	1.99E+35
2053	58728.022497967	562.1 ^{+1.1} _{-1.1}	6.3 ^{+1.5} _{-1.5}	72 ⁺³ ₋₃	1071	14.22 ^{+0.13} _{-0.13}	89.04 ^{+0.19} _{-0.19}	1.01E+38	2.19E+35
2054	58728.022669750	564.0 ^{+1.2} _{-1.2}	5.7 ^{+0.8} _{-0.8}	39 ⁺³ ₋₃	1076	8.88 ^{+0.08} _{-0.08}	50.79 ^{+0.52} _{-0.52}	5.44E+37	5.54E+35
2055	58728.023919292	564.3 ^{+1.3} _{-1.3}	6.2 ^{+0.9} _{-0.9}	160 ⁺¹⁸ ₋₁₈	1129	9.49 ^{+0.09} _{-0.09}	58.84 ^{+0.61} _{-0.61}	6.30E+37	6.53E+35
2056	58728.023919628	561.1 ^{+1.1} _{-1.1}	8.5 ^{+1.8} _{-1.8}	229 ⁺⁷⁷ ₋₇₇	1204	11.45 ^{+0.10} _{-0.10}	96.82 ^{+0.19} _{-0.19}	1.09E+38	2.16E+35
2057	58728.024204348	564.6 ^{+0.7} _{-0.7}	4.3 ^{+1.2} _{-1.2}	155 ⁺⁸⁸ ₋₈₈	1251	11.51 ^{+0.10} _{-0.10}	49.88 ^{+0.13} _{-0.13}	5.64E+37	1.48E+35
2058	58728.024954638	562.9 ^{+1.1} _{-1.1}	2.3 ^{+0.6} _{-0.6}	58 ⁺⁴⁰ ₋₄₀	1091	7.17 ^{+0.07} _{-0.07}	16.27 ^{+0.04} _{-0.04}	1.84E+37	4.58E+34
2059	58728.025667911	561.5 ^{+0.8} _{-0.8}	6.9 ^{+0.7} _{-0.7}	231 ⁺⁶⁰ ₋₆₀	1297	22.48 ^{+0.21} _{-0.21}	156.13 ^{+0.15} _{-0.15}	1.76E+38	1.72E+35
2060	58728.025957979	561.9 ^{+0.3} _{-0.3}	6.9 ^{+1.0} _{-1.0}	189 ⁺⁴⁸ ₋₄₈	1278	11.43 ^{+0.11} _{-0.11}	78.75 ^{+0.84} _{-0.84}	8.43E+37	8.94E+35
2061	58728.025958028	561.9 ^{+0.3} _{-0.3}	6.7 ^{+0.6} _{-0.6}	155 ⁺³³ ₋₃₃	1094	50.73 ^{+3.96} _{-3.96}	339.38 ^{+2.42} _{-2.42}	3.63E+38	2.59E+36
2062	58728.026405849	564.1 ^{+0.9} _{-0.9}	10.2 ^{+1.6} _{-1.6}	68 ⁺⁴¹ ₋₄₁	1424	23.84 ^{+3.19} _{-3.19}	243.17 ^{+5.14} _{-5.14}	2.60E+38	5.50E+36
2063	58728.026830229	563.6 ^{+1.3} _{-1.3}	4.0 ^{+1.5} _{-1.5}	119 ⁺¹⁹ ₋₁₉	1325	5.45 ^{+0.05} _{-0.05}	21.73 ^{+0.08} _{-0.08}	2.46E+37	8.53E+34
2064	58728.026830603	563.5 ^{+1.0} _{-1.0}	5.0 ^{+1.4} _{-1.4}	124 ⁺⁴² ₋₄₂	1243	11.15 ^{+0.10} _{-0.10}	55.44 ^{+0.14} _{-0.14}	6.27E+37	1.62E+35
2065	58728.027261521	562.8 ^{+1.1} _{-1.1}	2.6 ^{+0.6} _{-0.6}	318 ⁺⁴ ₋₄	1276	11.98 ^{+0.11} _{-0.11}	30.95 ^{+0.06} _{-0.06}	3.50E+37	7.18E+34
2066	58728.027565485	564.7 ^{+0.7} _{-0.7}	8.5 ^{+1.2} _{-1.2}	39 ⁺⁶ ₋₆	1028	1.69 ^{+0.02} _{-0.02}	14.40 ^{+0.16} _{-0.16}	1.54E+37	1.67E+35
2067	58728.028501210	562.1 ^{+1.0} _{-1.0}	3.1 ^{+0.9} _{-0.9}	85 ⁺²⁴ ₋₂₄	1158	9.27 ^{+0.09} _{-0.09}	28.45 ^{+0.08} _{-0.08}	3.21E+37	9.02E+34
2068	58728.028949901	563.7 ^{+1.0} _{-1.0}	5.2 ^{+1.5} _{-1.5}	72 ⁺⁵ ₋₅	1423	10.05 ^{+0.10} _{-0.10}	51.87 ^{+0.14} _{-0.14}	5.86E+37	1.63E+35
2069	58728.029307146	563.8 ^{+1.3} _{-1.3}	5.4 ^{+2.2} _{-2.2}	97 ⁺⁴¹ ₋₄₁	1295	5.43 ^{+0.05} _{-0.05}	29.61 ^{+0.11} _{-0.11}	3.35E+37	1.28E+35
2070	58728.029381184	562.4 ^{+1.4} _{-1.4}	3.0 ^{+0.7} _{-0.7}	79 ⁺²² ₋₂₂	1385	9.62 ^{+0.09} _{-0.09}	28.69 ^{+0.06} _{-0.06}	3.24E+37	6.85E+34
2071	58728.029511166	563.5 ^{+2.5} _{-2.5}	5.5 ^{+2.0} _{-2.0}	152 ⁺³⁹ ₋₃₉	1340	7.12 ^{+0.07} _{-0.07}	39.28 ^{+0.14} _{-0.14}	4.44E+37	1.53E+35
2072	58728.030156239	563.3 ^{+1.3} _{-1.3}	8.9 ^{+3.2} _{-3.2}	53 ⁺¹⁶ ₋₁₆	1351	9.81 ^{+0.10} _{-0.10}	87.55 ^{+0.30} _{-0.30}	9.89E+37	3.44E+35
2073	58728.030208662	563.7 ^{+1.2} _{-1.2}	2.5 ^{+0.7} _{-0.7}	56 ⁺¹⁸ ₋₁₈	1354	10.84 ^{+0.10} _{-0.10}	26.90 ^{+0.07} _{-0.07}	3.04E+37	8.17E+34
2074	58728.030676679	562.9 ^{+0.7} _{-0.7}	2.4 ^{+0.8} _{-0.8}	75 ⁺²¹ ₋₂₁	1054	5.65 ^{+0.06} _{-0.06}	13.49 ^{+0.04} _{-0.04}	1.52E+37	5.07E+34
2075	58728.030797968	563.0 ^{+1.2} _{-1.2}	1.7 ^{+0.6} _{-0.6}	64 ⁺²⁸ ₋₂₈	1376	9.66 ^{+0.09} _{-0.09}	16.33 ^{+0.05} _{-0.05}	1.85E+37	5.83E+34
2076	58728.030798275	563.0 ^{+1.3} _{-1.3}	4.2 ^{+1.8} _{-1.8}	298 ⁺⁵ ₋₅	1282	5.48 ^{+0.05} _{-0.05}	23.00 ^{+0.10} _{-0.10}	2.60E+37	1.08E+35
2077	58728.030869810	564.1 ^{+0.1} _{-0.1}	2.8 ^{+0.1} _{-0.1}	346 ⁺³ ₋₃	1326	376.01 ^{+5.94} _{-5.94}	1060.35 ^{+0.36} _{-0.36}	1.14E+39	3.82E+35
2078	58728.030869816	564.1 ^{+0.1} _{-0.1}	2.8 ^{+0.4} _{-0.4}	443 ⁺⁴² ₋₄₂	1278	91.67 ^{+0.88} _{-0.88}	259.87 ^{+2.86} _{-2.86}	2.78E+38	3.06E+36
2079	58728.030871069	563.6 ^{+1.1} _{-1.1}	3.5 ^{+1.7} _{-1.7}	109 ⁺⁶³ ₋₆₃	1340	6.25 ^{+0.06} _{-0.06}	21.98 ^{+0.11} _{-0.11}	2.48E+37	1.20E+35
2080	58728.032327926	562.4 ^{+0.9} _{-0.9}	3.2 ^{+0.5} _{-0.5}	49 ⁺²¹ ₋₂₁	1417	5.23 ^{+0.05} _{-0.05}	16.57 ^{+0.19} _{-0.19}	1.77E+37	1.98E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2081	58728.032334353	563.1 ^{+1.2} _{-1.2}	6.5 ^{+1.6} _{-1.6}	83 ⁺³ ₋₃	1369	9.26 ^{+0.09} _{-0.09}	60.30 ^{+0.15} _{-0.15}	6.81E+37	1.69E+35
2082	58728.032954757	562.1 ^{+1.2} _{-1.2}	4.7 ^{+1.6} _{-1.6}	51 ⁺⁸ ₋₈	1410	7.66 ^{+0.07} _{-0.07}	35.88 ^{+0.12} _{-0.12}	4.05E+37	1.32E+35
2083	58728.032954904	562.4 ^{+1.3} _{-1.3}	8.1 ^{+6.2} _{-6.2}	70 ⁺⁴¹ ₋₄₁	1338	4.43 ^{+0.04} _{-0.04}	35.83 ^{+0.27} _{-0.27}	4.05E+37	3.04E+35
2084	58728.033174650	563.2 ^{+0.8} _{-0.8}	3.2 ^{+1.4} _{-1.4}	63 ⁺⁵ ₋₅	1335	4.73 ^{+0.05} _{-0.05}	15.29 ^{+0.07} _{-0.07}	1.73E+37	7.45E+34
2085	58728.033371760	563.8 ^{+0.9} _{-0.9}	3.9 ^{+1.0} _{-1.0}	180 ⁺⁴⁹ ₋₄₉	1236	10.89 ^{+0.11} _{-0.11}	42.57 ^{+0.10} _{-0.10}	4.81E+37	1.16E+35
2086	58728.033637819	562.2 ^{+0.5} _{-0.5}	4.3 ^{+0.7} _{-0.7}	146 ⁺²⁷ ₋₂₇	1320	14.57 ^{+0.14} _{-0.14}	62.78 ^{+0.10} _{-0.10}	7.09E+37	1.09E+35
2087	58728.033643424	562.8 ^{+0.9} _{-0.9}	6.7 ^{+1.5} _{-1.5}	162 ⁺³⁶ ₋₃₆	1407	12.85 ^{+0.13} _{-0.13}	86.19 ^{+0.19} _{-0.19}	9.74E+37	2.09E+35
2088	58728.033693964	562.2 ^{+1.0} _{-1.0}	2.8 ^{+1.6} _{-1.6}	78 ⁺²⁹ ₋₂₉	1400	4.77 ^{+0.05} _{-0.05}	13.33 ^{+0.07} _{-0.07}	1.51E+37	8.39E+34
2089	58728.035062144	564.3 ^{+1.0} _{-1.0}	7.1 ^{+3.5} _{-3.5}	46 ⁺¹⁴ ₋₁₄	1246	4.57 ^{+0.05} _{-0.05}	32.68 ^{+0.16} _{-0.16}	3.69E+37	1.80E+35
2090	58728.035215459	562.7 ^{+1.2} _{-1.2}	7.1 ^{+1.0} _{-1.0}	119 ⁺³¹ ₋₃₁	1262	9.45 ^{+0.10} _{-0.10}	66.71 ^{+0.10} _{-0.10}	7.54E+37	1.09E+35
2091	58728.035215793	562.4 ^{+1.1} _{-1.1}	5.0 ^{+1.1} _{-1.1}	179 ⁺⁷ ₋₇	1204	7.23 ^{+0.07} _{-0.07}	36.06 ^{+0.08} _{-0.08}	4.08E+37	9.29E+34
2092	58728.035254944	562.8 ^{+1.3} _{-1.3}	5.8 ^{+2.7} _{-2.7}	138 ⁺⁴⁹ ₋₄₉	1342	6.00 ^{+0.06} _{-0.06}	35.04 ^{+0.16} _{-0.16}	3.96E+37	1.82E+35
2093	58728.035256169	565.1 ^{+0.7} _{-0.7}	3.1 ^{+0.4} _{-0.4}	181 ⁺²⁷ ₋₂₇	1205	18.83 ^{+0.19} _{-0.19}	59.21 ^{+0.08} _{-0.08}	6.69E+37	8.82E+34
2094	58728.035433695	563.1 ^{+1.3} _{-1.3}	3.8 ^{+1.2} _{-1.2}	23 ⁺³³ ₋₃₃	1111	7.35 ^{+0.07} _{-0.07}	27.87 ^{+0.09} _{-0.09}	3.15E+37	9.88E+34
2095	58728.035461861	561.8 ^{+0.9} _{-0.9}	3.1 ^{+0.7} _{-0.7}	115 ⁺⁹⁰ ₋₉₀	1154	6.46 ^{+0.07} _{-0.07}	20.31 ^{+0.05} _{-0.05}	2.30E+37	5.49E+34
2096	58728.035568062	564.2 ^{+0.9} _{-0.9}	2.7 ^{+0.5} _{-0.5}	69 ⁺¹⁷ ₋₁₇	1360	9.77 ^{+0.10} _{-0.10}	26.25 ^{+0.05} _{-0.05}	2.97E+37	6.04E+34
2097	58728.036104607	560.5 ^{+0.6} _{-0.6}	6.7 ^{+3.4} _{-3.4}	60 ⁺¹⁵ ₋₁₅	1221	5.59 ^{+0.06} _{-0.06}	37.62 ^{+0.19} _{-0.19}	4.25E+37	2.17E+35
2098	58728.036424577	564.1 ^{+0.4} _{-0.4}	12.2 ^{+4.1} _{-4.1}	238 ⁺³⁴ ₋₃₄	1376	10.84 ^{+0.11} _{-0.11}	132.26 ^{+0.45} _{-0.45}	1.49E+38	5.14E+35
2099	58728.036487446	562.5 ^{+1.1} _{-1.1}	4.6 ^{+0.9} _{-0.9}	229 ⁺⁵ ₋₅	1312	8.32 ^{+0.08} _{-0.08}	38.39 ^{+0.07} _{-0.07}	4.34E+37	8.16E+34
2100	58728.036972808	562.6 ^{+1.0} _{-1.0}	4.1 ^{+2.4} _{-2.4}	242 ⁺⁴³ ₋₄₃	1300	3.65 ^{+0.04} _{-0.04}	15.06 ^{+0.09} _{-0.09}	1.70E+37	1.00E+35
2101	58728.036972985	562.7 ^{+1.1} _{-1.1}	7.1 ^{+1.6} _{-1.6}	116 ⁺³⁹ ₋₃₉	1252	9.40 ^{+0.10} _{-0.10}	66.57 ^{+0.15} _{-0.15}	7.52E+37	1.72E+35
2102	58728.037600047	564.8 ^{+0.8} _{-0.8}	3.2 ^{+0.4} _{-0.4}	87 ⁺²³ ₋₂₃	1267	13.94 ^{+0.14} _{-0.14}	44.31 ^{+0.06} _{-0.06}	5.01E+37	6.67E+34
2103	58728.037709320	563.0 ^{+1.3} _{-1.3}	8.6 ^{+2.0} _{-2.0}	126 ⁺³⁷ ₋₃₇	1358	8.18 ^{+0.08} _{-0.08}	70.04 ^{+0.17} _{-0.17}	7.91E+37	1.88E+35
2104	58728.037778260	564.5 ^{+1.0} _{-1.0}	4.8 ^{+1.1} _{-1.1}	53 ⁺⁴ ₋₄	1423	10.81 ^{+0.11} _{-0.11}	52.21 ^{+0.12} _{-0.12}	5.90E+37	1.37E+35
2105	58728.037778402	563.4 ^{+1.1} _{-1.1}	1.6 ^{+0.8} _{-0.8}	96 ⁺³ ₋₃	1384	5.25 ^{+0.05} _{-0.05}	8.48 ^{+0.04} _{-0.04}	9.58E+36	4.64E+34
2106	58728.037778547	562.4 ^{+1.1} _{-1.1}	3.7 ^{+1.2} _{-1.2}	65 ⁺¹⁰ ₋₁₀	1408	7.66 ^{+0.08} _{-0.08}	28.46 ^{+0.10} _{-0.10}	3.22E+37	1.09E+35
2107	58728.037829519	565.1 ^{+0.5} _{-0.5}	3.3 ^{+0.7} _{-0.7}	88 ⁺⁷⁴ ₋₇₄	1127	9.47 ^{+0.10} _{-0.10}	31.00 ^{+0.07} _{-0.07}	3.50E+37	8.19E+34
2108	58728.037970782	564.5 ^{+0.5} _{-0.5}	7.6 ^{+1.2} _{-1.2}	95 ⁺³¹ ₋₃₁	1301	9.57 ^{+0.10} _{-0.10}	73.23 ^{+0.11} _{-0.11}	8.27E+37	1.28E+35
2109	58728.039196724	562.9 ^{+1.3} _{-1.3}	4.3 ^{+1.5} _{-1.5}	96 ⁺⁵ ₋₅	1393	6.24 ^{+0.07} _{-0.07}	26.94 ^{+0.10} _{-0.10}	3.04E+37	1.11E+35
2110	58728.039511409	564.2 ^{+0.6} _{-0.6}	4.8 ^{+1.8} _{-1.8}	285 ⁺²² ₋₂₂	1242	5.94 ^{+0.06} _{-0.06}	28.83 ^{+0.11} _{-0.11}	3.26E+37	1.25E+35
2111	58728.039511667	563.0 ^{+1.1} _{-1.1}	5.0 ^{+1.5} _{-1.5}	319 ⁺⁵ ₋₅	1281	8.34 ^{+0.09} _{-0.09}	41.88 ^{+0.13} _{-0.13}	4.73E+37	1.47E+35
2112	58728.039629260	564.4 ^{+0.5} _{-0.5}	3.9 ^{+1.1} _{-1.1}	161 ⁺⁵ ₋₅	1241	9.34 ^{+0.10} _{-0.10}	36.84 ^{+0.10} _{-0.10}	4.16E+37	1.16E+35
2113	58728.039690421	562.7 ^{+1.0} _{-1.0}	5.6 ^{+1.7} _{-1.7}	132 ⁺¹¹ ₋₁₁	1196	6.70 ^{+0.07} _{-0.07}	37.61 ^{+0.12} _{-0.12}	4.25E+37	1.33E+35
2114	58728.039728299	562.6 ^{+1.4} _{-1.4}	2.7 ^{+0.6} _{-0.6}	82 ⁺³⁶ ₋₃₆	1359	7.80 ^{+0.08} _{-0.08}	20.68 ^{+0.05} _{-0.05}	2.34E+37	5.94E+34
2115	58728.039757376	563.7 ^{+1.2} _{-1.2}	5.3 ^{+2.0} _{-2.0}	63 ⁺⁶⁸ ₋₆₈	1394	6.42 ^{+0.07} _{-0.07}	34.00 ^{+0.14} _{-0.14}	3.84E+37	1.53E+35
2116	58728.039954471	563.3 ^{+1.3} _{-1.3}	2.5 ^{+0.6} _{-0.6}	206 ⁺⁷ ₋₇	1256	8.87 ^{+0.09} _{-0.09}	22.55 ^{+0.06} _{-0.06}	2.55E+37	6.38E+34
2117	58728.040240456	564.0 ^{+1.1} _{-1.1}	4.3 ^{+1.2} _{-1.2}	171 ⁺¹⁰ ₋₁₀	1318	7.32 ^{+0.08} _{-0.08}	31.16 ^{+0.10} _{-0.10}	3.52E+37	1.08E+35
2118	58728.040516210	563.3 ^{+0.5} _{-0.5}	1.6 ^{+0.5} _{-0.5}	83 ⁺⁶ ₋₆	1388	6.21 ^{+0.07} _{-0.07}	10.19 ^{+0.03} _{-0.03}	1.15E+37	3.53E+34
2119	58728.040516563	563.3 ^{+1.1} _{-1.1}	2.9 ^{+2.2} _{-2.2}	98 ⁺⁸ ₋₈	1301	2.77 ^{+0.03} _{-0.03}	8.06 ^{+0.06} _{-0.06}	9.11E+36	7.34E+34
2120	58728.040547869	563.7 ^{+1.3} _{-1.3}	2.1 ^{+0.2} _{-0.2}	46 ⁺⁷ ₋₇	1344	19.59 ^{+0.20} _{-0.20}	40.30 ^{+0.04} _{-0.04}	4.55E+37	5.03E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2121	58728.041237871	563.9 ^{+0.8} _{-0.8}	5.9 ^{+1.5} _{-1.5}	126 ⁺⁵ ₋₅	1130	8.07 ^{+0.09} _{-0.09}	47.56 ^{+0.12} _{-0.12}	5.37E+37	1.40E+35
2122	58728.041701078	562.2 ^{+1.2} _{-1.2}	6.4 ^{+2.3} _{-2.3}	47 ⁺¹⁶ ₋₁₆	1414	5.85 ^{+0.06} _{-0.06}	37.21 ^{+0.15} _{-0.15}	4.21E+37	1.64E+35
2123	58728.041788776	563.8 ^{+0.9} _{-0.9}	1.8 ^{+0.4} _{-0.4}	65 ⁺¹⁶ ₋₁₆	1303	10.25 ^{+0.11} _{-0.11}	18.12 ^{+0.04} _{-0.04}	2.05E+37	4.48E+34
2124	58728.042007249	563.4 ^{+1.2} _{-1.2}	7.4 ^{+3.9} _{-3.9}	75 ⁺³¹ ₋₃₁	1382	4.78 ^{+0.05} _{-0.05}	35.43 ^{+0.20} _{-0.20}	4.00E+37	2.27E+35
2125	58728.042007773	562.9 ^{+1.3} _{-1.3}	3.0 ^{+1.0} _{-1.0}	83 ⁺²⁹ ₋₂₉	1339	5.50 ^{+0.06} _{-0.06}	16.58 ^{+0.06} _{-0.06}	1.87E+37	6.51E+34
2126	58728.043001456	562.6 ^{+1.2} _{-1.2}	2.5 ^{+0.7} _{-0.7}	52 ⁺⁶² ₋₆₂	1348	7.80 ^{+0.08} _{-0.08}	19.24 ^{+0.06} _{-0.06}	2.17E+37	7.00E+34
2127	58728.043692171	563.3 ^{+1.2} _{-1.2}	4.7 ^{+1.1} _{-1.1}	75 ⁺¹³ ₋₁₃	1086	6.19 ^{+0.07} _{-0.07}	28.92 ^{+0.07} _{-0.07}	3.27E+37	8.46E+34
2128	58728.043897245	563.0 ^{+0.5} _{-0.5}	3.9 ^{+0.8} _{-0.8}	99 ⁺⁶ ₋₆	1097	7.97 ^{+0.09} _{-0.09}	31.17 ^{+0.07} _{-0.07}	3.52E+37	7.79E+34
2129	58728.044109653	564.3 ^{+1.0} _{-1.0}	4.0 ^{+0.5} _{-0.5}	59 ⁺²³ ₋₂₃	1354	12.07 ^{+0.13} _{-0.13}	47.81 ^{+0.07} _{-0.07}	5.40E+37	7.92E+34
2130	58728.044268723	565.0 ^{+0.9} _{-0.9}	3.5 ^{+0.9} _{-0.9}	104 ⁺⁶ ₋₆	1293	8.13 ^{+0.09} _{-0.09}	28.40 ^{+0.08} _{-0.08}	3.21E+37	8.55E+34
2131	58728.044383854	562.8 ^{+1.2} _{-1.2}	4.3 ^{+0.8} _{-0.8}	94 ⁺²⁷ ₋₂₇	1378	11.64 ^{+0.13} _{-0.13}	50.17 ^{+0.09} _{-0.09}	5.67E+37	1.07E+35
2132	58728.044945448	562.3 ^{+1.3} _{-1.3}	2.4 ^{+0.4} _{-0.4}	190 ⁺⁵⁰ ₋₅₀	1353	10.79 ^{+0.12} _{-0.12}	25.95 ^{+0.05} _{-0.05}	2.93E+37	5.50E+34
2133	58728.045021089	563.8 ^{+1.1} _{-1.1}	4.1 ^{+0.6} _{-0.6}	52 ⁺¹⁰ ₋₁₀	1145	9.12 ^{+0.10} _{-0.10}	37.31 ^{+0.46} _{-0.46}	3.99E+37	4.91E+35
2134	58728.045468286	563.1 ^{+1.4} _{-1.4}	7.1 ^{+1.6} _{-1.6}	99 ⁺²⁶ ₋₂₆	1219	9.53 ^{+0.10} _{-0.10}	68.07 ^{+0.17} _{-0.17}	7.69E+37	1.90E+35
2135	58728.045490252	562.7 ^{+1.2} _{-1.2}	6.1 ^{+1.6} _{-1.6}	114 ⁺³⁵ ₋₃₅	1415	9.55 ^{+0.10} _{-0.10}	57.80 ^{+0.16} _{-0.16}	6.53E+37	1.83E+35
2136	58728.045491571	564.6 ^{+1.0} _{-1.0}	4.8 ^{+0.9} _{-0.9}	83 ⁺⁴ ₋₄	1342	12.24 ^{+0.13} _{-0.13}	59.30 ^{+0.11} _{-0.11}	6.70E+37	1.30E+35
2137	58728.045550466	563.7 ^{+0.8} _{-0.8}	4.2 ^{+0.6} _{-0.6}	87 ⁺¹⁶ ₋₁₆	1170	17.50 ^{+0.19} _{-0.19}	72.79 ^{+0.90} _{-0.90}	7.79E+37	9.68E+35
2138	58728.045589630	562.6 ^{+0.8} _{-0.8}	1.9 ^{+0.4} _{-0.4}	98 ⁺³¹ ₋₃₁	1399	11.75 ^{+0.13} _{-0.13}	21.78 ^{+0.05} _{-0.05}	2.46E+37	5.44E+34
2139	58728.046209024	563.2 ^{+1.4} _{-1.4}	3.8 ^{+0.8} _{-0.8}	33 ⁺⁴ ₋₄	1434	8.71 ^{+0.10} _{-0.10}	32.73 ^{+0.07} _{-0.07}	3.70E+37	8.14E+34
2140	58728.046950472	563.3 ^{+1.3} _{-1.3}	4.6 ^{+1.0} _{-1.0}	54 ⁺⁷ ₋₇	1429	7.74 ^{+0.09} _{-0.09}	35.92 ^{+0.08} _{-0.08}	4.06E+37	9.38E+34
2141	58728.047114132	563.7 ^{+0.9} _{-0.9}	2.8 ^{+0.7} _{-0.7}	103 ⁺⁴¹ ₋₄₁	1259	9.30 ^{+0.10} _{-0.10}	26.41 ^{+0.07} _{-0.07}	2.98E+37	8.19E+34
2142	58728.047728975	564.6 ^{+0.7} _{-0.7}	6.6 ^{+1.0} _{-1.0}	111 ⁺⁴⁷ ₋₄₇	1342	11.03 ^{+0.12} _{-0.12}	73.02 ^{+0.12} _{-0.12}	8.25E+37	1.32E+35
2143	58728.047866357	563.0 ^{+1.1} _{-1.1}	3.4 ^{+0.8} _{-0.8}	170 ⁺¹⁵ ₋₁₅	1207	8.83 ^{+0.10} _{-0.10}	30.16 ^{+0.08} _{-0.08}	3.41E+37	9.39E+34
2144	58728.047873435	564.6 ^{+0.5} _{-0.5}	2.5 ^{+0.4} _{-0.4}	74 ⁺³⁸ ₋₃₈	1329	9.75 ^{+0.11} _{-0.11}	24.45 ^{+0.04} _{-0.04}	2.76E+37	4.41E+34
2145	58728.047873646	564.2 ^{+0.6} _{-0.6}	3.3 ^{+0.5} _{-0.5}	184 ⁺⁴ ₋₄	1210	9.66 ^{+0.11} _{-0.11}	32.11 ^{+0.05} _{-0.05}	3.63E+37	6.02E+34
2146	58728.047947610	563.8 ^{+0.9} _{-0.9}	8.6 ^{+2.3} _{-2.3}	97 ⁺⁵⁴ ₋₅₄	1269	7.29 ^{+0.08} _{-0.08}	62.68 ^{+0.18} _{-0.18}	7.08E+37	2.07E+35
2147	58728.048215079	563.3 ^{+1.1} _{-1.1}	9.1 ^{+2.7} _{-2.7}	249 ⁺⁴ ₋₄	1258	7.72 ^{+0.09} _{-0.09}	69.89 ^{+0.23} _{-0.23}	7.90E+37	2.60E+35
2148	58728.048669567	563.1 ^{+1.2} _{-1.2}	3.3 ^{+0.8} _{-0.8}	109 ⁺⁷ ₋₇	1388	7.93 ^{+0.09} _{-0.09}	25.83 ^{+0.07} _{-0.07}	2.92E+37	7.66E+34
2149	58728.049740552	563.3 ^{+1.2} _{-1.2}	3.9 ^{+1.0} _{-1.0}	82 ⁺¹⁰ ₋₁₀	1313	7.38 ^{+0.08} _{-0.08}	28.60 ^{+0.08} _{-0.08}	3.23E+37	9.08E+34
2150	58728.050733699	564.8 ^{+0.0} _{-0.0}	2.6 ^{+0.0} _{-0.0}	497 ⁺¹ ₋₁	1251	575.29 ^{+6.51} _{-6.51}	1501.22 ^{+0.06} _{-0.06}	1.70E+39	6.63E+34
2151	58728.050760330	563.0 ^{+1.2} _{-1.2}	4.1 ^{+1.5} _{-1.5}	51 ⁺⁵ ₋₅	1418	5.38 ^{+0.06} _{-0.06}	21.95 ^{+0.09} _{-0.09}	2.48E+37	1.01E+35
2152	58728.051969997	562.0 ^{+0.5} _{-0.5}	2.6 ^{+0.7} _{-0.7}	42 ⁺²⁵ ₋₂₅	1362	5.14 ^{+0.06} _{-0.06}	13.20 ^{+0.04} _{-0.04}	1.49E+37	4.77E+34
2153	58728.052724871	563.8 ^{+0.8} _{-0.8}	3.8 ^{+0.5} _{-0.5}	98 ⁺²⁸ ₋₂₈	1127	13.47 ^{+0.15} _{-0.15}	50.73 ^{+0.08} _{-0.08}	5.73E+37	9.48E+34
2154	58728.053036024	561.1 ^{+0.6} _{-0.6}	2.9 ^{+0.4} _{-0.4}	191 ⁺¹⁵ ₋₁₅	1339	12.70 ^{+0.15} _{-0.15}	36.88 ^{+0.49} _{-0.49}	3.95E+37	5.19E+35
2155	58728.053771878	563.1 ^{+1.3} _{-1.3}	4.2 ^{+0.7} _{-0.7}	66 ⁺⁹ ₋₉	1346	13.12 ^{+0.15} _{-0.15}	54.88 ^{+0.11} _{-0.11}	6.20E+37	1.23E+35
2156	58728.054372993	562.8 ^{+1.1} _{-1.1}	3.4 ^{+0.5} _{-0.5}	96 ⁺⁴⁰ ₋₄₀	1262	11.06 ^{+0.13} _{-0.13}	37.32 ^{+0.07} _{-0.07}	4.22E+37	7.42E+34
2157	58728.055326240	562.6 ^{+0.8} _{-0.8}	5.7 ^{+1.8} _{-1.8}	129 ⁺¹¹⁵ ₋₁₁₅	1323	6.89 ^{+0.08} _{-0.08}	39.00 ^{+0.15} _{-0.15}	4.41E+37	1.67E+35
2158	58728.055399536	563.0 ^{+1.1} _{-1.1}	5.3 ^{+2.2} _{-2.2}	55 ⁺³³ ₋₃₃	1371	5.99 ^{+0.07} _{-0.07}	31.54 ^{+0.16} _{-0.16}	3.56E+37	1.77E+35
2159	58728.057019485	562.6 ^{+1.2} _{-1.2}	7.7 ^{+1.3} _{-1.3}	154 ⁺⁹ ₋₉	1299	10.01 ^{+0.12} _{-0.12}	76.91 ^{+0.15} _{-0.15}	8.69E+37	1.70E+35
2160	58728.057019935	564.1 ^{+1.1} _{-1.1}	3.7 ^{+0.8} _{-0.8}	98 ⁺²² ₋₂₂	1086	10.35 ^{+0.12} _{-0.12}	38.09 ^{+0.10} _{-0.10}	4.30E+37	1.08E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2161	58728.057584381	562.1 ^{+0.8} _{-0.8}	3.2 ^{+0.6} _{-0.6}	202 ⁺⁶ ₋₆	1345	10.83 ^{+0.13} _{-0.13}	34.71 ^{+0.08} _{-0.08}	3.92E+37	9.02E+34
2162	58728.057800726	563.6 ^{+1.2} _{-1.2}	5.4 ^{+1.3} _{-1.3}	123 ⁺⁸⁵ ₋₈₅	1296	6.64 ^{+0.08} _{-0.08}	35.98 ^{+0.10} _{-0.10}	4.07E+37	1.17E+35
2163	58728.057814195	564.9 ^{+0.6} _{-0.6}	7.6 ^{+1.1} _{-1.1}	151 ⁺⁷⁰ ₋₇₀	1165	11.77 ^{+0.14} _{-0.14}	89.79 ^{+1.22} _{-1.22}	9.61E+37	1.31E+36
2164	58728.057961188	560.6 ^{+0.2} _{-0.2}	9.3 ^{+0.4} _{-0.4}	281 ⁺⁷ ₋₇	1301	103.63 ^{+3.90} _{-3.90}	959.61 ^{+1.68} _{-1.68}	1.03E+39	1.80E+36
2165	58728.058538436	565.1 ^{+0.7} _{-0.7}	2.7 ^{+0.4} _{-0.4}	114 ⁺⁶⁵ ₋₆₅	1311	12.36 ^{+0.15} _{-0.15}	33.40 ^{+0.07} _{-0.07}	3.77E+37	7.39E+34
2166	58728.059287343	562.5 ^{+0.5} _{-0.5}	2.7 ^{+0.5} _{-0.5}	81 ⁺²² ₋₂₂	1418	13.00 ^{+0.16} _{-0.16}	35.25 ^{+0.08} _{-0.08}	3.98E+37	9.08E+34
2167	58728.059370447	564.5 ^{+0.8} _{-0.8}	4.0 ^{+0.6} _{-0.6}	56 ⁺³⁵ ₋₃₅	1360	12.27 ^{+0.15} _{-0.15}	49.64 ^{+0.09} _{-0.09}	5.61E+37	1.06E+35
2168	58728.060080898	562.9 ^{+0.0} _{-0.0}	5.0 ^{+0.1} _{-0.1}	451 ⁺⁷ ₋₇	1274	399.10 ^{+6.18} _{-6.18}	1999.49 ^{+0.56} _{-0.56}	2.14E+39	5.95E+35
2169	58728.060080899	562.9 ^{+0.0} _{-0.0}	5.3 ^{+0.8} _{-0.8}	85 ⁺¹⁰ ₋₁₀	1154	102.20 ^{+1.23} _{-1.23}	539.17 ^{+7.45} _{-7.45}	5.77E+38	7.97E+36
2170	58728.060081226	560.0 ^{+0.2} _{-0.2}	4.5 ^{+0.6} _{-0.6}	65 ⁺⁵³ ₋₅₃	1172	15.15 ^{+0.18} _{-0.18}	68.03 ^{+0.11} _{-0.11}	7.68E+37	1.20E+35
2171	58728.060281631	563.8 ^{+0.9} _{-0.9}	11.2 ^{+2.9} _{-2.9}	58 ⁺³⁶ ₋₃₆	1365	8.73 ^{+0.11} _{-0.11}	98.09 ^{+0.31} _{-0.31}	1.11E+38	3.50E+35
2172	58728.060630960	562.8 ^{+1.1} _{-1.1}	9.5 ^{+2.1} _{-2.1}	220 ⁺¹¹ ₋₁₁	1215	9.37 ^{+0.11} _{-0.11}	88.72 ^{+0.23} _{-0.23}	1.00E+38	2.65E+35
2173	58728.062107545	562.8 ^{+1.2} _{-1.2}	2.4 ^{+0.7} _{-0.7}	60 ⁺¹² ₋₁₂	1393	8.01 ^{+0.10} _{-0.10}	19.06 ^{+0.07} _{-0.07}	2.15E+37	7.80E+34
2174	58728.062662070	564.5 ^{+0.8} _{-0.8}	5.0 ^{+1.3} _{-1.3}	71 ⁺⁵ ₋₅	1426	8.71 ^{+0.11} _{-0.11}	43.46 ^{+0.14} _{-0.14}	4.91E+37	1.57E+35
2175	58728.062662493	563.4 ^{+1.1} _{-1.1}	2.0 ^{+0.7} _{-0.7}	167 ⁺⁷ ₋₇	1315	5.40 ^{+0.07} _{-0.07}	10.56 ^{+0.04} _{-0.04}	1.19E+37	5.04E+34
2176	58728.063292854	564.3 ^{+0.5} _{-0.5}	3.9 ^{+1.0} _{-1.0}	84 ⁺²⁵ ₋₂₅	1344	5.45 ^{+0.07} _{-0.07}	21.03 ^{+0.06} _{-0.06}	2.38E+37	7.34E+34
2177	58728.063798360	561.9 ^{+1.0} _{-1.0}	5.4 ^{+1.1} _{-1.1}	151 ⁺¹⁰⁹ ₋₁₀₉	1276	8.06 ^{+0.10} _{-0.10}	43.46 ^{+0.11} _{-0.11}	4.91E+37	1.24E+35
2178	58728.065008671	563.5 ^{+1.3} _{-1.3}	2.5 ^{+0.5} _{-0.5}	86 ⁺²³ ₋₂₃	1383	11.63 ^{+0.15} _{-0.15}	29.36 ^{+0.07} _{-0.07}	3.32E+37	8.35E+34
2179	58728.065097153	563.7 ^{+1.1} _{-1.1}	3.3 ^{+0.4} _{-0.4}	91 ⁺¹⁹ ₋₁₉	1206	21.31 ^{+0.27} _{-0.27}	70.27 ^{+0.09} _{-0.09}	7.94E+37	1.07E+35
2180	58728.065980801	563.7 ^{+0.7} _{-0.7}	3.1 ^{+0.5} _{-0.5}	55 ⁺¹⁶ ₋₁₆	1382	10.59 ^{+0.13} _{-0.13}	32.32 ^{+0.07} _{-0.07}	3.65E+37	8.18E+34
2181	58728.066086200	563.1 ^{+1.5} _{-1.5}	3.2 ^{+0.7} _{-0.7}	76 ⁺¹⁸ ₋₁₈	1130	10.34 ^{+0.13} _{-0.13}	33.30 ^{+0.09} _{-0.09}	3.76E+37	1.02E+35
2182	58728.066390059	564.4 ^{+0.6} _{-0.6}	4.5 ^{+1.1} _{-1.1}	108 ⁺³⁰ ₋₃₀	1409	9.35 ^{+0.12} _{-0.12}	41.73 ^{+0.13} _{-0.13}	4.72E+37	1.43E+35
2183	58728.066480808	563.7 ^{+1.2} _{-1.2}	6.1 ^{+1.8} _{-1.8}	68 ⁺³⁴ ₋₃₄	1370	7.50 ^{+0.10} _{-0.10}	45.96 ^{+0.17} _{-0.17}	5.19E+37	1.92E+35
2184	58728.067471702	564.4 ^{+1.2} _{-1.2}	4.5 ^{+1.2} _{-1.2}	49 ⁺⁴ ₋₄	1333	7.61 ^{+0.10} _{-0.10}	34.35 ^{+0.12} _{-0.12}	3.88E+37	1.30E+35
2185	58728.068248512	564.3 ^{+0.7} _{-0.7}	3.2 ^{+0.8} _{-0.8}	179 ⁺⁴⁵ ₋₄₅	1333	12.13 ^{+0.16} _{-0.16}	38.88 ^{+0.13} _{-0.13}	4.39E+37	1.43E+35
2186	58728.068278383	564.2 ^{+1.2} _{-1.2}	3.4 ^{+0.6} _{-0.6}	151 ⁺³⁴ ₋₃₄	1245	17.28 ^{+0.22} _{-0.22}	59.06 ^{+0.14} _{-0.14}	6.67E+37	1.53E+35
2187	58728.068421740	566.0 ^{+0.9} _{-0.9}	2.1 ^{+0.3} _{-0.3}	104 ⁺²⁷ ₋₂₇	1355	27.76 ^{+0.36} _{-0.36}	57.71 ^{+0.85} _{-0.85}	6.18E+37	9.06E+35
2188	58728.068421741	566.0 ^{+0.9} _{-0.9}	1.8 ^{+0.2} _{-0.2}	218 ⁺¹² ₋₁₂	1299	131.45 ^{+9.94} _{-9.94}	233.98 ^{+1.49} _{-1.49}	2.50E+38	1.60E+36
2189	58728.069105334	563.3 ^{+1.0} _{-1.0}	4.3 ^{+1.3} _{-1.3}	267 ⁺³⁷ ₋₃₇	1296	8.77 ^{+0.08} _{-0.08}	38.09 ^{+0.11} _{-0.11}	4.30E+37	1.23E+35
2190	58728.069611793	561.9 ^{+1.3} _{-1.3}	10.6 ^{+4.4} _{-4.4}	318 ⁺⁴ ₋₄	1233	6.87 ^{+0.07} _{-0.07}	72.88 ^{+0.29} _{-0.29}	8.24E+37	3.32E+35
2191	58728.069763149	561.5 ^{+1.2} _{-1.2}	3.0 ^{+0.4} _{-0.4}	184 ⁺²⁴ ₋₂₄	1340	10.95 ^{+0.10} _{-0.10}	33.17 ^{+0.36} _{-0.36}	3.55E+37	3.90E+35
2192	58728.069878135	562.2 ^{+1.3} _{-1.3}	1.9 ^{+0.8} _{-0.8}	55 ⁺³⁶ ₋₃₆	1155	6.56 ^{+0.06} _{-0.06}	12.66 ^{+0.05} _{-0.05}	1.43E+37	5.94E+34
2193	58728.070424280	562.7 ^{+0.5} _{-0.5}	2.8 ^{+1.0} _{-1.0}	230 ⁺³⁸ ₋₃₈	1287	10.72 ^{+0.10} _{-0.10}	30.24 ^{+0.11} _{-0.11}	3.42E+37	1.21E+35
2194	58728.071133001	564.3 ^{+1.2} _{-1.2}	4.1 ^{+1.3} _{-1.3}	66 ⁺⁴ ₋₄	1362	9.07 ^{+0.09} _{-0.09}	36.87 ^{+0.12} _{-0.12}	4.17E+37	1.33E+35
2195	58728.072277546	561.9 ^{+0.9} _{-0.9}	3.6 ^{+2.0} _{-2.0}	90 ⁺⁴³ ₋₄₃	1382	5.69 ^{+0.06} _{-0.06}	20.50 ^{+0.11} _{-0.11}	2.32E+37	1.28E+35
2196	58728.072463162	563.0 ^{+1.5} _{-1.5}	6.0 ^{+1.8} _{-1.8}	65 ⁺²⁷ ₋₂₇	1348	15.09 ^{+0.15} _{-0.15}	89.93 ^{+0.27} _{-0.27}	1.02E+38	3.07E+35
2197	58728.072463837	563.4 ^{+1.1} _{-1.1}	3.0 ^{+1.7} _{-1.7}	78 ⁺⁹ ₋₉	1349	7.25 ^{+0.07} _{-0.07}	21.93 ^{+0.13} _{-0.13}	2.48E+37	1.43E+35
2198	58728.072631665	562.9 ^{+1.1} _{-1.1}	1.6 ^{+0.7} _{-0.7}	74 ⁺⁹ ₋₉	1420	10.15 ^{+0.10} _{-0.10}	16.24 ^{+0.07} _{-0.07}	1.83E+37	8.00E+34
2199	58728.072631919	561.8 ^{+1.4} _{-1.4}	6.4 ^{+2.7} _{-2.7}	90 ⁺³ ₋₃	1357	10.84 ^{+0.11} _{-0.11}	69.64 ^{+0.30} _{-0.30}	7.87E+37	3.41E+35
2200	58728.072946379	564.2 ^{+0.9} _{-0.9}	3.8 ^{+0.9} _{-0.9}	157 ⁺¹⁹ ₋₁₉	1397	17.80 ^{+0.18} _{-0.18}	67.94 ^{+0.17} _{-0.17}	7.68E+37	1.95E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2201	58728.072946518	564.2 ^{+0.8} _{-0.8}	3.3 ^{+1.9} _{-1.9}	333 ⁺³ ₋₃	1222	8.72 ^{+0.09} _{-0.09}	28.61 ^{+0.17} _{-0.17}	3.23E+37	1.88E+35
2202	58728.073241588	563.0 ^{+1.5} _{-1.5}	4.1 ^{+3.1} _{-3.1}	88 ⁺³⁶ ₋₃₆	1086	6.86 ^{+0.07} _{-0.07}	28.17 ^{+0.22} _{-0.22}	3.18E+37	2.51E+35
2203	58728.073882648	563.8 ^{+0.5} _{-0.5}	4.3 ^{+1.1} _{-1.1}	90 ⁺¹⁸ ₋₁₈	1094	17.27 ^{+0.18} _{-0.18}	73.69 ^{+0.20} _{-0.20}	8.33E+37	2.31E+35
2204	58728.074776517	564.1 ^{+0.9} _{-0.9}	7.6 ^{+3.4} _{-3.4}	96 ⁺⁴⁵ ₋₄₅	1352	6.85 ^{+0.07} _{-0.07}	52.43 ^{+0.24} _{-0.24}	5.92E+37	2.74E+35
2205	58728.075487499	563.0 ^{+0.7} _{-0.7}	1.4 ^{+0.8} _{-0.8}	101 ⁺⁷ ₋₇	1358	6.78 ^{+0.07} _{-0.07}	9.16 ^{+0.05} _{-0.05}	1.04E+37	6.21E+34
2206	58728.075553815	564.8 ^{+0.9} _{-0.9}	2.9 ^{+0.6} _{-0.6}	85 ⁺¹³ ₋₁₃	1289	9.49 ^{+0.10} _{-0.10}	27.84 ^{+0.06} _{-0.06}	3.15E+37	6.70E+34
2207	58728.075587546	563.8 ^{+1.2} _{-1.2}	2.6 ^{+0.9} _{-0.9}	53 ⁺³¹ ₋₃₁	1094	8.83 ^{+0.09} _{-0.09}	23.34 ^{+0.08} _{-0.08}	2.64E+37	9.26E+34
2208	58728.075728674	562.9 ^{+0.0} _{-0.0}	2.8 ^{+0.0} _{-0.0}	497 ⁺² ₋₂	1251	813.62 ^{+8.33} _{-8.33}	2302.54 ^{+0.33} _{-0.33}	2.46E+39	3.57E+35
2209	58728.075728684	562.9 ^{+0.0} _{-0.0}	2.9 ^{+0.4} _{-0.4}	494 ⁺³ ₋₃	1252	193.72 ^{+2.05} _{-2.05}	558.18 ^{+6.76} _{-6.76}	5.98E+38	7.24E+36
2210	58728.075846338	563.6 ^{+1.0} _{-1.0}	4.9 ^{+2.1} _{-2.1}	83 ⁺²⁹ ₋₂₉	1407	9.51 ^{+0.10} _{-0.10}	46.42 ^{+0.21} _{-0.21}	5.25E+37	2.37E+35
2211	58728.075854738	563.9 ^{+1.1} _{-1.1}	5.3 ^{+1.7} _{-1.7}	146 ⁺²² ₋₂₂	1334	10.12 ^{+0.11} _{-0.11}	53.13 ^{+0.19} _{-0.19}	6.00E+37	2.11E+35
2212	58728.075854889	563.3 ^{+1.2} _{-1.2}	2.9 ^{+1.6} _{-1.6}	90 ⁺⁴ ₋₄	1364	6.94 ^{+0.07} _{-0.07}	19.88 ^{+0.12} _{-0.12}	2.25E+37	1.37E+35
2213	58728.076017244	562.8 ^{+1.2} _{-1.2}	3.7 ^{+1.2} _{-1.2}	119 ⁺⁹⁰ ₋₉₀	1150	9.74 ^{+0.10} _{-0.10}	35.86 ^{+0.13} _{-0.13}	4.05E+37	1.47E+35
2214	58728.076998892	564.6 ^{+0.7} _{-0.7}	3.2 ^{+0.2} _{-0.2}	98 ⁺¹³ ₋₁₃	1362	123.68 ^{+7.50} _{-7.50}	399.49 ^{+1.58} _{-1.58}	4.28E+38	1.69E+36
2215	58728.077001238	563.2 ^{+1.2} _{-1.2}	11.4 ^{+2.2} _{-2.2}	141 ⁺¹⁴ ₋₁₄	1178	12.60 ^{+0.14} _{-0.14}	144.05 ^{+0.31} _{-0.31}	1.63E+38	3.45E+35
2216	58728.077528116	562.3 ^{+0.9} _{-0.9}	3.5 ^{+1.0} _{-1.0}	66 ⁺²⁷ ₋₂₇	1385	10.45 ^{+0.12} _{-0.12}	36.43 ^{+0.12} _{-0.12}	4.12E+37	1.33E+35
2217	58728.078300086	563.2 ^{+1.1} _{-1.1}	2.0 ^{+0.8} _{-0.8}	83 ⁺³ ₋₃	1384	8.37 ^{+0.09} _{-0.09}	16.79 ^{+0.08} _{-0.08}	1.90E+37	8.78E+34
2218	58728.078386167	563.1 ^{+1.2} _{-1.2}	3.5 ^{+0.3} _{-0.3}	85 ⁺¹⁹ ₋₁₉	1361	96.54 ^{+6.77} _{-6.77}	340.79 ^{+1.96} _{-1.96}	3.65E+38	2.10E+36
2219	58728.078792111	562.8 ^{+0.3} _{-0.3}	1.7 ^{+0.3} _{-0.3}	73 ⁺²⁴ ₋₂₄	1336	17.77 ^{+0.20} _{-0.20}	30.81 ^{+0.06} _{-0.06}	3.48E+37	6.52E+34
2220	58728.078874750	562.9 ^{+1.4} _{-1.4}	1.7 ^{+0.3} _{-0.3}	147 ⁺⁸¹ ₋₈₁	1187	19.21 ^{+0.21} _{-0.21}	32.33 ^{+0.06} _{-0.06}	3.65E+37	6.66E+34
2221	58728.079303709	565.2 ^{+0.8} _{-0.8}	3.8 ^{+0.8} _{-0.8}	120 ⁺³⁰ ₋₃₀	1420	15.51 ^{+0.17} _{-0.17}	59.20 ^{+0.13} _{-0.13}	6.69E+37	1.52E+35
2222	58728.079401387	563.2 ^{+1.1} _{-1.1}	5.0 ^{+1.8} _{-1.8}	69 ⁺³ ₋₃	1113	7.31 ^{+0.08} _{-0.08}	36.59 ^{+0.15} _{-0.15}	4.13E+37	1.72E+35
2223	58728.079849893	563.8 ^{+0.3} _{-0.3}	4.2 ^{+1.3} _{-1.3}	65 ⁺²¹ ₋₂₁	1289	12.22 ^{+0.14} _{-0.14}	51.31 ^{+0.17} _{-0.17}	5.80E+37	1.98E+35
2224	58728.080614605	563.2 ^{+0.1} _{-0.1}	2.4 ^{+0.2} _{-0.2}	472 ⁺³¹ ₋₃₁	1248	39.30 ^{+0.45} _{-0.45}	95.55 ^{+0.10} _{-0.10}	1.08E+38	1.15E+35
2225	58728.080751601	562.7 ^{+0.4} _{-0.4}	3.2 ^{+0.8} _{-0.8}	66 ⁺³ ₋₃	1395	6.50 ^{+0.07} _{-0.07}	20.65 ^{+0.06} _{-0.06}	2.33E+37	6.97E+34
2226	58728.082595644	561.9 ^{+1.4} _{-1.4}	4.3 ^{+1.3} _{-1.3}	96 ⁺³³ ₋₃₃	1360	9.92 ^{+0.12} _{-0.12}	43.04 ^{+0.16} _{-0.16}	4.86E+37	1.75E+35
2227	58728.959476127	563.1 ^{+1.0} _{-1.0}	3.5 ^{+0.5} _{-0.5}	174 ⁺²⁰ ₋₂₀	1402	6.85 ^{+0.06} _{-0.06}	23.71 ^{+0.23} _{-0.23}	2.54E+37	2.42E+35
2228	58728.966237954	563.5 ^{+0.6} _{-0.6}	3.3 ^{+0.2} _{-0.2}	95 ⁺¹⁹ ₋₁₉	1361	115.02 ^{+5.65} _{-5.65}	383.02 ^{+1.07} _{-1.07}	4.10E+38	1.15E+36
2229	58728.969465745	562.5 ^{+0.8} _{-0.8}	5.3 ^{+0.2} _{-0.2}	88 ⁺¹⁷ ₋₁₇	1121	112.07 ^{+4.27} _{-4.27}	596.21 ^{+1.02} _{-1.02}	6.38E+38	1.10E+36
2230	58728.975614957	562.3 ^{+0.3} _{-0.3}	2.1 ^{+0.2} _{-0.2}	125 ⁺¹⁵ ₋₁₅	1322	93.12 ^{+6.84} _{-6.84}	198.35 ^{+1.23} _{-1.23}	2.12E+38	1.32E+36
2231	58728.984549652	564.3 ^{+0.1} _{-0.1}	2.3 ^{+0.0} _{-0.0}	207 ⁺³¹ ₋₃₁	1394	333.07 ^{+6.39} _{-6.39}	769.39 ^{+0.32} _{-0.32}	8.24E+38	3.42E+35
2232	58728.985526035	562.7 ^{+1.4} _{-1.4}	2.7 ^{+0.2} _{-0.2}	55 ⁺³⁰ ₋₃₀	1284	82.37 ^{+5.86} _{-5.86}	221.58 ^{+1.29} _{-1.29}	2.37E+38	1.38E+36
2233	58728.988993429	562.1 ^{+1.0} _{-1.0}	6.0 ^{+0.3} _{-0.3}	63 ⁺²⁵ ₋₂₅	1418	87.38 ^{+4.14} _{-4.14}	527.78 ^{+1.41} _{-1.41}	5.65E+38	1.51E+36
2234	58728.990907199	561.5 ^{+0.9} _{-0.9}	4.4 ^{+0.9} _{-0.9}	66 ⁺²⁶ ₋₂₆	1382	10.05 ^{+0.07} _{-0.07}	44.50 ^{+0.07} _{-0.07}	5.03E+37	7.68E+34
2235	58728.990907431	563.6 ^{+1.2} _{-1.2}	2.7 ^{+1.2} _{-1.2}	142 ⁺²² ₋₂₂	1346	7.70 ^{+0.06} _{-0.06}	21.10 ^{+0.07} _{-0.07}	2.38E+37	7.80E+34
2236	58728.991117593	563.3 ^{+1.3} _{-1.3}	7.6 ^{+2.9} _{-2.9}	83 ⁺⁷ ₋₇	1382	6.25 ^{+0.05} _{-0.05}	47.78 ^{+0.13} _{-0.13}	5.40E+37	1.51E+35
2237	58728.991322194	562.8 ^{+0.9} _{-0.9}	4.3 ^{+1.8} _{-1.8}	153 ⁺⁶ ₋₆	1305	7.39 ^{+0.05} _{-0.05}	31.55 ^{+0.10} _{-0.10}	3.56E+37	1.10E+35
2238	58728.991323963	562.8 ^{+1.3} _{-1.3}	7.2 ^{+2.5} _{-2.5}	257 ⁺⁵ ₋₅	1195	7.00 ^{+0.05} _{-0.05}	50.02 ^{+0.13} _{-0.13}	5.65E+37	1.42E+35
2239	58728.991324359	563.4 ^{+1.4} _{-1.4}	9.4 ^{+4.5} _{-4.5}	227 ⁺³⁸ ₋₃₈	1242	5.10 ^{+0.04} _{-0.04}	47.67 ^{+0.16} _{-0.16}	5.38E+37	1.86E+35
2240	58728.991343274	563.3 ^{+1.0} _{-1.0}	3.1 ^{+1.1} _{-1.1}	72 ⁺²³ ₋₂₃	1387	9.12 ^{+0.07} _{-0.07}	28.29 ^{+0.07} _{-0.07}	3.20E+37	8.24E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2241	58728.991377897	563.2 ^{+1.3} _{-1.3}	5.2 ^{+1.4} _{-1.4}	107 ⁺²² ₋₂₂	1372	8.48 ^{+0.06} _{-0.06}	44.17 ^{+0.09} _{-0.09}	4.99E+37	9.77E+34
2242	58728.991403995	563.4 ^{+1.4} _{-1.4}	3.0 ^{+2.1} _{-2.1}	183 ⁺⁴⁵ ₋₄₅	1259	4.00 ^{+0.03} _{-0.03}	11.96 ^{+0.06} _{-0.06}	1.35E+37	6.75E+34
2243	58728.991405142	563.6 ^{+1.2} _{-1.2}	4.3 ^{+0.9} _{-0.9}	98 ⁺⁶⁵ ₋₆₅	1179	12.93 ^{+0.10} _{-0.10}	55.28 ^{+0.09} _{-0.09}	6.25E+37	9.84E+34
2244	58728.991416379	562.1 ^{+0.2} _{-0.2}	2.9 ^{+0.8} _{-0.8}	48 ⁺⁴ ₋₄	1411	8.25 ^{+0.06} _{-0.06}	24.34 ^{+0.05} _{-0.05}	2.75E+37	5.62E+34
2245	58728.991644814	563.3 ^{+1.2} _{-1.2}	5.3 ^{+1.5} _{-1.5}	51 ⁺⁴ ₋₄	1422	7.62 ^{+0.06} _{-0.06}	40.66 ^{+0.09} _{-0.09}	4.60E+37	9.64E+34
2246	58728.992397943	561.9 ^{+0.4} _{-0.4}	6.3 ^{+2.6} _{-2.6}	113 ⁺²⁶ ₋₂₆	1186	7.74 ^{+0.06} _{-0.06}	48.72 ^{+0.15} _{-0.15}	5.51E+37	1.65E+35
2247	58728.992619091	562.9 ^{+1.3} _{-1.3}	7.2 ^{+1.1} _{-1.1}	121 ⁺¹² ₋₁₂	1127	15.48 ^{+0.12} _{-0.12}	111.91 ^{+0.13} _{-0.13}	1.26E+38	1.45E+35
2248	58728.992630372	564.8 ^{+0.8} _{-0.8}	7.2 ^{+1.8} _{-1.8}	119 ⁺¹¹ ₋₁₁	1104	11.35 ^{+0.08} _{-0.08}	82.09 ^{+0.15} _{-0.15}	9.28E+37	1.70E+35
2249	58728.993034324	563.7 ^{+0.6} _{-0.6}	4.5 ^{+1.1} _{-1.1}	70 ⁺²⁰ ₋₂₀	1440	12.71 ^{+0.09} _{-0.09}	57.02 ^{+0.10} _{-0.10}	6.44E+37	1.12E+35
2250	58728.993282442	565.3 ^{+0.6} _{-0.6}	2.2 ^{+0.8} _{-0.8}	93 ⁺⁴ ₋₄	1359	7.63 ^{+0.06} _{-0.06}	16.40 ^{+0.04} _{-0.04}	1.85E+37	4.95E+34
2251	58728.993282509	565.6 ^{+0.6} _{-0.6}	3.0 ^{+0.4} _{-0.4}	134 ⁺¹⁸ ₋₁₈	1387	20.02 ^{+0.15} _{-0.15}	60.74 ^{+0.06} _{-0.06}	6.86E+37	7.29E+34
2252	58728.993403762	563.0 ^{+1.3} _{-1.3}	10.8 ^{+2.9} _{-2.9}	69 ⁺²⁶ ₋₂₆	1383	7.16 ^{+0.05} _{-0.05}	77.34 ^{+0.15} _{-0.15}	8.73E+37	1.71E+35
2253	58728.994394477	563.5 ^{+1.2} _{-1.2}	3.5 ^{+0.7} _{-0.7}	50 ⁺¹⁵ ₋₁₅	1369	9.49 ^{+0.07} _{-0.07}	33.61 ^{+0.05} _{-0.05}	3.80E+37	5.81E+34
2254	58728.994492579	565.5 ^{+0.2} _{-0.2}	3.2 ^{+0.1} _{-0.1}	452 ⁺³⁴ ₋₃₄	1272	187.03 ^{+5.34} _{-5.34}	605.98 ^{+0.59} _{-0.59}	6.49E+38	6.29E+35
2255	58728.994677315	563.5 ^{+1.3} _{-1.3}	4.1 ^{+1.2} _{-1.2}	66 ⁺³⁶ ₋₃₆	1368	9.66 ^{+0.07} _{-0.07}	39.90 ^{+0.09} _{-0.09}	4.51E+37	9.82E+34
2256	58728.994781013	564.4 ^{+0.9} _{-0.9}	4.4 ^{+0.9} _{-0.9}	171 ⁺³¹ ₋₃₁	1234	12.80 ^{+0.10} _{-0.10}	56.89 ^{+0.09} _{-0.09}	6.43E+37	9.77E+34
2257	58728.994808112	565.0 ^{+0.3} _{-0.3}	2.8 ^{+0.6} _{-0.6}	106 ⁺⁴⁵ ₋₄₅	1371	12.51 ^{+0.09} _{-0.09}	35.21 ^{+0.06} _{-0.06}	3.98E+37	6.43E+34
2258	58728.994808285	565.5 ^{+0.7} _{-0.7}	3.1 ^{+0.2} _{-0.2}	95 ⁺⁴⁴ ₋₄₄	1309	19.90 ^{+0.15} _{-0.15}	61.90 ^{+0.03} _{-0.03}	6.99E+37	3.00E+34
2259	58728.995095042	562.8 ^{+1.1} _{-1.1}	3.7 ^{+1.1} _{-1.1}	44 ⁺¹⁷ ₋₁₇	1071	7.35 ^{+0.06} _{-0.06}	27.00 ^{+0.06} _{-0.06}	3.05E+37	6.86E+34
2260	58728.995571042	563.8 ^{+0.9} _{-0.9}	6.8 ^{+2.3} _{-2.3}	53 ⁺¹¹ ₋₁₁	1049	6.89 ^{+0.05} _{-0.05}	46.94 ^{+0.12} _{-0.12}	5.30E+37	1.35E+35
2261	58728.995668991	563.7 ^{+1.0} _{-1.0}	3.0 ^{+0.8} _{-0.8}	57 ⁺²¹ ₋₂₁	1387	9.15 ^{+0.07} _{-0.07}	27.54 ^{+0.05} _{-0.05}	3.11E+37	5.95E+34
2262	58728.996033998	563.8 ^{+0.9} _{-0.9}	3.1 ^{+0.6} _{-0.6}	130 ⁺⁴⁰ ₋₄₀	1331	14.58 ^{+0.11} _{-0.11}	45.74 ^{+0.07} _{-0.07}	5.17E+37	7.48E+34
2263	58728.996135078	563.6 ^{+0.3} _{-0.3}	3.1 ^{+0.5} _{-0.5}	153 ⁺¹⁷ ₋₁₇	1096	18.86 ^{+0.14} _{-0.14}	58.66 ^{+0.07} _{-0.07}	6.63E+37	7.91E+34
2264	58728.996334944	563.6 ^{+1.2} _{-1.2}	2.7 ^{+1.2} _{-1.2}	100 ⁺⁶³ ₋₆₃	1202	5.83 ^{+0.04} _{-0.04}	15.56 ^{+0.05} _{-0.05}	1.76E+37	5.78E+34
2265	58728.996405572	562.6 ^{+1.2} _{-1.2}	6.0 ^{+1.8} _{-1.8}	79 ⁺⁴⁰ ₋₄₀	1394	8.70 ^{+0.07} _{-0.07}	52.23 ^{+0.12} _{-0.12}	5.90E+37	1.35E+35
2266	58728.996830295	563.2 ^{+1.0} _{-1.0}	5.4 ^{+1.2} _{-1.2}	95 ⁺²⁴ ₋₂₄	1436	11.85 ^{+0.09} _{-0.09}	63.94 ^{+0.11} _{-0.11}	7.23E+37	1.26E+35
2267	58728.997389003	563.8 ^{+0.7} _{-0.7}	2.5 ^{+0.6} _{-0.6}	119 ⁺³² ₋₃₂	1428	12.45 ^{+0.10} _{-0.10}	31.22 ^{+0.06} _{-0.06}	3.53E+37	6.88E+34
2268	58728.997795601	563.3 ^{+1.2} _{-1.2}	5.5 ^{+3.1} _{-3.1}	68 ⁺¹¹ ₋₁₁	1434	5.62 ^{+0.04} _{-0.04}	31.08 ^{+0.13} _{-0.13}	3.51E+37	1.48E+35
2269	58728.997796193	563.2 ^{+0.8} _{-0.8}	6.5 ^{+1.6} _{-1.6}	98 ⁺⁴¹ ₋₄₁	1385	8.07 ^{+0.06} _{-0.06}	52.74 ^{+0.09} _{-0.09}	5.96E+37	1.07E+35
2270	58728.997867552	563.7 ^{+1.3} _{-1.3}	5.2 ^{+1.3} _{-1.3}	183 ⁺²⁵ ₋₂₅	1200	9.10 ^{+0.07} _{-0.07}	47.50 ^{+0.09} _{-0.09}	5.37E+37	9.97E+34
2271	58728.998340341	563.4 ^{+1.0} _{-1.0}	2.0 ^{+0.6} _{-0.6}	63 ⁺⁵ ₋₅	1346	8.78 ^{+0.07} _{-0.07}	17.46 ^{+0.04} _{-0.04}	1.97E+37	4.17E+34
2272	58728.999111202	563.9 ^{+0.5} _{-0.5}	1.9 ^{+0.6} _{-0.6}	136 ⁺⁴ ₋₄	1170	6.10 ^{+0.05} _{-0.05}	11.40 ^{+0.03} _{-0.03}	1.29E+37	3.33E+34
2273	58728.999567218	563.3 ^{+1.2} _{-1.2}	4.2 ^{+1.2} _{-1.2}	60 ⁺²⁹ ₋₂₉	1387	10.49 ^{+0.08} _{-0.08}	44.58 ^{+0.09} _{-0.09}	5.04E+37	1.03E+35
2274	58728.999850389	564.4 ^{+1.0} _{-1.0}	6.5 ^{+1.6} _{-1.6}	189 ⁺¹⁹ ₋₁₉	1391	12.40 ^{+0.09} _{-0.09}	80.41 ^{+0.15} _{-0.15}	9.09E+37	1.69E+35
2275	58729.000446685	563.1 ^{+1.1} _{-1.1}	7.8 ^{+3.4} _{-3.4}	277 ⁺¹³³ ₋₁₃₃	1304	6.68 ^{+0.05} _{-0.05}	51.90 ^{+0.17} _{-0.17}	5.86E+37	1.96E+35
2276	58729.000595758	563.7 ^{+1.0} _{-1.0}	2.7 ^{+1.1} _{-1.1}	61 ⁺²² ₋₂₂	1405	5.53 ^{+0.04} _{-0.04}	14.80 ^{+0.05} _{-0.05}	1.67E+37	5.22E+34
2277	58729.000616349	563.4 ^{+0.9} _{-0.9}	2.6 ^{+0.8} _{-0.8}	61 ⁺⁵ ₋₅	1430	8.02 ^{+0.06} _{-0.06}	20.53 ^{+0.05} _{-0.05}	2.32E+37	5.26E+34
2278	58729.001341578	565.1 ^{+0.5} _{-0.5}	3.9 ^{+1.0} _{-1.0}	137 ⁺³¹ ₋₃₁	1248	13.39 ^{+0.10} _{-0.10}	51.68 ^{+0.10} _{-0.10}	5.84E+37	1.12E+35
2279	58729.001488443	563.8 ^{+0.6} _{-0.6}	2.4 ^{+0.5} _{-0.5}	191 ⁺²⁷ ₋₂₇	1208	16.27 ^{+0.13} _{-0.13}	39.14 ^{+0.06} _{-0.06}	4.42E+37	6.79E+34
2280	58729.001943664	562.7 ^{+1.3} _{-1.3}	7.5 ^{+2.1} _{-2.1}	299 ⁺²⁰ ₋₂₀	1281	10.06 ^{+0.08} _{-0.08}	75.65 ^{+0.17} _{-0.17}	8.55E+37	1.88E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2281	58729.001976393	563.7 ^{+1.1} _{-1.1}	2.5 ^{+0.6} _{-0.6}	101 ⁺¹⁹ ₋₁₉	1433	16.92 ^{+0.13} _{-0.13}	42.42 ^{+0.09} _{-0.09}	4.79E+37	9.61E+34
2282	58729.002004442	564.3 ^{+0.9} _{-0.9}	4.0 ^{+1.1} _{-1.1}	52 ⁺⁴ ₋₄	1426	10.51 ^{+0.08} _{-0.08}	41.82 ^{+0.09} _{-0.09}	4.73E+37	1.05E+35
2283	58729.002338003	563.7 ^{+1.2} _{-1.2}	4.0 ^{+0.9} _{-0.9}	113 ⁺⁵⁴ ₋₅₄	1374	11.96 ^{+0.09} _{-0.09}	47.78 ^{+0.08} _{-0.08}	5.40E+37	9.53E+34
2284	58729.002411177	563.9 ^{+1.2} _{-1.2}	2.5 ^{+0.6} _{-0.6}	56 ⁺³⁷ ₋₃₇	1346	11.93 ^{+0.09} _{-0.09}	29.90 ^{+0.06} _{-0.06}	3.38E+37	6.79E+34
2285	58729.002673788	563.3 ^{+1.2} _{-1.2}	1.5 ^{+0.4} _{-0.4}	351 ⁺⁸⁵ ₋₈₅	1254	8.87 ^{+0.07} _{-0.07}	13.34 ^{+0.03} _{-0.03}	1.51E+37	2.86E+34
2286	58729.002689357	562.7 ^{+2.8} _{-2.8}	9.0 ^{+2.0} _{-2.0}	133 ⁺³¹ ₋₃₁	1408	8.39 ^{+0.07} _{-0.07}	75.12 ^{+0.13} _{-0.13}	8.49E+37	1.46E+35
2287	58729.002689715	562.9 ^{+1.2} _{-1.2}	4.0 ^{+0.8} _{-0.8}	103 ⁺¹⁵ ₋₁₅	1362	8.62 ^{+0.07} _{-0.07}	34.36 ^{+0.05} _{-0.05}	3.88E+37	5.98E+34
2288	58729.002884691	564.7 ^{+1.1} _{-1.1}	4.7 ^{+1.0} _{-1.0}	107 ⁺⁵¹ ₋₅₁	1260	10.38 ^{+0.08} _{-0.08}	48.72 ^{+0.08} _{-0.08}	5.51E+37	9.39E+34
2289	58729.003235272	563.5 ^{+1.2} _{-1.2}	3.2 ^{+0.5} _{-0.5}	70 ⁺³³ ₋₃₃	1370	11.57 ^{+0.09} _{-0.09}	36.46 ^{+0.05} _{-0.05}	4.12E+37	5.43E+34
2290	58729.003251443	563.2 ^{+1.4} _{-1.4}	2.9 ^{+0.6} _{-0.6}	100 ⁺⁵⁶ ₋₅₆	1355	8.38 ^{+0.07} _{-0.07}	24.50 ^{+0.04} _{-0.04}	2.77E+37	4.32E+34
2291	58729.003293556	563.5 ^{+1.2} _{-1.2}	1.7 ^{+0.2} _{-0.2}	70 ⁺³³ ₋₃₃	1370	81.42 ^{+7.61} _{-7.61}	141.67 ^{+1.45} _{-1.45}	1.52E+38	1.55E+36
2292	58729.003314802	563.1 ^{+1.1} _{-1.1}	4.9 ^{+1.2} _{-1.2}	54 ⁺²⁹ ₋₂₉	1399	8.35 ^{+0.07} _{-0.07}	40.93 ^{+0.08} _{-0.08}	4.63E+37	8.70E+34
2293	58729.003333089	563.1 ^{+1.1} _{-1.1}	3.7 ^{+1.1} _{-1.1}	78 ⁺¹⁵ ₋₁₅	1110	7.50 ^{+0.06} _{-0.06}	27.40 ^{+0.06} _{-0.06}	3.10E+37	7.30E+34
2294	58729.003465958	564.4 ^{+0.7} _{-0.7}	3.7 ^{+0.9} _{-0.9}	115 ⁺²³ ₋₂₃	1190	10.04 ^{+0.08} _{-0.08}	36.69 ^{+0.07} _{-0.07}	4.15E+37	8.20E+34
2295	58729.003486630	564.5 ^{+1.2} _{-1.2}	5.2 ^{+2.8} _{-2.8}	92 ⁺²⁷ ₋₂₇	1181	5.02 ^{+0.04} _{-0.04}	26.17 ^{+0.11} _{-0.11}	2.96E+37	1.25E+35
2296	58729.003486796	564.4 ^{+0.9} _{-0.9}	6.9 ^{+1.7} _{-1.7}	147 ⁺²⁷ ₋₂₇	1236	9.99 ^{+0.08} _{-0.08}	68.64 ^{+0.14} _{-0.14}	7.76E+37	1.54E+35
2297	58729.003532562	562.8 ^{+1.1} _{-1.1}	4.5 ^{+1.5} _{-1.5}	52 ⁺³⁰ ₋₃₀	1083	7.44 ^{+0.06} _{-0.06}	33.66 ^{+0.09} _{-0.09}	3.80E+37	1.02E+35
2298	58729.003666032	562.9 ^{+1.5} _{-1.5}	3.9 ^{+0.7} _{-0.7}	74 ⁺²⁸ ₋₂₈	1433	11.54 ^{+0.09} _{-0.09}	45.46 ^{+0.06} _{-0.06}	5.14E+37	6.91E+34
2299	58729.003715438	562.3 ^{+0.8} _{-0.8}	2.2 ^{+0.5} _{-0.5}	50 ⁺³⁴ ₋₃₄	1383	10.34 ^{+0.08} _{-0.08}	22.77 ^{+0.04} _{-0.04}	2.57E+37	4.93E+34
2300	58729.003773973	562.9 ^{+1.5} _{-1.5}	4.0 ^{+0.5} _{-0.5}	74 ⁺²⁸ ₋₂₈	1433	48.92 ^{+5.04} _{-5.04}	197.64 ^{+2.47} _{-2.47}	2.12E+38	2.64E+36
2301	58729.003873254	564.4 ^{+0.8} _{-0.8}	8.3 ^{+3.1} _{-3.1}	139 ⁺²⁸ ₋₂₈	1224	8.34 ^{+0.07} _{-0.07}	69.15 ^{+0.20} _{-0.20}	7.81E+37	2.31E+35
2302	58729.003873861	564.0 ^{+1.0} _{-1.0}	3.9 ^{+1.3} _{-1.3}	197 ⁺⁵ ₋₅	1241	5.81 ^{+0.05} _{-0.05}	22.76 ^{+0.06} _{-0.06}	2.57E+37	6.91E+34
2303	58729.003874216	562.6 ^{+0.9} _{-0.9}	6.2 ^{+1.7} _{-1.7}	86 ⁺²⁰ ₋₂₀	1415	10.54 ^{+0.08} _{-0.08}	65.76 ^{+0.14} _{-0.14}	7.43E+37	1.63E+35
2304	58729.003952182	563.0 ^{+1.1} _{-1.1}	3.8 ^{+0.9} _{-0.9}	142 ⁺²¹ ₋₂₁	1420	15.07 ^{+0.12} _{-0.12}	57.00 ^{+0.11} _{-0.11}	6.44E+37	1.21E+35
2305	58729.004189084	563.3 ^{+1.0} _{-1.0}	5.2 ^{+2.3} _{-2.3}	49 ⁺¹² ₋₁₂	1102	7.61 ^{+0.06} _{-0.06}	39.63 ^{+0.14} _{-0.14}	4.48E+37	1.57E+35
2306	58729.004672940	563.9 ^{+0.7} _{-0.7}	5.5 ^{+1.1} _{-1.1}	67 ⁺¹⁰ ₋₁₀	1054	10.48 ^{+0.08} _{-0.08}	57.48 ^{+0.09} _{-0.09}	6.50E+37	1.04E+35
2307	58729.004833957	563.8 ^{+1.3} _{-1.3}	3.5 ^{+0.5} _{-0.5}	46 ⁺⁸ ₋₈	1446	13.68 ^{+0.11} _{-0.11}	48.47 ^{+0.06} _{-0.06}	5.48E+37	6.74E+34
2308	58729.005151430	563.9 ^{+1.3} _{-1.3}	2.7 ^{+0.6} _{-0.6}	99 ⁺⁴⁸ ₋₄₈	1389	16.66 ^{+0.13} _{-0.13}	45.59 ^{+0.08} _{-0.08}	5.15E+37	8.69E+34
2309	58729.005278634	563.7 ^{+1.4} _{-1.4}	6.4 ^{+1.0} _{-1.0}	69 ⁺¹⁵ ₋₁₅	1436	13.22 ^{+0.10} _{-0.10}	84.48 ^{+0.10} _{-0.10}	9.55E+37	1.16E+35
2310	58729.005510795	563.0 ^{+1.3} _{-1.3}	4.8 ^{+1.7} _{-1.7}	77 ⁺⁶³ ₋₆₃	1384	8.15 ^{+0.07} _{-0.07}	39.03 ^{+0.11} _{-0.11}	4.41E+37	1.23E+35
2311	58729.005511652	563.7 ^{+1.4} _{-1.4}	4.4 ^{+0.4} _{-0.4}	69 ⁺¹⁵ ₋₁₅	1436	64.70 ^{+4.74} _{-4.74}	285.33 ^{+1.80} _{-1.80}	3.05E+38	1.93E+36
2312	58729.006013952	562.6 ^{+1.3} _{-1.3}	5.4 ^{+1.3} _{-1.3}	203 ⁺¹⁶² ₋₁₆₂	1178	8.59 ^{+0.07} _{-0.07}	46.52 ^{+0.09} _{-0.09}	5.26E+37	1.05E+35
2313	58729.006014203	562.3 ^{+1.3} _{-1.3}	2.7 ^{+0.7} _{-0.7}	63 ⁺³⁷ ₋₃₇	1085	9.84 ^{+0.08} _{-0.08}	26.51 ^{+0.05} _{-0.05}	3.00E+37	6.05E+34
2314	58729.006176619	563.7 ^{+1.1} _{-1.1}	3.9 ^{+0.9} _{-0.9}	136 ⁺³¹ ₋₃₁	1250	12.13 ^{+0.10} _{-0.10}	47.14 ^{+0.09} _{-0.09}	5.33E+37	1.02E+35
2315	58729.006303004	563.4 ^{+1.3} _{-1.3}	1.9 ^{+0.2} _{-0.2}	119 ⁺²⁵ ₋₂₅	1376	22.70 ^{+0.18} _{-0.18}	43.42 ^{+0.04} _{-0.04}	4.91E+37	4.80E+34
2316	58729.006760578	564.3 ^{+0.8} _{-0.8}	3.4 ^{+0.7} _{-0.7}	104 ⁺²⁹ ₋₂₉	1373	9.97 ^{+0.08} _{-0.08}	33.57 ^{+0.06} _{-0.06}	3.79E+37	6.75E+34
2317	58729.006760999	562.7 ^{+1.2} _{-1.2}	4.8 ^{+1.7} _{-1.7}	79 ⁺⁴⁷ ₋₄₇	1127	6.63 ^{+0.05} _{-0.05}	32.13 ^{+0.09} _{-0.09}	3.63E+37	1.03E+35
2318	58729.007024530	563.7 ^{+1.0} _{-1.0}	5.3 ^{+1.1} _{-1.1}	196 ⁺¹⁶ ₋₁₆	1257	8.68 ^{+0.07} _{-0.07}	45.93 ^{+0.08} _{-0.08}	5.19E+37	8.61E+34
2319	58729.007058737	564.2 ^{+0.9} _{-0.9}	5.9 ^{+0.8} _{-0.8}	100 ⁺¹⁸ ₋₁₈	1130	15.58 ^{+0.13} _{-0.13}	92.02 ^{+0.11} _{-0.11}	1.04E+38	1.19E+35
2320	58729.007251336	563.7 ^{+1.0} _{-1.0}	2.5 ^{+0.2} _{-0.2}	196 ⁺¹⁶ ₋₁₆	1257	75.04 ^{+6.05} _{-6.05}	189.85 ^{+1.39} _{-1.39}	2.03E+38	1.49E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2321	58729.007650780	563.2 ^{+1.3} _{-1.3}	3.5 ^{+2.1} _{-2.1}	285 ⁺¹⁵² ₋₁₅₂	1196	5.19 ^{+0.04} _{-0.04}	18.36 ^{+0.09} _{-0.09}	2.07E+37	9.87E+34
2322	58729.007934653	564.0 ^{+1.1} _{-1.1}	2.5 ^{+0.4} _{-0.4}	108 ⁺⁴³ ₋₄₃	1239	14.27 ^{+0.12} _{-0.12}	35.67 ^{+0.05} _{-0.05}	4.03E+37	5.32E+34
2323	58729.008180274	562.8 ^{+1.2} _{-1.2}	2.5 ^{+0.7} _{-0.7}	54 ⁺²⁵ ₋₂₅	1413	7.42 ^{+0.06} _{-0.06}	18.87 ^{+0.04} _{-0.04}	2.13E+37	5.00E+34
2324	58729.008237560	563.7 ^{+1.2} _{-1.2}	2.4 ^{+0.6} _{-0.6}	299 ⁺⁴ ₋₄	1196	10.10 ^{+0.08} _{-0.08}	24.38 ^{+0.05} _{-0.05}	2.76E+37	5.36E+34
2325	58729.008484644	563.4 ^{+1.2} _{-1.2}	4.7 ^{+1.3} _{-1.3}	78 ⁺²⁶ ₋₂₆	1412	7.74 ^{+0.06} _{-0.06}	36.06 ^{+0.08} _{-0.08}	4.07E+37	9.24E+34
2326	58729.008733585	562.9 ^{+1.3} _{-1.3}	2.6 ^{+0.9} _{-0.9}	47 ⁺¹⁷ ₋₁₇	1413	7.57 ^{+0.06} _{-0.06}	19.75 ^{+0.06} _{-0.06}	2.23E+37	6.59E+34
2327	58729.009041145	563.6 ^{+1.3} _{-1.3}	8.5 ^{+1.7} _{-1.7}	225 ⁺⁴³ ₋₄₃	1375	12.04 ^{+0.10} _{-0.10}	102.55 ^{+0.17} _{-0.17}	1.16E+38	1.94E+35
2328	58729.009077661	562.9 ^{+1.3} _{-1.3}	6.0 ^{+0.8} _{-0.8}	47 ⁺¹⁷ ₋₁₇	1413	36.38 ^{+4.03} _{-4.03}	220.10 ^{+3.22} _{-3.22}	2.36E+38	3.45E+36
2329	58729.009249077	562.1 ^{+1.0} _{-1.0}	1.8 ^{+0.5} _{-0.5}	29 ⁺²⁵ ₋₂₅	1091	8.26 ^{+0.07} _{-0.07}	15.19 ^{+0.04} _{-0.04}	1.72E+37	4.22E+34
2330	58729.009532312	563.8 ^{+0.9} _{-0.9}	4.1 ^{+1.4} _{-1.4}	117 ⁺⁹ ₋₉	1365	6.06 ^{+0.05} _{-0.05}	24.78 ^{+0.07} _{-0.07}	2.80E+37	7.84E+34
2331	58729.009970040	562.1 ^{+1.0} _{-1.0}	5.8 ^{+0.6} _{-0.6}	173 ⁺³⁵ ₋₃₅	1331	47.36 ^{+4.17} _{-4.17}	273.27 ^{+2.50} _{-2.50}	2.93E+38	2.68E+36
2332	58729.010091205	563.6 ^{+1.0} _{-1.0}	4.8 ^{+2.2} _{-2.2}	102 ⁺⁹ ₋₉	1134	5.71 ^{+0.05} _{-0.05}	27.33 ^{+0.10} _{-0.10}	3.09E+37	1.18E+35
2333	58729.010091535	562.9 ^{+1.3} _{-1.3}	3.3 ^{+1.1} _{-1.1}	60 ⁺⁴ ₋₄	1410	8.79 ^{+0.07} _{-0.07}	28.85 ^{+0.08} _{-0.08}	3.26E+37	9.16E+34
2334	58729.010729758	562.1 ^{+0.9} _{-0.9}	6.4 ^{+1.8} _{-1.8}	73 ⁺²⁰ ₋₂₀	1446	9.66 ^{+0.08} _{-0.08}	61.58 ^{+0.14} _{-0.14}	6.96E+37	1.64E+35
2335	58729.010854609	563.9 ^{+0.4} _{-0.4}	3.4 ^{+0.5} _{-0.5}	117 ⁺⁴ ₋₄	1393	9.93 ^{+0.08} _{-0.08}	33.58 ^{+0.04} _{-0.04}	3.79E+37	4.38E+34
2336	58729.011197965	564.0 ^{+1.2} _{-1.2}	5.2 ^{+1.7} _{-1.7}	55 ⁺⁵² ₋₅₂	1138	8.71 ^{+0.07} _{-0.07}	45.45 ^{+0.13} _{-0.13}	5.14E+37	1.44E+35
2337	58729.011282806	564.3 ^{+0.9} _{-0.9}	4.4 ^{+1.6} _{-1.6}	134 ⁺⁴² ₋₄₂	1389	8.13 ^{+0.07} _{-0.07}	35.46 ^{+0.11} _{-0.11}	4.01E+37	1.23E+35
2338	58729.011452931	563.5 ^{+1.2} _{-1.2}	6.6 ^{+1.4} _{-1.4}	103 ⁺¹¹⁹ ₋₁₁₉	1382	6.14 ^{+0.05} _{-0.05}	40.24 ^{+0.07} _{-0.07}	4.55E+37	7.79E+34
2339	58729.011673450	563.7 ^{+1.2} _{-1.2}	5.1 ^{+2.5} _{-2.5}	83 ⁺⁴ ₋₄	1087	8.50 ^{+0.07} _{-0.07}	43.26 ^{+0.18} _{-0.18}	4.89E+37	2.02E+35
2340	58729.011883601	564.5 ^{+0.9} _{-0.9}	3.3 ^{+0.9} _{-0.9}	72 ⁺¹⁴ ₋₁₄	1437	10.26 ^{+0.09} _{-0.09}	33.75 ^{+0.08} _{-0.08}	3.81E+37	8.52E+34
2341	58729.011944121	563.5 ^{+0.9} _{-0.9}	2.0 ^{+1.1} _{-1.1}	63 ⁺⁴ ₋₄	1380	4.90 ^{+0.04} _{-0.04}	10.00 ^{+0.05} _{-0.05}	1.13E+37	5.27E+34
2342	58729.011944317	563.5 ^{+1.1} _{-1.1}	5.1 ^{+1.2} _{-1.2}	47 ⁺¹⁶ ₋₁₆	1110	10.66 ^{+0.09} _{-0.09}	54.21 ^{+0.11} _{-0.11}	6.13E+37	1.19E+35
2343	58729.012803899	562.5 ^{+1.1} _{-1.1}	3.5 ^{+1.4} _{-1.4}	259 ⁺⁴ ₋₄	1261	5.03 ^{+0.04} _{-0.04}	17.51 ^{+0.06} _{-0.06}	1.98E+37	6.94E+34
2344	58729.012804191	562.8 ^{+1.2} _{-1.2}	4.0 ^{+2.8} _{-2.8}	267 ⁺¹⁰⁷ ₋₁₀₇	1296	4.07 ^{+0.04} _{-0.04}	16.28 ^{+0.10} _{-0.10}	1.84E+37	1.09E+35
2345	58729.012948753	562.0 ^{+1.1} _{-1.1}	6.2 ^{+2.7} _{-2.7}	89 ⁺³³ ₋₃₃	1388	6.54 ^{+0.06} _{-0.06}	40.51 ^{+0.15} _{-0.15}	4.58E+37	1.72E+35
2346	58729.013312349	562.8 ^{+0.5} _{-0.5}	3.8 ^{+0.7} _{-0.7}	82 ⁺⁵⁵ ₋₅₅	1368	12.34 ^{+0.10} _{-0.10}	46.48 ^{+0.07} _{-0.07}	5.25E+37	8.32E+34
2347	58729.013369574	565.1 ^{+0.9} _{-0.9}	2.8 ^{+0.9} _{-0.9}	199 ⁺⁴⁴ ₋₄₄	1372	12.64 ^{+0.11} _{-0.11}	34.82 ^{+0.10} _{-0.10}	3.93E+37	1.09E+35
2348	58729.013390536	563.3 ^{+1.3} _{-1.3}	4.6 ^{+3.7} _{-3.7}	150 ⁺⁶ ₋₆	1333	5.04 ^{+0.04} _{-0.04}	23.45 ^{+0.16} _{-0.16}	2.65E+37	1.79E+35
2349	58729.013408211	562.6 ^{+0.2} _{-0.2}	1.9 ^{+0.3} _{-0.3}	151 ⁺²¹ ₋₂₁	1180	30.57 ^{+0.26} _{-0.26}	58.46 ^{+0.07} _{-0.07}	6.61E+37	7.76E+34
2350	58729.013408242	562.5 ^{+0.2} _{-0.2}	2.0 ^{+0.3} _{-0.3}	171 ⁺²⁹ ₋₂₉	1222	29.87 ^{+0.26} _{-0.26}	58.39 ^{+0.07} _{-0.07}	6.60E+37	8.42E+34
2351	58729.013533145	563.6 ^{+1.2} _{-1.2}	4.5 ^{+1.4} _{-1.4}	191 ⁺⁶³ ₋₆₃	1239	11.57 ^{+0.10} _{-0.10}	52.22 ^{+0.14} _{-0.14}	5.90E+37	1.61E+35
2352	58729.013741978	561.7 ^{+0.4} _{-0.4}	1.8 ^{+0.7} _{-0.7}	101 ⁺⁴ ₋₄	1095	12.26 ^{+0.10} _{-0.10}	22.41 ^{+0.07} _{-0.07}	2.53E+37	8.06E+34
2353	58729.013742237	564.0 ^{+0.8} _{-0.8}	3.2 ^{+1.0} _{-1.0}	134 ⁺³⁵ ₋₃₅	1367	16.22 ^{+0.14} _{-0.14}	51.84 ^{+0.14} _{-0.14}	5.86E+37	1.53E+35
2354	58729.014340844	564.6 ^{+0.6} _{-0.6}	2.8 ^{+0.6} _{-0.6}	105 ⁺³⁰ ₋₃₀	1430	12.05 ^{+0.10} _{-0.10}	33.39 ^{+0.06} _{-0.06}	3.77E+37	7.27E+34
2355	58729.014478640	563.6 ^{+1.2} _{-1.2}	3.9 ^{+1.2} _{-1.2}	120 ⁺⁴⁰ ₋₄₀	1326	11.87 ^{+0.10} _{-0.10}	45.92 ^{+0.12} _{-0.12}	5.19E+37	1.36E+35
2356	58729.014512084	563.2 ^{+1.2} _{-1.2}	2.3 ^{+0.8} _{-0.8}	58 ⁺²⁴ ₋₂₄	1414	9.55 ^{+0.08} _{-0.08}	21.67 ^{+0.06} _{-0.06}	2.45E+37	7.07E+34
2357	58729.014632869	564.2 ^{+0.6} _{-0.6}	1.8 ^{+0.3} _{-0.3}	88 ⁺⁴ ₋₄	1398	10.85 ^{+0.09} _{-0.09}	19.96 ^{+0.03} _{-0.03}	2.26E+37	3.42E+34
2358	58729.015026298	562.4 ^{+1.1} _{-1.1}	6.2 ^{+0.9} _{-0.9}	372 ⁺⁴⁹ ₋₄₉	1265	11.10 ^{+0.10} _{-0.10}	68.39 ^{+0.09} _{-0.09}	7.73E+37	9.78E+34
2359	58729.015205361	564.2 ^{+0.6} _{-0.6}	4.4 ^{+0.7} _{-0.7}	88 ⁺⁴ ₋₄	1398	35.21 ^{+4.82} _{-4.82}	155.98 ^{+3.47} _{-3.47}	1.67E+38	3.72E+36
2360	58729.015205662	562.4 ^{+1.1} _{-1.1}	4.0 ^{+0.5} _{-0.5}	372 ⁺⁴⁹ ₋₄₉	1265	51.07 ^{+5.04} _{-5.04}	206.83 ^{+2.37} _{-2.37}	2.21E+38	2.54E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2361	58729.015206042	563.5 ^{+1.2} _{-1.2}	7.0 ^{+1.2} _{-1.2}	175 ⁺¹³⁸ ₋₁₃₈	1340	29.39 ^{+4.11} _{-4.11}	204.26 ^{+4.73} _{-4.73}	2.19E+38	5.06E+36
2362	58729.015206056	562.9 ^{+1.2} _{-1.2}	6.3 ^{+1.6} _{-1.6}	118 ⁺²⁶ ₋₂₆	1385	10.10 ^{+0.09} _{-0.09}	63.42 ^{+0.14} _{-0.14}	7.17E+37	1.55E+35
2363	58729.015555294	562.6 ^{+1.6} _{-1.6}	4.9 ^{+3.5} _{-3.5}	62 ⁺²¹ ₋₂₁	1416	4.96 ^{+0.04} _{-0.04}	24.24 ^{+0.15} _{-0.15}	2.74E+37	1.70E+35
2364	58729.015555615	561.8 ^{+0.3} _{-0.3}	1.9 ^{+0.2} _{-0.2}	80 ⁺¹³ ₋₁₃	1447	19.44 ^{+0.17} _{-0.17}	36.35 ^{+0.04} _{-0.04}	4.11E+37	4.60E+34
2365	58729.015555847	562.7 ^{+1.2} _{-1.2}	3.6 ^{+0.9} _{-0.9}	68 ⁺⁶⁸ ₋₆₈	1432	7.57 ^{+0.07} _{-0.07}	27.32 ^{+0.06} _{-0.06}	3.09E+37	6.65E+34
2366	58729.015556461	561.8 ^{+0.3} _{-0.3}	5.4 ^{+0.6} _{-0.6}	80 ⁺¹³ ₋₁₃	1447	44.38 ^{+4.50} _{-4.50}	240.98 ^{+2.88} _{-2.88}	2.58E+38	3.08E+36
2367	58729.015805796	562.7 ^{+1.2} _{-1.2}	7.6 ^{+1.1} _{-1.1}	68 ⁺⁶⁸ ₋₆₈	1432	7.51 ^{+0.07} _{-0.07}	57.02 ^{+0.56} _{-0.56}	6.10E+37	6.04E+35
2368	58729.015918680	562.9 ^{+1.4} _{-1.4}	3.5 ^{+0.5} _{-0.5}	69 ⁺¹³ ₋₁₃	1133	13.82 ^{+0.12} _{-0.12}	48.52 ^{+0.06} _{-0.06}	5.48E+37	6.90E+34
2369	58729.016147161	563.7 ^{+0.9} _{-0.9}	2.9 ^{+0.1} _{-0.1}	60 ⁺¹³ ₋₁₃	1416	323.67 ^{+5.69} _{-5.69}	932.17 ^{+0.40} _{-0.40}	9.98E+38	4.26E+35
2370	58729.016147211	563.9 ^{+0.1} _{-0.1}	3.5 ^{+0.3} _{-0.3}	477 ⁺⁸ ₋₈	1260	87.36 ^{+5.26} _{-5.26}	306.63 ^{+1.68} _{-1.68}	3.28E+38	1.80E+36
2371	58729.016147705	562.4 ^{+1.2} _{-1.2}	4.8 ^{+1.5} _{-1.5}	175 ⁺¹³ ₋₁₃	1195	7.00 ^{+0.06} _{-0.06}	33.90 ^{+0.09} _{-0.09}	3.83E+37	1.02E+35
2372	58729.016147839	562.6 ^{+1.3} _{-1.3}	3.9 ^{+0.7} _{-0.7}	93 ⁺¹⁰¹ ₋₁₀₁	1369	9.43 ^{+0.08} _{-0.08}	36.65 ^{+0.06} _{-0.06}	4.14E+37	6.93E+34
2373	58729.016688009	562.8 ^{+0.7} _{-0.7}	6.7 ^{+2.5} _{-2.5}	52 ⁺³⁵ ₋₃₅	1338	8.57 ^{+0.08} _{-0.08}	57.83 ^{+0.19} _{-0.19}	6.53E+37	2.12E+35
2374	58729.016739680	563.7 ^{+1.3} _{-1.3}	3.4 ^{+1.3} _{-1.3}	75 ⁺³⁹ ₋₃₉	1078	5.34 ^{+0.05} _{-0.05}	18.39 ^{+0.06} _{-0.06}	2.08E+37	6.97E+34
2375	58729.017082260	563.5 ^{+1.1} _{-1.1}	7.0 ^{+1.3} _{-1.3}	101 ⁺²⁰ ₋₂₀	1283	14.29 ^{+0.13} _{-0.13}	100.32 ^{+0.17} _{-0.17}	1.13E+38	1.88E+35
2376	58729.017287839	564.3 ^{+0.5} _{-0.5}	3.8 ^{+1.4} _{-1.4}	54 ⁺³ ₋₃	1421	9.17 ^{+0.08} _{-0.08}	35.08 ^{+0.11} _{-0.11}	3.96E+37	1.27E+35
2377	58729.017621666	563.5 ^{+1.1} _{-1.1}	2.0 ^{+0.2} _{-0.2}	101 ⁺²⁰ ₋₂₀	1283	86.70 ^{+6.75} _{-6.75}	175.13 ^{+1.21} _{-1.21}	1.87E+38	1.30E+36
2378	58729.017719904	562.0 ^{+1.1} _{-1.1}	4.7 ^{+1.9} _{-1.9}	56 ⁺¹⁸ ₋₁₈	1429	6.30 ^{+0.06} _{-0.06}	29.42 ^{+0.11} _{-0.11}	3.32E+37	1.20E+35
2379	58729.018600696	563.4 ^{+1.2} _{-1.2}	7.5 ^{+1.1} _{-1.1}	84 ⁺²³ ₋₂₃	1375	10.91 ^{+0.10} _{-0.10}	81.61 ^{+0.10} _{-0.10}	9.22E+37	1.18E+35
2380	58729.018629112	562.0 ^{+1.1} _{-1.1}	2.9 ^{+0.8} _{-0.8}	56 ⁺¹⁸ ₋₁₈	1429	10.10 ^{+8.98} _{-8.98}	29.09 ^{+71.98} _{-71.98}	3.11E+37	7.71E+37
2381	58729.018629109	563.4 ^{+1.2} _{-1.2}	4.3 ^{+0.3} _{-0.3}	84 ⁺²³ ₋₂₃	1375	647.47 ^{+38.89} _{-38.89}	2764.70 ^{+10.89} _{-10.89}	2.96E+39	1.17E+37
2382	58729.018629243	563.1 ^{+0.0} _{-0.0}	4.9 ^{+0.1} _{-0.1}	380 ⁺⁹⁰ ₋₉₀	1310	381.40 ^{+5.99} _{-5.99}	1865.05 ^{+0.66} _{-0.66}	2.00E+39	7.05E+35
2383	58729.018629328	563.1 ^{+0.0} _{-0.0}	4.7 ^{+0.2} _{-0.2}	489 ⁺¹⁴ ₋₁₄	1255	218.79 ^{+6.09} _{-6.09}	1030.50 ^{+1.10} _{-1.10}	1.10E+39	1.17E+36
2384	58729.018766883	562.5 ^{+1.3} _{-1.3}	2.3 ^{+0.6} _{-0.6}	63 ⁺⁴ ₋₄	1412	6.51 ^{+0.06} _{-0.06}	15.03 ^{+0.03} _{-0.03}	1.70E+37	3.60E+34
2385	58729.018767678	563.1 ^{+0.0} _{-0.0}	4.5 ^{+0.5} _{-0.5}	273 ⁺⁷ ₋₇	1163	50.70 ^{+4.78} _{-4.78}	228.15 ^{+2.34} _{-2.34}	2.44E+38	2.51E+36
2386	58729.018941279	562.5 ^{+1.3} _{-1.3}	3.0 ^{+0.0} _{-0.0}	63 ⁺⁴ ₋₄	1412	754.67 ^{+5.85} _{-5.85}	2264.01 ^{+0.18} _{-0.18}	2.42E+39	1.88E+35
2387	58729.018989662	562.4 ^{+1.2} _{-1.2}	6.5 ^{+1.5} _{-1.5}	123 ⁺⁸ ₋₈	1200	7.88 ^{+0.07} _{-0.07}	51.51 ^{+0.10} _{-0.10}	5.82E+37	1.17E+35
2388	58729.019038879	563.5 ^{+0.0} _{-0.0}	2.2 ^{+0.1} _{-0.1}	356 ⁺²⁴ ₋₂₄	1322	161.56 ^{+6.86} _{-6.86}	355.43 ^{+0.75} _{-0.75}	3.80E+38	8.08E+35
2389	58729.019209231	562.4 ^{+1.2} _{-1.2}	9.9 ^{+0.7} _{-0.7}	123 ⁺⁸ ₋₈	1200	51.12 ^{+3.18} _{-3.18}	504.55 ^{+2.35} _{-2.35}	5.40E+38	2.52E+36
2390	58729.019209259	562.8 ^{+0.4} _{-0.4}	8.9 ^{+1.0} _{-1.0}	217 ⁺¹⁹ ₋₁₉	1157	22.39 ^{+0.20} _{-0.20}	198.84 ^{+0.21} _{-0.21}	2.25E+38	2.38E+35
2391	58729.019255894	564.0 ^{+1.1} _{-1.1}	2.1 ^{+0.2} _{-0.2}	137 ⁺¹⁰ ₋₁₀	1245	18.50 ^{+0.17} _{-0.17}	38.53 ^{+0.04} _{-0.04}	4.35E+37	4.67E+34
2392	58729.019542614	562.4 ^{+0.8} _{-0.8}	6.5 ^{+1.2} _{-1.2}	112 ⁺¹⁵ ₋₁₅	1429	12.03 ^{+0.11} _{-0.11}	78.34 ^{+0.13} _{-0.13}	8.85E+37	1.50E+35
2393	58729.019542948	562.5 ^{+1.1} _{-1.1}	2.6 ^{+1.0} _{-1.0}	281 ⁺⁹⁶ ₋₉₆	1220	8.60 ^{+0.08} _{-0.08}	22.30 ^{+0.08} _{-0.08}	2.52E+37	8.71E+34
2394	58729.019584434	562.3 ^{+1.0} _{-1.0}	3.6 ^{+1.7} _{-1.7}	91 ⁺²⁶ ₋₂₆	1410	5.78 ^{+0.05} _{-0.05}	20.69 ^{+0.09} _{-0.09}	2.34E+37	9.72E+34
2395	58729.020095347	562.4 ^{+0.8} _{-0.8}	2.0 ^{+0.1} _{-0.1}	112 ⁺¹⁵ ₋₁₅	1429	277.29 ^{+7.26} _{-7.26}	560.13 ^{+0.44} _{-0.44}	6.00E+38	4.66E+35
2396	58729.020110383	562.9 ^{+1.0} _{-1.0}	3.1 ^{+0.8} _{-0.8}	84 ⁺²⁷ ₋₂₇	1415	8.17 ^{+0.07} _{-0.07}	25.42 ^{+0.06} _{-0.06}	2.87E+37	6.82E+34
2397	58729.020114865	562.0 ^{+1.0} _{-1.0}	2.0 ^{+0.4} _{-0.4}	112 ⁺⁸⁹ ₋₈₉	1368	12.02 ^{+0.11} _{-0.11}	24.42 ^{+0.04} _{-0.04}	2.76E+37	4.80E+34
2398	58729.020333230	561.2 ^{+0.8} _{-0.8}	6.3 ^{+2.3} _{-2.3}	148 ⁺⁵⁶ ₋₅₆	1214	6.48 ^{+0.06} _{-0.06}	40.77 ^{+0.14} _{-0.14}	4.61E+37	1.54E+35
2399	58729.020489285	562.4 ^{+1.3} _{-1.3}	3.7 ^{+1.1} _{-1.1}	77 ⁺¹⁴ ₋₁₄	1424	7.11 ^{+0.06} _{-0.06}	26.66 ^{+0.07} _{-0.07}	3.01E+37	7.85E+34
2400	58729.021228669	561.6 ^{+0.7} _{-0.7}	7.3 ^{+1.9} _{-1.9}	75 ⁺¹⁶ ₋₁₆	1219	7.95 ^{+0.07} _{-0.07}	58.32 ^{+0.14} _{-0.14}	6.59E+37	1.54E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2401	58729.021479901	564.7 ^{+1.1} _{-1.1}	4.1 ^{+0.7} _{-0.7}	97 ⁺⁴³ ₋₄₃	1363	12.45 ^{+0.12} _{-0.12}	51.41 ^{+0.08} _{-0.08}	5.81E+37	9.46E+34
2402	58729.021480335	561.7 ^{+0.8} _{-0.8}	4.8 ^{+1.7} _{-1.7}	82 ⁺³⁷ ₋₃₇	1209	7.97 ^{+0.07} _{-0.07}	38.46 ^{+0.12} _{-0.12}	4.35E+37	1.41E+35
2403	58729.022091074	564.2 ^{+0.9} _{-0.9}	3.6 ^{+0.5} _{-0.5}	79 ⁺⁴² ₋₄₂	1280	10.81 ^{+0.10} _{-0.10}	39.35 ^{+0.05} _{-0.05}	4.44E+37	5.27E+34
2404	58729.022504234	562.9 ^{+1.4} _{-1.4}	2.7 ^{+1.0} _{-1.0}	55 ⁺³⁰ ₋₃₀	1362	6.95 ^{+0.06} _{-0.06}	18.65 ^{+0.06} _{-0.06}	2.11E+37	7.14E+34
2405	58729.022551587	561.7 ^{+0.6} _{-0.6}	6.3 ^{+2.4} _{-2.4}	238 ⁺³ ₋₃	1215	6.32 ^{+0.06} _{-0.06}	39.60 ^{+0.14} _{-0.14}	4.48E+37	1.60E+35
2406	58729.022846450	561.1 ^{+0.8} _{-0.8}	3.0 ^{+1.2} _{-1.2}	69 ⁺¹⁷ ₋₁₇	1440	6.14 ^{+0.06} _{-0.06}	18.42 ^{+0.07} _{-0.07}	2.08E+37	8.03E+34
2407	58729.022990969	562.4 ^{+0.8} _{-0.8}	13.3 ^{+2.6} _{-2.6}	136 ⁺⁵⁸ ₋₅₈	1273	9.15 ^{+0.09} _{-0.09}	121.53 ^{+0.22} _{-0.22}	1.37E+38	2.46E+35
2408	58729.023388921	562.8 ^{+0.3} _{-0.3}	2.4 ^{+0.5} _{-0.5}	156 ⁺¹⁷ ₋₁₇	1416	15.10 ^{+0.14} _{-0.14}	35.67 ^{+0.07} _{-0.07}	4.03E+37	7.74E+34
2409	58729.023656839	562.4 ^{+0.8} _{-0.8}	6.5 ^{+0.9} _{-0.9}	136 ⁺⁵⁸ ₋₅₈	1273	8.06 ^{+0.07} _{-0.07}	52.72 ^{+0.56} _{-0.56}	5.64E+37	6.01E+35
2410	58729.023659120	564.2 ^{+0.8} _{-0.8}	4.0 ^{+1.0} _{-1.0}	103 ⁺⁴⁰ ₋₄₀	1221	10.80 ^{+0.10} _{-0.10}	43.63 ^{+0.10} _{-0.10}	4.93E+37	1.18E+35
2411	58729.023659414	561.6 ^{+0.3} _{-0.3}	2.5 ^{+2.8} _{-2.8}	115 ⁺⁸⁴ ₋₈₄	1382	2.28 ^{+0.02} _{-0.02}	5.66 ^{+0.06} _{-0.06}	6.39E+36	6.75E+34
2412	58729.023724083	561.9 ^{+1.1} _{-1.1}	5.4 ^{+0.8} _{-0.8}	51 ⁺³⁰ ₋₃₀	1368	4.42 ^{+0.04} _{-0.04}	24.02 ^{+0.25} _{-0.25}	2.57E+37	2.73E+35
2413	58729.023724108	563.6 ^{+0.4} _{-0.4}	5.1 ^{+1.6} _{-1.6}	159 ⁺⁴ ₋₄	1110	7.44 ^{+0.07} _{-0.07}	37.75 ^{+0.11} _{-0.11}	4.27E+37	1.21E+35
2414	58729.024009349	562.9 ^{+1.4} _{-1.4}	4.5 ^{+1.9} _{-1.9}	45 ⁺²² ₋₂₂	1429	8.75 ^{+0.08} _{-0.08}	39.58 ^{+0.15} _{-0.15}	4.47E+37	1.72E+35
2415	58729.024102136	563.5 ^{+1.3} _{-1.3}	5.1 ^{+1.0} _{-1.0}	64 ⁺²⁸ ₋₂₈	1339	11.22 ^{+0.10} _{-0.10}	57.41 ^{+0.10} _{-0.10}	6.49E+37	1.15E+35
2416	58729.024519774	564.0 ^{+1.0} _{-1.0}	3.2 ^{+0.3} _{-0.3}	57 ⁺⁴² ₋₄₂	1380	74.67 ^{+5.89} _{-5.89}	235.21 ^{+1.77} _{-1.77}	2.52E+38	1.89E+36
2417	58729.024519863	563.0 ^{+0.1} _{-0.1}	4.0 ^{+0.1} _{-0.1}	348 ⁺¹¹ ₋₁₁	1307	146.48 ^{+1.38} _{-1.38}	586.45 ^{+0.12} _{-0.12}	6.63E+38	1.31E+35
2418	58729.024520008	563.0 ^{+0.1} _{-0.1}	1.8 ^{+0.1} _{-0.1}	235 ⁺⁶ ₋₆	1120	67.73 ^{+0.64} _{-0.64}	118.59 ^{+0.04} _{-0.04}	1.34E+38	3.97E+34
2419	58729.024584789	562.9 ^{+1.4} _{-1.4}	5.0 ^{+2.3} _{-2.3}	59 ⁺⁴ ₋₄	1108	7.47 ^{+0.07} _{-0.07}	37.30 ^{+0.16} _{-0.16}	4.21E+37	1.81E+35
2420	58729.024692960	563.0 ^{+1.4} _{-1.4}	5.6 ^{+2.0} _{-2.0}	96 ⁺²² ₋₂₂	1115	8.44 ^{+0.08} _{-0.08}	47.19 ^{+0.16} _{-0.16}	5.33E+37	1.81E+35
2421	58729.025223148	562.8 ^{+1.1} _{-1.1}	7.4 ^{+2.0} _{-2.0}	102 ⁺⁵ ₋₅	1390	7.75 ^{+0.07} _{-0.07}	57.22 ^{+0.14} _{-0.14}	6.47E+37	1.63E+35
2422	58729.025223536	563.6 ^{+1.2} _{-1.2}	2.6 ^{+1.2} _{-1.2}	126 ⁺⁹⁹ ₋₉₉	1250	6.71 ^{+0.06} _{-0.06}	17.25 ^{+0.08} _{-0.08}	1.95E+37	8.62E+34
2423	58729.025318362	562.8 ^{+1.1} _{-1.1}	6.8 ^{+0.7} _{-0.7}	102 ⁺⁵ ₋₅	1390	43.51 ^{+3.90} _{-3.90}	298.04 ^{+2.85} _{-2.85}	3.19E+38	3.05E+36
2424	58729.025442351	564.3 ^{+0.3} _{-0.3}	2.2 ^{+0.3} _{-0.3}	114 ⁺⁵⁴ ₋₅₄	1161	16.79 ^{+0.16} _{-0.16}	36.54 ^{+0.05} _{-0.05}	4.13E+37	5.46E+34
2425	58729.026047074	563.0 ^{+1.0} _{-1.0}	3.4 ^{+0.8} _{-0.8}	112 ⁺⁵ ₋₅	1168	7.49 ^{+0.07} _{-0.07}	25.70 ^{+0.06} _{-0.06}	2.90E+37	6.37E+34
2426	58729.026434908	564.0 ^{+1.3} _{-1.3}	4.2 ^{+1.1} _{-1.1}	81 ⁺¹⁸ ₋₁₈	1426	12.80 ^{+0.12} _{-0.12}	53.75 ^{+0.13} _{-0.13}	6.07E+37	1.46E+35
2427	58729.026568252	564.6 ^{+0.5} _{-0.5}	2.7 ^{+1.0} _{-1.0}	56 ⁺⁴ ₋₄	1418	9.10 ^{+0.09} _{-0.09}	25.00 ^{+0.09} _{-0.09}	2.82E+37	1.03E+35
2428	58729.026580438	562.6 ^{+1.1} _{-1.1}	1.4 ^{+0.5} _{-0.5}	59 ⁺³ ₋₃	1415	8.86 ^{+0.08} _{-0.08}	12.58 ^{+0.04} _{-0.04}	1.42E+37	4.56E+34
2429	58729.026736037	562.2 ^{+1.1} _{-1.1}	5.5 ^{+1.7} _{-1.7}	97 ⁺⁵⁴ ₋₅₄	1234	8.86 ^{+0.09} _{-0.09}	48.70 ^{+0.15} _{-0.15}	5.50E+37	1.67E+35
2430	58729.027147913	563.7 ^{+1.3} _{-1.3}	2.1 ^{+0.5} _{-0.5}	102 ⁺³ ₋₃	1351	13.18 ^{+0.13} _{-0.13}	27.44 ^{+0.06} _{-0.06}	3.10E+37	6.72E+34
2431	58729.027148069	562.9 ^{+1.4} _{-1.4}	3.7 ^{+1.4} _{-1.4}	233 ⁺⁹⁰ ₋₉₀	1204	5.57 ^{+0.05} _{-0.05}	20.35 ^{+0.07} _{-0.07}	2.30E+37	8.34E+34
2432	58729.027370837	560.8 ^{+0.7} _{-0.7}	7.7 ^{+2.1} _{-2.1}	51 ⁺¹³ ₋₁₃	1401	6.20 ^{+0.06} _{-0.06}	47.98 ^{+0.12} _{-0.12}	5.42E+37	1.41E+35
2433	58729.027371325	563.8 ^{+0.6} _{-0.6}	4.0 ^{+1.1} _{-1.1}	221 ⁺⁴ ₋₄	1226	10.18 ^{+0.10} _{-0.10}	40.32 ^{+0.11} _{-0.11}	4.56E+37	1.25E+35
2434	58729.027553505	563.0 ^{+1.3} _{-1.3}	7.9 ^{+3.1} _{-3.1}	195 ⁺³² ₋₃₂	1320	6.84 ^{+0.07} _{-0.07}	54.21 ^{+0.20} _{-0.20}	6.13E+37	2.28E+35
2435	58729.027638675	564.3 ^{+1.1} _{-1.1}	5.3 ^{+0.6} _{-0.6}	164 ⁺³⁰ ₋₃₀	1386	47.04 ^{+4.41} _{-4.41}	247.90 ^{+2.56} _{-2.56}	2.65E+38	2.74E+36
2436	58729.027659856	565.0 ^{+0.9} _{-0.9}	3.9 ^{+0.7} _{-0.7}	95 ⁺²⁸ ₋₂₈	1365	16.01 ^{+0.15} _{-0.15}	62.99 ^{+0.10} _{-0.10}	7.12E+37	1.14E+35
2437	58729.027844134	563.1 ^{+1.2} _{-1.2}	2.7 ^{+0.7} _{-0.7}	66 ⁺⁴¹ ₋₄₁	1404	9.41 ^{+0.09} _{-0.09}	25.20 ^{+0.06} _{-0.06}	2.85E+37	7.15E+34
2438	58729.028174209	563.3 ^{+1.3} _{-1.3}	3.4 ^{+1.1} _{-1.1}	92 ⁺¹⁹ ₋₁₉	1369	9.01 ^{+0.09} _{-0.09}	30.39 ^{+0.09} _{-0.09}	3.43E+37	1.07E+35
2439	58729.028593414	562.9 ^{+1.2} _{-1.2}	9.5 ^{+1.7} _{-1.7}	129 ⁺¹⁶ ₋₁₆	1241	11.02 ^{+0.11} _{-0.11}	104.56 ^{+0.18} _{-0.18}	1.18E+38	2.06E+35
2440	58729.028840969	561.5 ^{+0.8} _{-0.8}	6.5 ^{+2.2} _{-2.2}	82 ⁺⁴ ₋₄	1362	8.24 ^{+0.08} _{-0.08}	53.73 ^{+0.18} _{-0.18}	6.07E+37	2.05E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2441	58729.028887713	564.4 ^{+0.5} _{-0.5}	3.0 ^{+0.5} _{-0.5}	87 ⁺³¹ ₋₃₁	1327	12.10 ^{+0.12} _{-0.12}	36.61 ^{+0.06} _{-0.06}	4.14E+37	7.09E+34
2442	58729.029093779	562.3 ^{+0.9} _{-0.9}	2.8 ^{+0.5} _{-0.5}	111 ⁺¹⁶ ₋₁₆	1422	12.72 ^{+0.12} _{-0.12}	35.35 ^{+0.07} _{-0.07}	3.99E+37	7.58E+34
2443	58729.029171921	562.9 ^{+0.8} _{-0.8}	4.2 ^{+1.6} _{-1.6}	177 ⁺⁹² ₋₉₂	1253	7.33 ^{+0.07} _{-0.07}	30.70 ^{+0.12} _{-0.12}	3.47E+37	1.30E+35
2444	58729.029368655	562.7 ^{+1.1} _{-1.1}	5.0 ^{+1.4} _{-1.4}	75 ⁺³⁷ ₋₃₇	1323	8.13 ^{+0.08} _{-0.08}	40.55 ^{+0.11} _{-0.11}	4.58E+37	1.22E+35
2445	58729.029666180	564.5 ^{+0.7} _{-0.7}	3.9 ^{+0.7} _{-0.7}	162 ⁺⁵⁶ ₋₅₆	1226	14.90 ^{+0.15} _{-0.15}	58.26 ^{+0.10} _{-0.10}	6.58E+37	1.17E+35
2446	58729.029893818	562.4 ^{+0.8} _{-0.8}	14.2 ^{+2.6} _{-2.6}	194 ⁺¹⁹ ₋₁₉	1392	14.51 ^{+0.14} _{-0.14}	205.98 ^{+0.37} _{-0.37}	2.33E+38	4.22E+35
2447	58729.030164631	564.4 ^{+0.6} _{-0.6}	8.9 ^{+1.8} _{-1.8}	114 ⁺¹⁸ ₋₁₈	1173	10.78 ^{+0.11} _{-0.11}	95.63 ^{+0.19} _{-0.19}	1.08E+38	2.18E+35
2448	58729.030203843	562.3 ^{+0.9} _{-0.9}	4.9 ^{+1.7} _{-1.7}	125 ⁺⁴² ₋₄₂	1328	6.38 ^{+0.06} _{-0.06}	31.03 ^{+0.11} _{-0.11}	3.51E+37	1.19E+35
2449	58729.030209147	563.3 ^{+1.0} _{-1.0}	4.0 ^{+1.4} _{-1.4}	131 ⁺⁸ ₋₈	1382	7.87 ^{+0.08} _{-0.08}	31.85 ^{+0.11} _{-0.11}	3.60E+37	1.19E+35
2450	58729.030386052	563.5 ^{+1.2} _{-1.2}	9.8 ^{+1.7} _{-1.7}	254 ⁺⁶⁸ ₋₆₈	1257	11.85 ^{+0.12} _{-0.12}	115.85 ^{+0.20} _{-0.20}	1.31E+38	2.21E+35
2451	58729.030386591	562.9 ^{+1.3} _{-1.3}	2.5 ^{+0.6} _{-0.6}	97 ⁺⁴ ₋₄	1343	6.75 ^{+0.07} _{-0.07}	16.81 ^{+0.04} _{-0.04}	1.90E+37	4.84E+34
2452	58729.030543346	565.1 ^{+0.3} _{-0.3}	3.2 ^{+0.5} _{-0.5}	190 ⁺³⁵ ₋₃₅	1328	19.08 ^{+0.19} _{-0.19}	61.63 ^{+0.10} _{-0.10}	6.96E+37	1.10E+35
2453	58729.030543671	562.1 ^{+1.2} _{-1.2}	1.9 ^{+1.5} _{-1.5}	46 ⁺⁶ ₋₆	1384	3.02 ^{+0.03} _{-0.03}	5.81 ^{+0.04} _{-0.04}	6.56E+36	5.07E+34
2454	58729.030673199	561.3 ^{+0.9} _{-0.9}	9.7 ^{+2.2} _{-2.2}	83 ⁺¹¹ ₋₁₁	1392	7.83 ^{+0.08} _{-0.08}	75.61 ^{+0.17} _{-0.17}	8.54E+37	1.92E+35
2455	58729.030695419	561.7 ^{+0.9} _{-0.9}	8.5 ^{+0.9} _{-0.9}	99 ⁺⁵⁴ ₋₅₄	1308	10.23 ^{+0.10} _{-0.10}	86.68 ^{+0.09} _{-0.09}	9.80E+37	1.05E+35
2456	58729.030814816	566.3 ^{+0.4} _{-0.4}	2.3 ^{+0.2} _{-0.2}	264 ⁺⁷⁴ ₋₇₄	1362	96.78 ^{+6.54} _{-6.54}	223.56 ^{+1.31} _{-1.31}	2.39E+38	1.40E+36
2457	58729.030814872	566.3 ^{+0.3} _{-0.3}	4.3 ^{+0.1} _{-0.1}	207 ⁺²¹ ₋₂₁	1393	208.79 ^{+4.94} _{-4.94}	893.62 ^{+0.69} _{-0.69}	9.57E+38	7.40E+35
2458	58729.031447831	564.6 ^{+0.6} _{-0.6}	3.2 ^{+0.4} _{-0.4}	118 ⁺²⁰ ₋₂₀	1425	16.64 ^{+0.17} _{-0.17}	53.88 ^{+0.07} _{-0.07}	6.09E+37	8.32E+34
2459	58729.031449327	562.8 ^{+1.2} _{-1.2}	1.7 ^{+0.5} _{-0.5}	138 ⁺⁹ ₋₉	1108	6.68 ^{+0.07} _{-0.07}	11.22 ^{+0.03} _{-0.03}	1.27E+37	3.62E+34
2460	58729.031449525	562.7 ^{+0.7} _{-0.7}	6.7 ^{+2.1} _{-2.1}	342 ⁺⁴ ₋₄	1219	8.76 ^{+0.09} _{-0.09}	58.52 ^{+0.18} _{-0.18}	6.61E+37	2.06E+35
2461	58729.031626353	566.3 ^{+0.3} _{-0.3}	5.5 ^{+0.4} _{-0.4}	312 ⁺²⁸ ₋₂₈	1343	76.28 ^{+4.29} _{-4.29}	416.49 ^{+1.54} _{-1.54}	4.46E+38	1.65E+36
2462	58729.031976682	561.9 ^{+1.2} _{-1.2}	3.4 ^{+0.8} _{-0.8}	168 ⁺¹⁸³ ₋₁₈₃	1211	7.37 ^{+0.07} _{-0.07}	24.70 ^{+0.06} _{-0.06}	2.79E+37	6.23E+34
2463	58729.032298762	563.3 ^{+0.3} _{-0.3}	2.9 ^{+0.4} _{-0.4}	81 ⁺³¹ ₋₃₁	1094	16.44 ^{+0.16} _{-0.16}	46.95 ^{+0.07} _{-0.07}	5.31E+37	8.08E+34
2464	58729.033591096	563.5 ^{+1.2} _{-1.2}	3.3 ^{+0.8} _{-0.8}	67 ⁺⁴ ₋₄	1395	9.21 ^{+0.09} _{-0.09}	30.06 ^{+0.08} _{-0.08}	3.40E+37	8.98E+34
2465	58729.033621967	563.5 ^{+1.1} _{-1.1}	6.6 ^{+1.3} _{-1.3}	112 ⁺²⁸ ₋₂₈	1139	10.61 ^{+0.11} _{-0.11}	70.05 ^{+0.15} _{-0.15}	7.92E+37	1.64E+35
2466	58729.033892568	564.7 ^{+0.9} _{-0.9}	2.4 ^{+0.5} _{-0.5}	77 ⁺²⁵ ₋₂₅	1405	12.86 ^{+0.13} _{-0.13}	31.36 ^{+0.06} _{-0.06}	3.54E+37	6.82E+34
2467	58729.033970200	564.6 ^{+0.8} _{-0.8}	6.0 ^{+1.0} _{-1.0}	154 ⁺⁵⁹ ₋₅₉	1367	9.85 ^{+0.10} _{-0.10}	59.28 ^{+0.10} _{-0.10}	6.70E+37	1.09E+35
2468	58729.034702016	562.9 ^{+1.1} _{-1.1}	3.8 ^{+1.0} _{-1.0}	84 ⁺⁷⁷ ₋₇₇	1353	9.60 ^{+0.10} _{-0.10}	36.72 ^{+0.10} _{-0.10}	4.15E+37	1.11E+35
2469	58729.034715736	562.9 ^{+1.1} _{-1.1}	6.6 ^{+1.6} _{-1.6}	76 ⁺⁴⁶ ₋₄₆	1155	8.60 ^{+0.09} _{-0.09}	56.86 ^{+0.14} _{-0.14}	6.43E+37	1.61E+35
2470	58729.034873187	562.8 ^{+1.2} _{-1.2}	1.9 ^{+0.2} _{-0.2}	138 ⁺⁹ ₋₉	1108	97.10 ^{+7.52} _{-7.52}	186.43 ^{+1.35} _{-1.35}	2.00E+38	1.45E+36
2471	58729.035872694	561.9 ^{+1.0} _{-1.0}	6.0 ^{+2.4} _{-2.4}	112 ⁺⁴ ₋₄	1350	6.02 ^{+0.06} _{-0.06}	35.89 ^{+0.15} _{-0.15}	4.06E+37	1.67E+35
2472	58729.035912652	563.6 ^{+0.7} _{-0.7}	7.4 ^{+0.9} _{-0.9}	110 ⁺¹³ ₋₁₃	1419	12.30 ^{+0.13} _{-0.13}	91.36 ^{+0.12} _{-0.12}	1.03E+38	1.31E+35
2473	58729.035912747	563.0 ^{+0.8} _{-0.8}	8.9 ^{+1.6} _{-1.6}	85 ⁺¹³ ₋₁₃	1346	10.88 ^{+0.11} _{-0.11}	96.97 ^{+0.18} _{-0.18}	1.10E+38	1.99E+35
2474	58729.036247341	563.6 ^{+1.0} _{-1.0}	3.7 ^{+0.7} _{-0.7}	117 ⁺²⁰ ₋₂₀	1421	13.60 ^{+0.14} _{-0.14}	50.98 ^{+0.09} _{-0.09}	5.76E+37	1.04E+35
2475	58729.036467781	564.7 ^{+0.9} _{-0.9}	3.4 ^{+0.5} _{-0.5}	71 ⁺²⁸ ₋₂₈	1360	13.32 ^{+0.14} _{-0.14}	44.96 ^{+0.08} _{-0.08}	5.08E+37	8.51E+34
2476	58729.036608649	562.7 ^{+1.1} _{-1.1}	3.7 ^{+1.0} _{-1.0}	88 ⁺⁴² ₋₄₂	1334	9.43 ^{+0.10} _{-0.10}	35.02 ^{+0.10} _{-0.10}	3.96E+37	1.13E+35
2477	58729.036858293	564.3 ^{+0.6} _{-0.6}	3.1 ^{+0.2} _{-0.2}	145 ⁺¹² ₋₁₂	1169	32.15 ^{+0.33} _{-0.33}	99.48 ^{+0.07} _{-0.07}	1.12E+38	8.04E+34
2478	58729.036932424	562.6 ^{+1.2} _{-1.2}	3.0 ^{+0.7} _{-0.7}	143 ⁺⁴³ ₋₄₃	1322	10.11 ^{+0.10} _{-0.10}	30.18 ^{+0.07} _{-0.07}	3.41E+37	8.13E+34
2479	58729.037114040	564.4 ^{+0.9} _{-0.9}	3.5 ^{+0.5} _{-0.5}	109 ⁺³³ ₋₃₃	1397	16.54 ^{+0.17} _{-0.17}	57.09 ^{+0.08} _{-0.08}	6.45E+37	9.10E+34
2480	58729.037176994	563.8 ^{+0.9} _{-0.9}	4.0 ^{+0.6} _{-0.6}	79 ⁺³⁰ ₋₃₀	1157	13.74 ^{+0.14} _{-0.14}	54.41 ^{+0.09} _{-0.09}	6.15E+37	1.02E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2481	58729.037485934	562.9 ^{+1.4} _{-1.4}	4.9 ^{+1.1} _{-1.1}	76 ⁺¹⁸ ₋₁₈	1108	7.76 ^{+0.08} _{-0.08}	38.38 ^{+0.09} _{-0.09}	4.34E+37	1.04E+35
2482	58729.037651185	562.2 ^{+0.6} _{-0.6}	7.6 ^{+1.4} _{-1.4}	98 ⁺¹⁴ ₋₁₄	1373	9.68 ^{+0.10} _{-0.10}	73.78 ^{+0.14} _{-0.14}	8.34E+37	1.57E+35
2483	58729.037777165	563.1 ^{+0.9} _{-0.9}	3.5 ^{+0.4} _{-0.4}	81 ⁺¹³ ₋₁₃	1441	16.45 ^{+0.17} _{-0.17}	57.07 ^{+0.06} _{-0.06}	6.45E+37	6.80E+34
2484	58729.037777913	562.2 ^{+0.6} _{-0.6}	1.8 ^{+0.4} _{-0.4}	98 ⁺¹⁴ ₋₁₄	1373	88.94 ^{+36.51} _{-36.51}	160.09 ^{+13.87} _{-13.87}	1.71E+38	1.49E+37
2485	58729.037777917	563.1 ^{+0.9} _{-0.9}	3.1 ^{+0.6} _{-0.6}	81 ⁺¹³ ₋₁₃	1441	128.21 ^{+10.65} _{-10.65}	396.17 ^{+6.50} _{-6.50}	4.24E+38	6.95E+36
2486	58729.037778133	565.3 ^{+1.7} _{-1.7}	2.5 ^{+0.5} _{-0.5}	94 ⁺⁵ ₋₅	1193	9.43 ^{+0.10} _{-0.10}	23.76 ^{+0.05} _{-0.05}	2.68E+37	5.58E+34
2487	58729.037901088	563.5 ^{+0.4} _{-0.4}	7.5 ^{+1.1} _{-1.1}	339 ⁺¹⁶ ₋₁₆	1301	3.33 ^{+0.04} _{-0.04}	24.93 ^{+0.30} _{-0.30}	2.67E+37	3.20E+35
2488	58729.037990235	563.8 ^{+0.8} _{-0.8}	4.2 ^{+0.9} _{-0.9}	114 ⁺⁶ ₋₆	1256	10.26 ^{+0.11} _{-0.11}	43.43 ^{+0.10} _{-0.10}	4.91E+37	1.15E+35
2489	58729.038020781	561.8 ^{+0.9} _{-0.9}	1.6 ^{+0.2} _{-0.2}	73 ⁺⁶ ₋₆	1405	15.44 ^{+0.16} _{-0.16}	24.15 ^{+0.03} _{-0.03}	2.73E+37	3.37E+34
2490	58729.038020873	563.1 ^{+1.4} _{-1.4}	4.4 ^{+1.0} _{-1.0}	78 ⁺⁵ ₋₅	1378	7.40 ^{+0.08} _{-0.08}	32.75 ^{+0.08} _{-0.08}	3.70E+37	8.99E+34
2491	58729.038138072	563.2 ^{+1.2} _{-1.2}	6.1 ^{+1.0} _{-1.0}	91 ⁺⁵⁵ ₋₅₅	1206	11.78 ^{+0.12} _{-0.12}	71.97 ^{+0.12} _{-0.12}	8.13E+37	1.38E+35
2492	58729.038408905	563.6 ^{+1.0} _{-1.0}	4.2 ^{+0.6} _{-0.6}	148 ⁺⁴³ ₋₄₃	1306	14.08 ^{+0.15} _{-0.15}	59.60 ^{+0.09} _{-0.09}	6.74E+37	9.73E+34
2493	58729.038609840	564.0 ^{+0.6} _{-0.6}	2.5 ^{+0.2} _{-0.2}	55 ⁺³⁹ ₋₃₉	1125	20.74 ^{+0.22} _{-0.22}	52.71 ^{+0.05} _{-0.05}	5.96E+37	5.54E+34
2494	58729.039048565	564.2 ^{+0.9} _{-0.9}	3.4 ^{+0.7} _{-0.7}	91 ⁺⁴⁰ ₋₄₀	1318	12.17 ^{+0.13} _{-0.13}	41.38 ^{+0.09} _{-0.09}	4.68E+37	9.84E+34
2495	58729.039075870	563.7 ^{+1.3} _{-1.3}	1.6 ^{+0.4} _{-0.4}	75 ⁺¹¹ ₋₁₁	1429	8.36 ^{+0.09} _{-0.09}	13.64 ^{+0.04} _{-0.04}	1.54E+37	4.26E+34
2496	58729.039942443	563.6 ^{+0.5} _{-0.5}	4.1 ^{+1.0} _{-1.0}	87 ⁺⁴ ₋₄	1078	8.25 ^{+0.09} _{-0.09}	33.85 ^{+0.09} _{-0.09}	3.83E+37	9.88E+34
2497	58729.040052613	562.8 ^{+0.6} _{-0.6}	4.4 ^{+1.0} _{-1.0}	244 ⁺⁴ ₋₄	1281	10.03 ^{+0.11} _{-0.11}	43.64 ^{+0.11} _{-0.11}	4.93E+37	1.20E+35
2498	58729.040214738	564.1 ^{+0.9} _{-0.9}	2.3 ^{+0.4} _{-0.4}	110 ⁺⁵¹ ₋₅₁	1383	14.54 ^{+0.16} _{-0.16}	33.63 ^{+0.06} _{-0.06}	3.80E+37	7.23E+34
2499	58729.040417817	564.9 ^{+0.8} _{-0.8}	3.5 ^{+0.8} _{-0.8}	69 ⁺³ ₋₃	1417	8.28 ^{+0.09} _{-0.09}	28.99 ^{+0.07} _{-0.07}	3.28E+37	8.41E+34
2500	58729.040509837	565.1 ^{+0.6} _{-0.6}	4.9 ^{+0.8} _{-0.8}	122 ⁺⁴¹ ₋₄₁	1378	13.83 ^{+0.15} _{-0.15}	67.85 ^{+0.12} _{-0.12}	7.67E+37	1.41E+35
2501	58729.041374764	560.9 ^{+0.5} _{-0.5}	7.9 ^{+2.5} _{-2.5}	127 ⁺⁴⁶ ₋₄₆	1330	7.10 ^{+0.08} _{-0.08}	56.38 ^{+0.19} _{-0.19}	6.37E+37	2.15E+35
2502	58729.041886392	563.7 ^{+1.0} _{-1.0}	3.9 ^{+0.8} _{-0.8}	121 ⁺³⁹ ₋₃₉	1430	8.79 ^{+0.10} _{-0.10}	34.22 ^{+0.08} _{-0.08}	3.87E+37	8.63E+34
2503	58729.042298759	563.4 ^{+1.2} _{-1.2}	4.2 ^{+0.5} _{-0.5}	132 ⁺⁷¹ ₋₇₁	1339	10.25 ^{+0.11} _{-0.11}	42.88 ^{+0.06} _{-0.06}	4.85E+37	6.35E+34
2504	58729.042538804	564.8 ^{+0.5} _{-0.5}	3.2 ^{+0.5} _{-0.5}	96 ⁺¹⁸ ₋₁₈	1370	16.78 ^{+0.18} _{-0.18}	54.35 ^{+0.09} _{-0.09}	6.14E+37	1.04E+35
2505	58729.042896711	564.3 ^{+1.2} _{-1.2}	4.0 ^{+0.8} _{-0.8}	74 ⁺²⁵ ₋₂₅	1432	11.02 ^{+0.12} _{-0.12}	44.31 ^{+0.09} _{-0.09}	5.01E+37	1.07E+35
2506	58729.042916716	563.3 ^{+1.1} _{-1.1}	9.0 ^{+1.6} _{-1.6}	69 ⁺³⁸ ₋₃₈	1295	8.07 ^{+0.09} _{-0.09}	72.67 ^{+0.14} _{-0.14}	8.21E+37	1.62E+35
2507	58729.043126314	563.5 ^{+1.0} _{-1.0}	3.1 ^{+0.4} _{-0.4}	63 ⁺⁵⁴ ₋₅₄	1392	7.27 ^{+0.08} _{-0.08}	22.47 ^{+0.28} _{-0.28}	2.41E+37	2.99E+35
2508	58729.043297910	563.1 ^{+1.2} _{-1.2}	4.1 ^{+1.4} _{-1.4}	74 ⁺⁸ ₋₈	1419	7.52 ^{+0.08} _{-0.08}	30.47 ^{+0.11} _{-0.11}	3.44E+37	1.28E+35
2509	58729.044085551	562.2 ^{+1.1} _{-1.1}	2.4 ^{+0.9} _{-0.9}	391 ⁺²⁴ ₋₂₄	1223	5.21 ^{+0.06} _{-0.06}	12.45 ^{+0.05} _{-0.05}	1.41E+37	5.61E+34
2510	58729.044130738	562.3 ^{+0.1} _{-0.1}	5.5 ^{+0.5} _{-0.5}	479 ⁺¹³ ₋₁₃	1252	180.85 ^{+33.50} _{-33.50}	996.48 ^{+17.76} _{-17.76}	1.07E+39	1.90E+37
2511	58729.044130801	562.4 ^{+0.1} _{-0.1}	10.5 ^{+1.8} _{-1.8}	490 ⁺⁵ ₋₅	1254	97.97 ^{+12.66} _{-12.66}	1027.71 ^{+23.04} _{-23.04}	1.10E+39	2.47E+37
2512	58729.044538975	564.9 ^{+0.6} _{-0.6}	3.3 ^{+0.5} _{-0.5}	89 ⁺¹⁷ ₋₁₇	1358	15.37 ^{+0.17} _{-0.17}	51.23 ^{+0.08} _{-0.08}	5.79E+37	8.93E+34
2513	58729.044671345	563.8 ^{+0.2} _{-0.2}	4.6 ^{+0.4} _{-0.4}	110 ⁺⁴¹ ₋₄₁	1419	18.45 ^{+0.20} _{-0.20}	84.38 ^{+0.08} _{-0.08}	9.53E+37	8.90E+34
2514	58729.044975624	563.6 ^{+1.0} _{-1.0}	3.1 ^{+0.8} _{-0.8}	59 ⁺¹⁹ ₋₁₉	1418	7.52 ^{+0.08} _{-0.08}	23.47 ^{+0.07} _{-0.07}	2.65E+37	7.79E+34
2515	58729.045659076	562.9 ^{+1.3} _{-1.3}	8.3 ^{+3.0} _{-3.0}	96 ⁺¹⁸⁸ ₋₁₈₈	1400	6.89 ^{+0.08} _{-0.08}	57.13 ^{+0.23} _{-0.23}	6.46E+37	2.57E+35
2516	58729.046398386	563.6 ^{+1.0} _{-1.0}	6.8 ^{+0.6} _{-0.6}	59 ⁺¹⁹ ₋₁₉	1418	58.74 ^{+4.39} _{-4.39}	398.84 ^{+2.63} _{-2.63}	4.27E+38	2.82E+36
2517	58729.046728660	562.5 ^{+1.3} _{-1.3}	3.4 ^{+0.9} _{-0.9}	81 ⁺³⁸ ₋₃₈	1433	7.26 ^{+0.08} _{-0.08}	24.80 ^{+0.07} _{-0.07}	2.80E+37	8.28E+34
2518	58729.046912948	563.8 ^{+1.1} _{-1.1}	3.2 ^{+0.5} _{-0.5}	72 ⁺²¹ ₋₂₁	1435	9.35 ^{+0.10} _{-0.10}	29.50 ^{+0.05} _{-0.05}	3.33E+37	5.91E+34
2519	58729.047023582	564.2 ^{+0.9} _{-0.9}	5.7 ^{+1.3} _{-1.3}	49 ⁺⁴ ₋₄	1441	9.32 ^{+0.10} _{-0.10}	53.47 ^{+0.14} _{-0.14}	6.04E+37	1.58E+35
2520	58729.047542414	563.7 ^{+1.2} _{-1.2}	2.7 ^{+1.9} _{-1.9}	53 ⁺⁴ ₋₄	1420	5.49 ^{+0.06} _{-0.06}	14.74 ^{+0.12} _{-0.12}	1.67E+37	1.30E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2521	58729.047542861	563.7 ^{+1.3} _{-1.3}	3.4 ^{+0.9} _{-0.9}	54 ⁺³⁰ ₋₃₀	1372	11.40 ^{+0.13} _{-0.13}	39.15 ^{+0.11} _{-0.11}	4.42E+37	1.25E+35
2522	58729.047542980	564.6 ^{+0.8} _{-0.8}	6.5 ^{+1.3} _{-1.3}	74 ⁺⁵ ₋₅	1407	12.45 ^{+0.14} _{-0.14}	80.56 ^{+0.18} _{-0.18}	9.10E+37	2.08E+35
2523	58729.047543504	563.1 ^{+1.3} _{-1.3}	5.2 ^{+3.0} _{-3.0}	49 ⁺¹¹ ₋₁₁	1430	6.04 ^{+0.07} _{-0.07}	31.29 ^{+0.21} _{-0.21}	3.54E+37	2.33E+35
2524	58729.047864980	564.4 ^{+1.0} _{-1.0}	6.4 ^{+2.4} _{-2.4}	71 ⁺²⁸ ₋₂₈	1389	6.82 ^{+0.08} _{-0.08}	43.47 ^{+0.19} _{-0.19}	4.91E+37	2.10E+35
2525	58729.047941435	563.4 ^{+0.9} _{-0.9}	2.2 ^{+0.2} _{-0.2}	317 ⁺¹³ ₋₁₃	1272	118.53 ^{+7.93} _{-7.93}	261.95 ^{+1.35} _{-1.35}	2.80E+38	1.44E+36
2526	58729.048260231	564.0 ^{+1.0} _{-1.0}	7.6 ^{+2.0} _{-2.0}	53 ⁺¹⁹ ₋₁₉	1404	6.71 ^{+0.08} _{-0.08}	50.94 ^{+0.15} _{-0.15}	5.76E+37	1.71E+35
2527	58729.048260739	563.5 ^{+1.1} _{-1.1}	7.0 ^{+1.6} _{-1.6}	68 ⁺¹⁸ ₋₁₈	1122	8.09 ^{+0.09} _{-0.09}	56.38 ^{+0.14} _{-0.14}	6.37E+37	1.62E+35
2528	58729.048973825	562.5 ^{+1.2} _{-1.2}	8.6 ^{+2.3} _{-2.3}	95 ⁺⁵⁰ ₋₅₀	1081	8.19 ^{+0.09} _{-0.09}	70.41 ^{+0.22} _{-0.22}	7.96E+37	2.46E+35
2529	58729.050118021	566.0 ^{+0.7} _{-0.7}	4.5 ^{+0.3} _{-0.3}	366 ⁺³⁷ ₋₃₇	1294	112.00 ^{+5.47} _{-5.47}	501.76 ^{+1.42} _{-1.42}	5.37E+38	1.52E+36
2530	58729.050273636	563.8 ^{+1.2} _{-1.2}	9.4 ^{+2.7} _{-2.7}	93 ⁺¹³ ₋₁₃	1107	10.38 ^{+0.12} _{-0.12}	97.79 ^{+0.32} _{-0.32}	1.10E+38	3.67E+35
2531	58729.050550493	563.4 ^{+1.2} _{-1.2}	2.2 ^{+0.9} _{-0.9}	88 ⁺⁴ ₋₄	1382	7.04 ^{+0.08} _{-0.08}	15.25 ^{+0.07} _{-0.07}	1.72E+37	8.26E+34
2532	58729.050550751	563.2 ^{+0.4} _{-0.4}	2.1 ^{+0.5} _{-0.5}	115 ⁺³⁸ ₋₃₈	1154	9.20 ^{+0.11} _{-0.11}	19.08 ^{+0.06} _{-0.06}	2.16E+37	6.53E+34
2533	58729.050727712	563.0 ^{+1.2} _{-1.2}	4.1 ^{+0.7} _{-0.7}	55 ⁺⁹ ₋₉	1419	11.43 ^{+0.13} _{-0.13}	46.74 ^{+0.10} _{-0.10}	5.28E+37	1.09E+35
2534	58729.050756913	563.9 ^{+0.8} _{-0.8}	2.6 ^{+0.9} _{-0.9}	58 ⁺¹⁸ ₋₁₈	1441	6.56 ^{+0.08} _{-0.08}	17.01 ^{+0.06} _{-0.06}	1.92E+37	7.34E+34
2535	58729.050757045	564.6 ^{+0.4} _{-0.4}	8.0 ^{+0.9} _{-0.9}	167 ⁺¹⁰ ₋₁₀	1411	13.96 ^{+0.16} _{-0.16}	112.35 ^{+0.15} _{-0.15}	1.27E+38	1.72E+35
2536	58729.050757622	563.5 ^{+0.8} _{-0.8}	7.6 ^{+0.7} _{-0.7}	152 ⁺²⁸ ₋₂₈	1206	12.99 ^{+0.15} _{-0.15}	99.41 ^{+0.11} _{-0.11}	1.12E+38	1.21E+35
2537	58729.050980497	563.0 ^{+1.3} _{-1.3}	4.6 ^{+0.6} _{-0.6}	74 ⁺⁴⁹ ₋₄₉	1383	11.43 ^{+0.13} _{-0.13}	52.46 ^{+0.07} _{-0.07}	5.93E+37	8.38E+34
2538	58729.051803125	564.2 ^{+0.1} _{-0.1}	3.4 ^{+0.2} _{-0.2}	419 ⁺⁵² ₋₅₂	1215	152.30 ^{+6.45} _{-6.45}	523.91 ^{+1.10} _{-1.10}	5.61E+38	1.17E+36
2539	58729.051872111	562.9 ^{+1.4} _{-1.4}	2.5 ^{+1.0} _{-1.0}	71 ⁺²⁹ ₋₂₉	1404	6.18 ^{+0.07} _{-0.07}	15.44 ^{+0.07} _{-0.07}	1.74E+37	7.98E+34
2540	58729.051872393	563.2 ^{+1.1} _{-1.1}	3.9 ^{+1.3} _{-1.3}	207 ⁺⁷ ₋₇	1267	6.43 ^{+0.08} _{-0.08}	25.05 ^{+0.10} _{-0.10}	2.83E+37	1.12E+35
2541	58729.052378144	565.3 ^{+1.1} _{-1.1}	2.0 ^{+0.7} _{-0.7}	31 ⁺³⁶ ₋₃₆	1126	7.39 ^{+0.09} _{-0.09}	14.85 ^{+0.06} _{-0.06}	1.68E+37	7.27E+34
2542	58729.052771564	565.3 ^{+1.0} _{-1.0}	3.7 ^{+0.2} _{-0.2}	222 ⁺²⁸ ₋₂₈	1388	158.39 ^{+6.46} _{-6.46}	592.38 ^{+1.61} _{-1.61}	6.34E+38	1.73E+36
2543	58729.052771644	563.7 ^{+0.0} _{-0.0}	2.3 ^{+0.1} _{-0.1}	493 ⁺³ ₋₃	1253	411.49 ^{+8.15} _{-8.15}	934.08 ^{+0.57} _{-0.57}	1.00E+39	6.11E+35
2544	58729.053209783	563.8 ^{+1.2} _{-1.2}	1.9 ^{+0.7} _{-0.7}	65 ⁺¹² ₋₁₂	1445	8.37 ^{+0.10} _{-0.10}	15.93 ^{+0.07} _{-0.07}	1.80E+37	8.21E+34
2545	58729.053209888	563.8 ^{+0.3} _{-0.3}	4.2 ^{+1.0} _{-1.0}	63 ⁺²⁸ ₋₂₈	1414	10.74 ^{+0.13} _{-0.13}	45.39 ^{+0.12} _{-0.12}	5.13E+37	1.37E+35
2546	58729.053210104	563.5 ^{+1.2} _{-1.2}	1.6 ^{+0.3} _{-0.3}	62 ⁺³⁰ ₋₃₀	1376	11.27 ^{+0.13} _{-0.13}	17.81 ^{+0.04} _{-0.04}	2.01E+37	5.00E+34
2547	58729.053792012	565.0 ^{+0.5} _{-0.5}	3.6 ^{+0.5} _{-0.5}	96 ⁺²⁸ ₋₂₈	1437	14.48 ^{+0.17} _{-0.17}	52.44 ^{+0.08} _{-0.08}	5.93E+37	9.31E+34
2548	58729.053802602	563.7 ^{+1.2} _{-1.2}	2.5 ^{+0.5} _{-0.5}	49 ⁺²⁶ ₋₂₆	1336	10.31 ^{+0.12} _{-0.12}	25.58 ^{+0.07} _{-0.07}	2.89E+37	7.38E+34
2549	58729.054439162	563.5 ^{+0.9} _{-0.9}	2.4 ^{+0.7} _{-0.7}	71 ⁺²¹ ₋₂₁	1355	7.41 ^{+0.09} _{-0.09}	17.89 ^{+0.06} _{-0.06}	2.02E+37	7.23E+34
2550	58729.055454505	564.9 ^{+0.9} _{-0.9}	5.8 ^{+1.0} _{-1.0}	187 ⁺⁹⁵ ₋₉₅	1297	11.32 ^{+0.14} _{-0.14}	65.35 ^{+0.14} _{-0.14}	7.38E+37	1.57E+35
2551	58729.055747524	562.8 ^{+1.4} _{-1.4}	5.6 ^{+0.8} _{-0.8}	101 ⁺⁵⁴ ₋₅₄	1353	42.26 ^{+5.08} _{-5.08}	237.92 ^{+4.01} _{-4.01}	2.55E+38	4.30E+36
2552	58729.055877699	563.7 ^{+0.6} _{-0.6}	3.1 ^{+0.6} _{-0.6}	226 ⁺³ ₋₃	1306	11.05 ^{+0.13} _{-0.13}	34.08 ^{+0.07} _{-0.07}	3.85E+37	8.28E+34
2553	58729.056049076	563.7 ^{+1.3} _{-1.3}	4.5 ^{+1.3} _{-1.3}	68 ⁺²¹ ₋₂₁	1409	8.70 ^{+0.10} _{-0.10}	39.18 ^{+0.14} _{-0.14}	4.43E+37	1.53E+35
2554	58729.056090404	562.5 ^{+1.1} _{-1.1}	6.9 ^{+1.3} _{-1.3}	93 ⁺¹¹ ₋₁₁	1305	11.42 ^{+0.14} _{-0.14}	79.09 ^{+0.17} _{-0.17}	8.94E+37	1.96E+35
2555	58729.056236227	560.8 ^{+0.8} _{-0.8}	9.0 ^{+1.9} _{-1.9}	102 ⁺³⁷ ₋₃₇	1153	9.03 ^{+0.11} _{-0.11}	81.38 ^{+0.21} _{-0.21}	9.20E+37	2.36E+35
2556	58729.056657384	563.3 ^{+1.3} _{-1.3}	5.6 ^{+0.8} _{-0.8}	209 ⁺¹⁷⁸ ₋₁₇₈	1164	6.28 ^{+0.07} _{-0.07}	35.23 ^{+0.48} _{-0.48}	3.77E+37	5.16E+35
2557	58729.056680509	563.1 ^{+1.3} _{-1.3}	3.6 ^{+0.6} _{-0.6}	89 ⁺²⁴ ₋₂₄	1202	13.50 ^{+0.16} _{-0.16}	48.43 ^{+0.10} _{-0.10}	5.47E+37	1.10E+35
2558	58729.057274704	564.7 ^{+0.7} _{-0.7}	4.2 ^{+1.1} _{-1.1}	97 ⁺⁴⁷ ₋₄₇	1323	10.80 ^{+0.13} _{-0.13}	45.45 ^{+0.15} _{-0.15}	5.14E+37	1.69E+35
2559	58729.057275286	563.9 ^{+1.0} _{-1.0}	8.7 ^{+1.9} _{-1.9}	45 ⁺⁴ ₋₄	1428	7.59 ^{+0.09} _{-0.09}	66.10 ^{+0.17} _{-0.17}	7.46E+37	1.96E+35
2560	58729.057277416	563.4 ^{+0.8} _{-0.8}	2.0 ^{+0.3} _{-0.3}	135 ⁺⁴⁹ ₋₄₉	1235	16.29 ^{+0.20} _{-0.20}	32.96 ^{+0.06} _{-0.06}	3.72E+37	6.46E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2561	58729.057346227	562.8 ^{+1.2} _{-1.2}	2.8 ^{+0.7} _{-0.7}	204 ⁺¹⁵ ₋₁₅	1201	8.30 ^{+0.10} _{-0.10}	23.13 ^{+0.07} _{-0.07}	2.61E+37	7.92E+34
2562	58729.057395406	565.2 ^{+0.8} _{-0.8}	4.2 ^{+0.6} _{-0.6}	153 ⁺⁵⁴ ₋₅₄	1348	14.38 ^{+0.18} _{-0.18}	60.01 ^{+0.10} _{-0.10}	6.78E+37	1.12E+35
2563	58729.057395532	565.2 ^{+1.0} _{-1.0}	3.8 ^{+0.6} _{-0.6}	72 ⁺¹⁶ ₋₁₆	1390	14.12 ^{+0.17} _{-0.17}	53.90 ^{+0.10} _{-0.10}	6.09E+37	1.18E+35
2564	58729.057453610	563.9 ^{+1.3} _{-1.3}	5.1 ^{+2.0} _{-2.0}	179 ⁺³ ₋₃	1246	6.47 ^{+0.08} _{-0.08}	32.81 ^{+0.16} _{-0.16}	3.71E+37	1.80E+35
2565	58729.057614131	563.1 ^{+0.4} _{-0.4}	2.2 ^{+0.2} _{-0.2}	240 ⁺¹¹ ₋₁₁	1247	32.93 ^{+0.40} _{-0.40}	73.90 ^{+0.06} _{-0.06}	8.35E+37	6.83E+34
2566	58729.058182125	561.9 ^{+1.2} _{-1.2}	3.9 ^{+0.7} _{-0.7}	101 ⁺³⁹ ₋₃₉	1417	11.05 ^{+0.14} _{-0.14}	42.55 ^{+0.09} _{-0.09}	4.81E+37	1.04E+35
2567	58729.058501962	562.5 ^{+1.2} _{-1.2}	5.4 ^{+1.8} _{-1.8}	51 ⁺⁹ ₋₉	1434	6.03 ^{+0.07} _{-0.07}	32.47 ^{+0.13} _{-0.13}	3.67E+37	1.51E+35
2568	58729.058594481	564.8 ^{+0.6} _{-0.6}	3.6 ^{+0.7} _{-0.7}	69 ⁺³⁴ ₋₃₄	1168	11.06 ^{+0.14} _{-0.14}	39.95 ^{+0.09} _{-0.09}	4.51E+37	1.02E+35
2569	58729.058890427	563.6 ^{+1.3} _{-1.3}	2.6 ^{+0.4} _{-0.4}	68 ⁺³⁰ ₋₃₀	1431	13.69 ^{+0.17} _{-0.17}	35.72 ^{+0.07} _{-0.07}	4.04E+37	8.37E+34
2570	58729.059188957	563.8 ^{+0.9} _{-0.9}	1.9 ^{+0.4} _{-0.4}	60 ⁺⁴⁴ ₋₄₄	1144	9.60 ^{+0.12} _{-0.12}	17.96 ^{+0.05} _{-0.05}	2.03E+37	5.87E+34
2571	58729.059949331	563.0 ^{+1.2} _{-1.2}	3.7 ^{+1.2} _{-1.2}	277 ⁺³ ₋₃	1288	7.18 ^{+0.09} _{-0.09}	26.79 ^{+0.11} _{-0.11}	3.03E+37	1.24E+35
2572	58729.060048173	563.5 ^{+0.8} _{-0.8}	2.3 ^{+0.5} _{-0.5}	111 ⁺⁴² ₋₄₂	1184	10.02 ^{+0.12} _{-0.12}	22.83 ^{+0.06} _{-0.06}	2.58E+37	6.74E+34
2573	58729.060935579	564.4 ^{+0.5} _{-0.5}	7.1 ^{+2.4} _{-2.4}	66 ⁺⁶ ₋₆	1409	5.65 ^{+0.07} _{-0.07}	40.18 ^{+0.17} _{-0.17}	4.54E+37	1.91E+35
2574	58729.061198950	564.2 ^{+0.9} _{-0.9}	4.1 ^{+0.8} _{-0.8}	94 ⁺²² ₋₂₂	1433	9.24 ^{+0.12} _{-0.12}	37.70 ^{+0.09} _{-0.09}	4.26E+37	1.04E+35
2575	58729.061379565	563.1 ^{+1.1} _{-1.1}	4.5 ^{+1.3} _{-1.3}	53 ⁺³ ₋₃	1417	6.68 ^{+0.08} _{-0.08}	30.21 ^{+0.11} _{-0.11}	3.41E+37	1.24E+35
2576	58729.062870328	563.6 ^{+1.1} _{-1.1}	3.2 ^{+0.7} _{-0.7}	68 ⁺⁸ ₋₈	1132	7.84 ^{+0.10} _{-0.10}	25.32 ^{+0.07} _{-0.07}	2.86E+37	8.26E+34
2577	58729.063049392	562.9 ^{+1.3} _{-1.3}	5.8 ^{+1.2} _{-1.2}	267 ⁺¹²⁰ ₋₁₂₀	1197	7.78 ^{+0.10} _{-0.10}	45.36 ^{+0.12} _{-0.12}	5.13E+37	1.32E+35
2578	58729.063546902	563.6 ^{+0.4} _{-0.4}	4.5 ^{+1.1} _{-1.1}	62 ⁺⁶ ₋₆	1412	7.13 ^{+0.09} _{-0.09}	31.82 ^{+0.10} _{-0.10}	3.60E+37	1.10E+35
2579	58729.063628816	563.9 ^{+0.0} _{-0.0}	3.2 ^{+0.0} _{-0.0}	495 ⁺⁵ ₋₅	1250	1015.45 ^{+7.12} _{-7.12}	3229.13 ^{+0.21} _{-0.21}	3.46E+39	2.29E+35
2580	58729.063976042	563.1 ^{+1.1} _{-1.1}	4.1 ^{+0.8} _{-0.8}	81 ⁺³⁷ ₋₃₇	1383	7.54 ^{+0.10} _{-0.10}	30.85 ^{+0.08} _{-0.08}	3.49E+37	9.06E+34
2581	58729.064184269	563.9 ^{+1.1} _{-1.1}	8.4 ^{+0.6} _{-0.6}	192 ⁺³³ ₋₃₃	1361	67.67 ^{+4.42} _{-4.42}	569.10 ^{+2.83} _{-2.83}	6.09E+38	3.03E+36
2582	58729.064435573	565.1 ^{+0.6} _{-0.6}	4.2 ^{+1.1} _{-1.1}	53 ⁺¹² ₋₁₂	1350	8.74 ^{+0.11} _{-0.11}	36.32 ^{+0.12} _{-0.12}	4.10E+37	1.39E+35
2583	58729.064843555	563.7 ^{+1.2} _{-1.2}	7.4 ^{+1.2} _{-1.2}	97 ⁺²¹ ₋₂₁	1392	8.55 ^{+0.11} _{-0.11}	63.53 ^{+0.14} _{-0.14}	7.18E+37	1.54E+35
2584	58729.064844618	561.5 ^{+0.6} _{-0.6}	2.8 ^{+1.0} _{-1.0}	54 ⁺¹⁹ ₋₁₉	1390	5.70 ^{+0.07} _{-0.07}	15.99 ^{+0.08} _{-0.08}	1.81E+37	8.50E+34
2585	58729.064844782	564.2 ^{+0.8} _{-0.8}	8.3 ^{+1.6} _{-1.6}	93 ⁺⁴¹ ₋₄₁	1215	10.46 ^{+0.14} _{-0.14}	86.69 ^{+0.21} _{-0.21}	9.80E+37	2.42E+35
2586	58729.065041697	563.5 ^{+0.7} _{-0.7}	2.0 ^{+0.6} _{-0.6}	126 ⁺⁷¹ ₋₇₁	1211	8.33 ^{+0.11} _{-0.11}	16.91 ^{+0.06} _{-0.06}	1.91E+37	6.99E+34
2587	58729.065932778	563.4 ^{+0.8} _{-0.8}	7.1 ^{+1.0} _{-1.0}	213 ⁺⁴¹ ₋₄₁	1250	13.60 ^{+0.17} _{-0.17}	96.96 ^{+1.42} _{-1.42}	1.04E+38	1.52E+36
2588	58729.065932818	564.6 ^{+1.0} _{-1.0}	6.2 ^{+1.1} _{-1.1}	151 ⁺⁵ ₋₅	1232	33.54 ^{+5.04} _{-5.04}	206.94 ^{+5.44} _{-5.44}	2.22E+38	5.83E+36
2589	58729.066038449	563.2 ^{+0.5} _{-0.5}	1.5 ^{+0.2} _{-0.2}	51 ⁺²⁸ ₋₂₈	1395	14.79 ^{+0.19} _{-0.19}	21.49 ^{+0.04} _{-0.04}	2.43E+37	4.51E+34
2590	58729.066791647	563.0 ^{+0.5} _{-0.5}	4.7 ^{+0.9} _{-0.9}	78 ⁺³⁰ ₋₃₀	1391	9.67 ^{+0.09} _{-0.09}	45.35 ^{+0.08} _{-0.08}	5.12E+37	9.53E+34
2591	58729.067605283	563.2 ^{+1.0} _{-1.0}	2.8 ^{+0.7} _{-0.7}	51 ⁺¹⁴ ₋₁₄	1393	9.13 ^{+0.09} _{-0.09}	25.70 ^{+0.06} _{-0.06}	2.90E+37	7.09E+34
2592	58729.067685961	563.0 ^{+1.2} _{-1.2}	2.7 ^{+1.0} _{-1.0}	114 ⁺³¹ ₋₃₁	1412	9.82 ^{+0.10} _{-0.10}	26.47 ^{+0.09} _{-0.09}	2.99E+37	1.06E+35
2593	58729.068366911	562.6 ^{+1.3} _{-1.3}	2.4 ^{+1.5} _{-1.5}	26 ⁺⁴ ₋₄	1067	5.67 ^{+0.06} _{-0.06}	13.72 ^{+0.08} _{-0.08}	1.55E+37	9.31E+34
2594	58729.069410394	560.9 ^{+0.8} _{-0.8}	3.1 ^{+0.8} _{-0.8}	114 ⁺¹⁴ ₋₁₄	1428	14.75 ^{+0.15} _{-0.15}	45.88 ^{+0.11} _{-0.11}	5.18E+37	1.28E+35
2595	58729.069503984	563.1 ^{+1.1} _{-1.1}	6.8 ^{+2.0} _{-2.0}	114 ⁺⁹⁵ ₋₉₅	1377	13.17 ^{+0.13} _{-0.13}	89.28 ^{+0.26} _{-0.26}	1.01E+38	2.94E+35
2596	58729.069609902	563.1 ^{+1.3} _{-1.3}	5.6 ^{+0.8} _{-0.8}	40 ⁺¹⁶ ₋₁₆	1143	5.20 ^{+0.05} _{-0.05}	29.32 ^{+0.34} _{-0.34}	3.14E+37	3.59E+35
2597	58729.069726882	562.6 ^{+0.8} _{-0.8}	4.1 ^{+0.2} _{-0.2}	45 ⁺¹⁵ ₋₁₅	1143	183.88 ^{+6.62} _{-6.62}	757.59 ^{+1.13} _{-1.13}	8.11E+38	1.20E+36
2598	58729.071966212	562.7 ^{+1.1} _{-1.1}	2.0 ^{+0.3} _{-0.3}	181 ⁺³⁵ ₋₃₅	1242	12.50 ^{+0.13} _{-0.13}	24.96 ^{+0.04} _{-0.04}	2.82E+37	4.88E+34
2599	58729.072694544	564.3 ^{+0.3} _{-0.3}	4.3 ^{+2.0} _{-2.0}	72 ⁺²⁴ ₋₂₄	1387	8.31 ^{+0.09} _{-0.09}	35.76 ^{+0.17} _{-0.17}	4.04E+37	1.94E+35
2600	58729.072836387	563.2 ^{+0.2} _{-0.2}	2.9 ^{+0.2} _{-0.2}	441 ⁺⁷ ₋₇	1273	116.19 ^{+7.73} _{-7.73}	334.63 ^{+1.70} _{-1.70}	3.58E+38	1.82E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2601	58729.072842111	563.3 ^{+1.3} _{-1.3}	5.5 ^{+1.0} _{-1.0}	125 ⁺¹⁰ ₋₁₀	1125	15.63 ^{+0.17} _{-0.17}	86.24 ^{+0.16} _{-0.16}	9.75E+37	1.83E+35
2602	58729.073056489	562.9 ^{+1.1} _{-1.1}	3.9 ^{+1.2} _{-1.2}	75 ⁺³ ₋₃	1104	9.30 ^{+0.10} _{-0.10}	35.88 ^{+0.12} _{-0.12}	4.05E+37	1.35E+35
2603	58729.073117666	564.8 ^{+0.6} _{-0.6}	5.4 ^{+1.4} _{-1.4}	123 ⁺⁷⁶ ₋₇₆	1201	14.98 ^{+0.16} _{-0.16}	80.90 ^{+0.22} _{-0.22}	9.14E+37	2.51E+35
2604	58729.073637258	562.9 ^{+1.2} _{-1.2}	2.1 ^{+0.0} _{-0.0}	488 ⁺⁷ ₋₇	1254	583.18 ^{+9.34} _{-9.34}	1224.68 ^{+0.37} _{-0.37}	1.31E+39	4.00E+35
2605	58729.073962421	565.1 ^{+0.6} _{-0.6}	3.0 ^{+0.8} _{-0.8}	81 ⁺⁵² ₋₅₂	1403	9.17 ^{+0.10} _{-0.10}	27.21 ^{+0.08} _{-0.08}	3.07E+37	8.84E+34
2606	58729.074063487	563.6 ^{+1.2} _{-1.2}	3.6 ^{+0.6} _{-0.6}	128 ⁺⁷⁶ ₋₇₆	1244	13.83 ^{+0.15} _{-0.15}	50.49 ^{+0.09} _{-0.09}	5.71E+37	9.83E+34
2607	58729.075890546	563.3 ^{+1.3} _{-1.3}	6.0 ^{+3.1} _{-3.1}	85 ⁺⁴ ₋₄	1389	5.94 ^{+0.07} _{-0.07}	35.53 ^{+0.20} _{-0.20}	4.01E+37	2.30E+35
2608	58729.075890795	564.6 ^{+0.9} _{-0.9}	3.8 ^{+1.2} _{-1.2}	142 ⁺²² ₋₂₂	1354	11.24 ^{+0.12} _{-0.12}	42.60 ^{+0.15} _{-0.15}	4.81E+37	1.67E+35
2609	58729.076458531	564.9 ^{+0.7} _{-0.7}	7.5 ^{+2.1} _{-2.1}	113 ⁺³ ₋₃	1375	5.32 ^{+0.06} _{-0.06}	39.87 ^{+0.12} _{-0.12}	4.50E+37	1.40E+35
2610	58729.076646388	564.8 ^{+0.3} _{-0.3}	7.6 ^{+2.6} _{-2.6}	83 ⁺³ ₋₃	1361	9.54 ^{+0.11} _{-0.11}	72.98 ^{+0.28} _{-0.28}	8.25E+37	3.22E+35
2611	58729.076646589	564.9 ^{+0.7} _{-0.7}	3.1 ^{+0.3} _{-0.3}	113 ⁺³ ₋₃	1375	83.60 ^{+7.64} _{-7.64}	260.00 ^{+2.52} _{-2.52}	2.78E+38	2.70E+36
2612	58729.076684484	564.3 ^{+1.0} _{-1.0}	3.4 ^{+1.1} _{-1.1}	75 ⁺¹¹ ₋₁₁	1408	9.99 ^{+0.11} _{-0.11}	34.22 ^{+0.13} _{-0.13}	3.87E+37	1.42E+35
2613	58729.076753411	563.4 ^{+1.2} _{-1.2}	4.0 ^{+0.9} _{-0.9}	121 ⁺²⁷ ₋₂₇	1377	13.96 ^{+0.16} _{-0.16}	56.02 ^{+0.15} _{-0.15}	6.33E+37	1.64E+35
2614	58729.077407212	561.3 ^{+0.8} _{-0.8}	5.9 ^{+1.4} _{-1.4}	144 ⁺⁷⁴ ₋₇₄	1307	12.85 ^{+0.15} _{-0.15}	75.47 ^{+0.20} _{-0.20}	8.53E+37	2.28E+35
2615	58729.077417584	563.9 ^{+1.1} _{-1.1}	3.7 ^{+0.6} _{-0.6}	101 ⁺⁴⁰ ₋₄₀	1310	15.76 ^{+0.18} _{-0.18}	58.95 ^{+0.11} _{-0.11}	6.66E+37	1.28E+35
2616	58729.078364985	563.1 ^{+0.1} _{-0.1}	3.9 ^{+0.1} _{-0.1}	482 ⁺⁶ ₋₆	1258	204.28 ^{+2.37} _{-2.37}	795.25 ^{+0.27} _{-0.27}	8.99E+38	3.07E+35
2617	58729.078916956	563.7 ^{+0.4} _{-0.4}	3.1 ^{+0.4} _{-0.4}	135 ⁺³⁶ ₋₃₆	1392	12.74 ^{+0.15} _{-0.15}	39.22 ^{+0.52} _{-0.52}	4.20E+37	5.58E+35
2618	58729.078930139	562.9 ^{+1.3} _{-1.3}	5.3 ^{+0.9} _{-0.9}	117 ⁺⁵¹ ₋₅₁	1357	18.50 ^{+0.22} _{-0.22}	97.81 ^{+0.19} _{-0.19}	1.11E+38	2.20E+35
2619	58729.079264693	565.1 ^{+0.3} _{-0.3}	3.5 ^{+0.4} _{-0.4}	442 ⁺⁵⁶ ₋₅₆	1259	33.24 ^{+0.39} _{-0.39}	117.26 ^{+0.17} _{-0.17}	1.33E+38	1.90E+35
2620	58729.079585505	562.7 ^{+0.4} _{-0.4}	1.8 ^{+1.0} _{-1.0}	56 ⁺¹⁰ ₋₁₀	1390	6.67 ^{+0.08} _{-0.08}	11.79 ^{+0.08} _{-0.08}	1.33E+37	9.27E+34
2621	58729.080634642	563.7 ^{+1.2} _{-1.2}	5.0 ^{+2.5} _{-2.5}	109 ⁺⁵⁵ ₋₅₅	1367	8.07 ^{+0.10} _{-0.10}	40.05 ^{+0.24} _{-0.24}	4.53E+37	2.69E+35
2622	58729.081436294	563.3 ^{+1.4} _{-1.4}	4.3 ^{+0.6} _{-0.6}	121 ⁺³⁰ ₋₃₀	1180	12.44 ^{+0.15} _{-0.15}	53.62 ^{+0.74} _{-0.74}	5.74E+37	7.97E+35
2623	58729.082554677	563.8 ^{+1.1} _{-1.1}	6.3 ^{+0.5} _{-0.5}	61 ⁺⁴² ₋₄₂	1130	19.12 ^{+0.24} _{-0.24}	120.06 ^{+0.13} _{-0.13}	1.36E+38	1.44E+35
2624	58730.869067903	564.0 ^{+0.6} _{-0.6}	4.8 ^{+0.8} _{-0.8}	95 ⁺¹⁸ ₋₁₈	1068	18.05 ^{+0.28} _{-0.28}	87.29 ^{+0.22} _{-0.22}	9.86E+37	2.54E+35
2625	58730.869603888	562.9 ^{+1.1} _{-1.1}	2.3 ^{+0.6} _{-0.6}	57 ⁺⁴ ₋₄	1417	6.92 ^{+0.11} _{-0.11}	16.24 ^{+0.06} _{-0.06}	1.84E+37	7.29E+34
2626	58730.869779069	563.0 ^{+0.5} _{-0.5}	2.8 ^{+0.5} _{-0.5}	78 ⁺³⁴ ₋₃₄	1173	13.88 ^{+0.21} _{-0.21}	38.60 ^{+0.10} _{-0.10}	4.36E+37	1.16E+35
2627	58730.869782428	563.7 ^{+1.1} _{-1.1}	2.8 ^{+0.6} _{-0.6}	78 ⁺²⁰ ₋₂₀	1068	18.01 ^{+0.27} _{-0.27}	50.53 ^{+0.16} _{-0.16}	5.71E+37	1.76E+35
2628	58730.869782993	563.0 ^{+1.2} _{-1.2}	5.7 ^{+1.4} _{-1.4}	77 ⁺²³ ₋₂₃	1173	13.74 ^{+0.21} _{-0.21}	77.81 ^{+0.29} _{-0.29}	8.79E+37	3.29E+35
2629	58730.870139009	563.1 ^{+1.0} _{-1.0}	5.0 ^{+2.4} _{-2.4}	71 ⁺¹⁴ ₋₁₄	1381	5.93 ^{+0.09} _{-0.09}	29.48 ^{+0.21} _{-0.21}	3.33E+37	2.39E+35
2630	58730.870547834	562.5 ^{+1.2} _{-1.2}	9.9 ^{+4.5} _{-4.5}	89 ⁺³ ₋₃	1370	6.86 ^{+0.10} _{-0.10}	68.05 ^{+0.46} _{-0.46}	7.69E+37	5.15E+35
2631	58730.870960198	563.0 ^{+1.3} _{-1.3}	1.7 ^{+0.5} _{-0.5}	134 ⁺⁴ ₋₄	1369	10.74 ^{+0.16} _{-0.16}	18.72 ^{+0.08} _{-0.08}	2.12E+37	9.15E+34
2632	58730.870990375	562.8 ^{+1.3} _{-1.3}	8.1 ^{+3.5} _{-3.5}	79 ⁺⁵⁰ ₋₅₀	1386	7.92 ^{+0.12} _{-0.12}	64.23 ^{+0.41} _{-0.41}	7.26E+37	4.63E+35
2633	58730.871112087	563.1 ^{+1.4} _{-1.4}	3.4 ^{+0.7} _{-0.7}	70 ⁺⁹⁴ ₋₉₄	1376	11.10 ^{+0.16} _{-0.16}	37.53 ^{+0.11} _{-0.11}	4.24E+37	1.27E+35
2634	58730.871229048	563.0 ^{+1.1} _{-1.1}	5.9 ^{+1.3} _{-1.3}	63 ⁺¹⁶ ₋₁₆	1376	13.93 ^{+0.21} _{-0.21}	81.84 ^{+0.26} _{-0.26}	9.25E+37	2.97E+35
2635	58730.871229871	563.2 ^{+1.1} _{-1.1}	5.5 ^{+2.3} _{-2.3}	97 ⁺⁵ ₋₅	1238	7.79 ^{+0.12} _{-0.12}	42.71 ^{+0.27} _{-0.27}	4.83E+37	3.08E+35
2636	58730.871510731	562.8 ^{+1.2} _{-1.2}	6.2 ^{+1.3} _{-1.3}	291 ⁺⁸⁴ ₋₈₄	1266	9.49 ^{+0.14} _{-0.14}	58.67 ^{+0.18} _{-0.18}	6.63E+37	2.07E+35
2637	58730.871724165	562.6 ^{+1.1} _{-1.1}	8.0 ^{+1.2} _{-1.2}	77 ⁺⁶ ₋₆	1203	9.09 ^{+0.13} _{-0.13}	72.53 ^{+1.21} _{-1.21}	7.76E+37	1.30E+36
2638	58730.871951794	563.3 ^{+1.2} _{-1.2}	3.8 ^{+1.6} _{-1.6}	96 ⁺⁴ ₋₄	1378	6.57 ^{+0.10} _{-0.10}	25.24 ^{+0.16} _{-0.16}	2.85E+37	1.78E+35
2639	58730.872166266	563.1 ^{+1.3} _{-1.3}	5.2 ^{+1.2} _{-1.2}	100 ⁺³⁷ ₋₃₇	1335	10.69 ^{+0.16} _{-0.16}	55.62 ^{+0.18} _{-0.18}	6.29E+37	2.06E+35
2640	58730.872590039	563.0 ^{+0.6} _{-0.6}	3.7 ^{+0.6} _{-0.6}	84 ⁺³⁹ ₋₃₉	1413	14.56 ^{+0.21} _{-0.21}	54.46 ^{+0.13} _{-0.13}	6.15E+37	1.50E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2641	58730.873406363	564.4 ^{+0.7} _{-0.7}	3.5 ^{+1.0} _{-1.0}	81 ⁺⁴⁵ ₋₄₅	1375	11.20 ^{+0.16} _{-0.16}	39.42 ^{+0.16} _{-0.16}	4.45E+37	1.76E+35
2642	58730.873407064	564.0 ^{+1.3} _{-1.3}	2.1 ^{+0.4} _{-0.4}	93 ⁺⁴² ₋₄₂	1406	17.54 ^{+0.25} _{-0.25}	37.42 ^{+0.09} _{-0.09}	4.23E+37	1.06E+35
2643	58730.873577859	562.7 ^{+1.4} _{-1.4}	7.3 ^{+2.8} _{-2.8}	69 ⁺²⁷ ₋₂₇	1382	6.47 ^{+0.09} _{-0.09}	46.94 ^{+0.26} _{-0.26}	5.30E+37	2.95E+35
2644	58730.873666334	563.3 ^{+1.1} _{-1.1}	5.5 ^{+1.7} _{-1.7}	46 ⁺¹⁴ ₋₁₄	1431	8.84 ^{+0.13} _{-0.13}	48.29 ^{+0.22} _{-0.22}	5.46E+37	2.48E+35
2645	58730.873734607	563.4 ^{+1.2} _{-1.2}	2.3 ^{+0.4} _{-0.4}	109 ⁺³⁹ ₋₃₉	1220	19.28 ^{+0.28} _{-0.28}	43.59 ^{+0.12} _{-0.12}	4.93E+37	1.30E+35
2646	58730.873873811	562.8 ^{+1.3} _{-1.3}	6.9 ^{+0.8} _{-0.8}	189 ⁺³⁵ ₋₃₅	1386	57.11 ^{+5.66} _{-5.66}	392.92 ^{+4.58} _{-4.58}	4.21E+38	4.91E+36
2647	58730.874714965	563.0 ^{+1.2} _{-1.2}	3.6 ^{+1.0} _{-1.0}	130 ⁺⁵⁸ ₋₅₈	1236	9.46 ^{+0.13} _{-0.13}	33.94 ^{+0.13} _{-0.13}	3.84E+37	1.46E+35
2648	58730.875311642	563.1 ^{+1.2} _{-1.2}	10.7 ^{+3.7} _{-3.7}	71 ⁺⁵ ₋₅	1421	7.35 ^{+0.10} _{-0.10}	78.94 ^{+0.38} _{-0.38}	8.92E+37	4.27E+35
2649	58730.875396189	563.4 ^{+1.3} _{-1.3}	2.1 ^{+0.4} _{-0.4}	65 ⁺¹⁶ ₋₁₆	1393	13.07 ^{+0.18} _{-0.18}	27.66 ^{+0.08} _{-0.08}	3.13E+37	8.58E+34
2650	58730.876323644	563.4 ^{+1.2} _{-1.2}	2.5 ^{+0.6} _{-0.6}	115 ⁺⁴ ₋₄	1383	10.87 ^{+0.15} _{-0.15}	27.54 ^{+0.09} _{-0.09}	3.11E+37	1.06E+35
2651	58730.876417860	562.4 ^{+1.0} _{-1.0}	5.2 ^{+2.5} _{-2.5}	195 ⁺⁶⁶ ₋₆₆	1289	5.44 ^{+0.07} _{-0.07}	28.52 ^{+0.18} _{-0.18}	3.22E+37	2.06E+35
2652	58730.876418157	562.9 ^{+1.2} _{-1.2}	2.0 ^{+0.3} _{-0.3}	93 ⁺²⁹ ₋₂₉	1313	10.26 ^{+0.14} _{-0.14}	20.48 ^{+0.05} _{-0.05}	2.31E+37	5.32E+34
2653	58730.876547458	563.2 ^{+1.3} _{-1.3}	5.7 ^{+1.9} _{-1.9}	110 ⁺⁴⁶ ₋₄₆	1316	9.18 ^{+0.12} _{-0.12}	52.21 ^{+0.24} _{-0.24}	5.90E+37	2.72E+35
2654	58730.876879066	564.3 ^{+1.0} _{-1.0}	5.1 ^{+1.4} _{-1.4}	169 ⁺⁴ ₋₄	1242	11.59 ^{+0.16} _{-0.16}	59.47 ^{+0.21} _{-0.21}	6.72E+37	2.41E+35
2655	58730.876879390	564.3 ^{+1.0} _{-1.0}	2.5 ^{+0.6} _{-0.6}	110 ⁺⁴ ₋₄	1303	8.73 ^{+0.12} _{-0.12}	21.95 ^{+0.07} _{-0.07}	2.48E+37	8.38E+34
2656	58730.877085656	562.4 ^{+1.1} _{-1.1}	5.7 ^{+1.4} _{-1.4}	134 ⁺³⁴ ₋₃₄	1344	10.74 ^{+0.14} _{-0.14}	60.89 ^{+0.20} _{-0.20}	6.88E+37	2.28E+35
2657	58730.877360080	564.0 ^{+0.9} _{-0.9}	3.9 ^{+0.9} _{-0.9}	104 ⁺³³ ₋₃₃	1325	12.36 ^{+0.17} _{-0.17}	47.90 ^{+0.15} _{-0.15}	5.41E+37	1.67E+35
2658	58730.877387038	563.3 ^{+1.2} _{-1.2}	2.3 ^{+0.7} _{-0.7}	201 ⁺⁵¹ ₋₅₁	1331	10.33 ^{+0.14} _{-0.14}	24.23 ^{+0.09} _{-0.09}	2.74E+37	1.03E+35
2659	58730.877563004	563.3 ^{+1.3} _{-1.3}	2.7 ^{+0.4} _{-0.4}	81 ⁺³⁸ ₋₃₈	1407	15.39 ^{+0.21} _{-0.21}	41.99 ^{+0.09} _{-0.09}	4.74E+37	1.04E+35
2660	58730.877563764	562.9 ^{+1.1} _{-1.1}	8.1 ^{+1.4} _{-1.4}	182 ⁺³⁰ ₋₃₀	1392	14.98 ^{+0.20} _{-0.20}	121.46 ^{+0.28} _{-0.28}	1.37E+38	3.18E+35
2661	58730.877683740	563.5 ^{+1.3} _{-1.3}	8.4 ^{+2.1} _{-2.1}	71 ⁺⁴ ₋₄	1416	9.23 ^{+0.12} _{-0.12}	77.51 ^{+0.25} _{-0.25}	8.75E+37	2.86E+35
2662	58730.877965885	564.4 ^{+1.1} _{-1.1}	3.9 ^{+1.3} _{-1.3}	67 ⁺²⁰ ₋₂₀	1330	7.91 ^{+0.10} _{-0.10}	30.58 ^{+0.13} _{-0.13}	3.46E+37	1.48E+35
2663	58730.878078217	563.8 ^{+1.3} _{-1.3}	4.9 ^{+1.7} _{-1.7}	328 ⁺⁴ ₋₄	1274	6.67 ^{+0.09} _{-0.09}	32.57 ^{+0.15} _{-0.15}	3.68E+37	1.67E+35
2664	58730.878078700	563.5 ^{+1.0} _{-1.0}	3.3 ^{+1.4} _{-1.4}	90 ⁺¹⁸ ₋₁₈	1089	6.31 ^{+0.08} _{-0.08}	20.59 ^{+0.12} _{-0.12}	2.33E+37	1.37E+35
2665	58730.878248729	562.4 ^{+1.0} _{-1.0}	3.4 ^{+1.1} _{-1.1}	54 ⁺⁸ ₋₈	1132	7.91 ^{+0.10} _{-0.10}	26.89 ^{+0.12} _{-0.12}	3.04E+37	1.35E+35
2666	58730.878767160	561.7 ^{+1.3} _{-1.3}	2.4 ^{+0.7} _{-0.7}	64 ⁺²⁸ ₋₂₈	1147	7.00 ^{+0.09} _{-0.09}	16.44 ^{+0.06} _{-0.06}	1.86E+37	7.25E+34
2667	58730.878848679	562.9 ^{+1.1} _{-1.1}	3.2 ^{+0.5} _{-0.5}	66 ⁺⁴⁷ ₋₄₇	1381	10.18 ^{+0.13} _{-0.13}	32.48 ^{+0.49} _{-0.49}	3.48E+37	5.24E+35
2668	58730.878923773	561.9 ^{+0.4} _{-0.4}	1.6 ^{+0.2} _{-0.2}	246 ⁺⁷³ ₋₇₃	1311	29.50 ^{+0.39} _{-0.39}	46.91 ^{+0.07} _{-0.07}	5.30E+37	7.91E+34
2669	58730.878923855	562.3 ^{+0.3} _{-0.3}	3.4 ^{+0.5} _{-0.5}	101 ⁺⁸⁹ ₋₈₉	1278	15.82 ^{+0.21} _{-0.21}	53.14 ^{+0.11} _{-0.11}	6.00E+37	1.28E+35
2670	58730.878957505	563.3 ^{+1.1} _{-1.1}	5.1 ^{+0.9} _{-0.9}	112 ⁺¹² ₋₁₂	1226	8.64 ^{+0.11} _{-0.11}	44.22 ^{+0.11} _{-0.11}	5.00E+37	1.19E+35
2671	58730.879236964	563.4 ^{+1.2} _{-1.2}	4.4 ^{+0.8} _{-0.8}	66 ⁺⁴ ₋₄	1286	14.34 ^{+0.19} _{-0.19}	62.90 ^{+0.15} _{-0.15}	7.11E+37	1.65E+35
2672	58730.879318430	564.1 ^{+0.7} _{-0.7}	3.7 ^{+0.5} _{-0.5}	80 ⁺⁵⁸ ₋₅₈	1384	11.46 ^{+0.15} _{-0.15}	42.47 ^{+0.08} _{-0.08}	4.80E+37	8.77E+34
2673	58730.879451546	563.4 ^{+1.0} _{-1.0}	3.2 ^{+0.4} _{-0.4}	110 ⁺⁵⁰ ₋₅₀	1339	16.74 ^{+0.22} _{-0.22}	53.65 ^{+0.09} _{-0.09}	6.06E+37	1.04E+35
2674	58730.879451882	562.2 ^{+1.4} _{-1.4}	7.8 ^{+2.9} _{-2.9}	54 ⁺⁶ ₋₆	1377	7.88 ^{+0.10} _{-0.10}	61.70 ^{+0.30} _{-0.30}	6.97E+37	3.36E+35
2675	58730.879867634	564.6 ^{+1.1} _{-1.1}	14.0 ^{+3.5} _{-3.5}	33 ⁺⁷ ₋₇	1114	10.70 ^{+0.14} _{-0.14}	149.81 ^{+0.49} _{-0.49}	1.69E+38	5.53E+35
2676	58730.880053385	563.8 ^{+1.0} _{-1.0}	3.1 ^{+0.5} _{-0.5}	223 ⁺¹⁷ ₋₁₇	1357	17.96 ^{+0.23} _{-0.23}	55.87 ^{+0.12} _{-0.12}	6.31E+37	1.31E+35
2677	58730.880058405	562.7 ^{+1.2} _{-1.2}	7.1 ^{+2.8} _{-2.8}	107 ⁺¹⁸ ₋₁₈	1418	8.19 ^{+0.11} _{-0.11}	58.32 ^{+0.30} _{-0.30}	6.59E+37	3.41E+35
2678	58730.880358831	562.8 ^{+0.7} _{-0.7}	6.2 ^{+0.9} _{-0.9}	227 ⁺⁵⁷ ₋₅₇	1362	16.78 ^{+0.21} _{-0.21}	104.84 ^{+0.19} _{-0.19}	1.18E+38	2.10E+35
2679	58730.880497960	562.6 ^{+1.3} _{-1.3}	2.1 ^{+1.2} _{-1.2}	75 ⁺⁴¹ ₋₄₁	1372	3.63 ^{+0.05} _{-0.05}	7.66 ^{+0.05} _{-0.05}	8.66E+36	6.00E+34
2680	58730.880651568	563.0 ^{+1.1} _{-1.1}	8.4 ^{+1.3} _{-1.3}	78 ⁺⁴⁹ ₋₄₉	1382	38.70 ^{+4.93} _{-4.93}	326.24 ^{+6.31} _{-6.31}	3.49E+38	6.76E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2681	58730.880848565	562.9 ^{+1.4} _{-1.4}	3.6 ^{+1.1} _{-1.1}	111 ⁺⁵ ₋₅	1087	8.72 ^{+0.11} _{-0.11}	31.49 ^{+0.12} _{-0.12}	3.56E+37	1.40E+35
2682	58730.880848702	562.6 ^{+1.2} _{-1.2}	4.5 ^{+2.0} _{-2.0}	70 ⁺⁶ ₋₆	1422	5.92 ^{+0.07} _{-0.07}	26.71 ^{+0.15} _{-0.15}	3.02E+37	1.72E+35
2683	58730.880848863	562.9 ^{+1.3} _{-1.3}	4.6 ^{+0.8} _{-0.8}	84 ⁺¹⁷ ₋₁₇	1363	12.49 ^{+0.16} _{-0.16}	58.08 ^{+0.12} _{-0.12}	6.56E+37	1.41E+35
2684	58730.880979598	561.2 ^{+0.9} _{-0.9}	3.9 ^{+0.4} _{-0.4}	112 ⁺³² ₋₃₂	1345	19.75 ^{+0.25} _{-0.25}	77.54 ^{+0.10} _{-0.10}	8.76E+37	1.17E+35
2685	58730.881168348	564.5 ^{+0.9} _{-0.9}	4.7 ^{+0.5} _{-0.5}	81 ⁺⁴⁹ ₋₄₉	1345	17.50 ^{+0.22} _{-0.22}	82.83 ^{+0.12} _{-0.12}	9.36E+37	1.31E+35
2686	58730.881194583	561.3 ^{+0.9} _{-0.9}	5.1 ^{+1.2} _{-1.2}	98 ⁺⁴⁶ ₋₄₆	1354	10.38 ^{+0.13} _{-0.13}	53.31 ^{+0.16} _{-0.16}	6.02E+37	1.78E+35
2687	58730.881369157	563.4 ^{+1.0} _{-1.0}	1.8 ^{+0.3} _{-0.3}	90 ⁺⁴ ₋₄	1393	7.23 ^{+0.09} _{-0.09}	12.92 ^{+0.19} _{-0.19}	1.38E+37	1.99E+35
2688	58730.882194052	564.2 ^{+1.1} _{-1.1}	6.1 ^{+2.2} _{-2.2}	117 ⁺²⁵ ₋₂₅	1130	9.92 ^{+0.12} _{-0.12}	60.82 ^{+0.27} _{-0.27}	6.87E+37	3.08E+35
2689	58730.882261523	563.0 ^{+1.3} _{-1.3}	3.8 ^{+0.6} _{-0.6}	95 ⁺⁵ ₋₅	1401	5.51 ^{+0.07} _{-0.07}	21.16 ^{+0.30} _{-0.30}	2.27E+37	3.20E+35
2690	58730.882450406	564.2 ^{+0.6} _{-0.6}	6.3 ^{+2.1} _{-2.1}	72 ⁺¹¹ ₋₁₁	1166	7.70 ^{+0.10} _{-0.10}	48.37 ^{+0.20} _{-0.20}	5.47E+37	2.26E+35
2691	58730.882498959	563.7 ^{+0.3} _{-0.3}	3.7 ^{+0.6} _{-0.6}	137 ⁺¹⁹ ₋₁₉	1130	10.82 ^{+0.13} _{-0.13}	39.82 ^{+0.08} _{-0.08}	4.50E+37	9.15E+34
2692	58730.882882588	563.1 ^{+1.2} _{-1.2}	3.3 ^{+0.8} _{-0.8}	175 ⁺¹²⁷ ₋₁₂₇	1167	8.15 ^{+0.10} _{-0.10}	26.67 ^{+0.08} _{-0.08}	3.01E+37	8.89E+34
2693	58730.883189386	563.4 ^{+1.4} _{-1.4}	5.2 ^{+2.0} _{-2.0}	60 ⁺¹¹ ₋₁₁	1357	6.98 ^{+0.09} _{-0.09}	36.07 ^{+0.17} _{-0.17}	4.08E+37	1.97E+35
2694	58730.883216765	563.0 ^{+1.4} _{-1.4}	3.0 ^{+0.5} _{-0.5}	76 ⁺⁵ ₋₅	1371	8.81 ^{+0.11} _{-0.11}	26.37 ^{+0.06} _{-0.06}	2.98E+37	6.55E+34
2695	58730.883436099	563.2 ^{+1.2} _{-1.2}	5.3 ^{+1.7} _{-1.7}	166 ⁺²⁵ ₋₂₅	1336	8.46 ^{+0.10} _{-0.10}	44.83 ^{+0.17} _{-0.17}	5.07E+37	1.93E+35
2696	58730.883731277	563.0 ^{+1.2} _{-1.2}	3.2 ^{+0.6} _{-0.6}	81 ⁺³² ₋₃₂	1335	9.82 ^{+0.12} _{-0.12}	31.56 ^{+0.07} _{-0.07}	3.57E+37	8.34E+34
2697	58730.883770032	562.7 ^{+1.4} _{-1.4}	3.2 ^{+0.5} _{-0.5}	109 ⁺⁴⁹ ₋₄₉	1328	13.40 ^{+0.16} _{-0.16}	43.05 ^{+0.09} _{-0.09}	4.87E+37	1.01E+35
2698	58730.884531762	563.1 ^{+1.2} _{-1.2}	7.0 ^{+2.7} _{-2.7}	65 ⁺⁴⁵ ₋₄₅	1360	4.82 ^{+0.06} _{-0.06}	33.52 ^{+0.15} _{-0.15}	3.79E+37	1.75E+35
2699	58730.884631130	562.8 ^{+1.1} _{-1.1}	4.7 ^{+1.6} _{-1.6}	47 ⁺³ ₋₃	1342	6.75 ^{+0.08} _{-0.08}	31.44 ^{+0.13} _{-0.13}	3.55E+37	1.43E+35
2700	58730.884749208	563.7 ^{+1.1} _{-1.1}	2.8 ^{+0.4} _{-0.4}	94 ⁺⁵ ₋₅	1402	13.54 ^{+0.16} _{-0.16}	37.51 ^{+0.07} _{-0.07}	4.24E+37	7.67E+34
2701	58730.884855168	563.0 ^{+1.2} _{-1.2}	3.9 ^{+1.9} _{-1.9}	63 ⁺¹⁵ ₋₁₅	1428	4.88 ^{+0.06} _{-0.06}	18.78 ^{+0.11} _{-0.11}	2.12E+37	1.22E+35
2702	58730.884855496	562.4 ^{+1.0} _{-1.0}	4.9 ^{+1.9} _{-1.9}	207 ⁺⁷ ₋₇	1309	5.87 ^{+0.07} _{-0.07}	28.48 ^{+0.13} _{-0.13}	3.22E+37	1.47E+35
2703	58730.885008021	563.2 ^{+1.2} _{-1.2}	1.8 ^{+0.5} _{-0.5}	56 ⁺⁵ ₋₅	1336	7.21 ^{+0.09} _{-0.09}	12.68 ^{+0.05} _{-0.05}	1.43E+37	5.31E+34
2704	58730.885008220	564.3 ^{+0.4} _{-0.4}	5.9 ^{+1.3} _{-1.3}	80 ⁺³³ ₋₃₃	1118	8.94 ^{+0.11} _{-0.11}	52.38 ^{+0.14} _{-0.14}	5.92E+37	1.55E+35
2705	58730.885160228	563.3 ^{+1.1} _{-1.1}	3.2 ^{+0.7} _{-0.7}	131 ⁺⁶ ₋₆	1374	8.42 ^{+0.10} _{-0.10}	26.76 ^{+0.07} _{-0.07}	3.02E+37	8.43E+34
2706	58730.885609985	562.4 ^{+1.2} _{-1.2}	3.5 ^{+0.9} _{-0.9}	81 ⁺³⁵ ₋₃₅	1411	9.74 ^{+0.12} _{-0.12}	34.26 ^{+0.10} _{-0.10}	3.87E+37	1.12E+35
2707	58730.885701560	563.6 ^{+1.3} _{-1.3}	2.0 ^{+0.7} _{-0.7}	343 ⁺⁷ ₋₇	1252	6.29 ^{+0.07} _{-0.07}	12.90 ^{+0.05} _{-0.05}	1.46E+37	5.96E+34
2708	58730.885851837	562.7 ^{+1.0} _{-1.0}	6.7 ^{+1.0} _{-1.0}	164 ⁺⁴ ₋₄	1293	7.49 ^{+0.09} _{-0.09}	50.49 ^{+0.68} _{-0.68}	5.40E+37	7.27E+35
2709	58730.885865733	562.8 ^{+1.3} _{-1.3}	5.6 ^{+1.1} _{-1.1}	128 ⁺³² ₋₃₂	1397	8.52 ^{+0.10} _{-0.10}	47.37 ^{+0.11} _{-0.11}	5.35E+37	1.29E+35
2710	58730.885875617	563.7 ^{+1.2} _{-1.2}	5.6 ^{+2.1} _{-2.1}	82 ⁺⁶ ₋₆	1157	6.79 ^{+0.08} _{-0.08}	38.33 ^{+0.16} _{-0.16}	4.33E+37	1.86E+35
2711	58730.886664908	564.6 ^{+0.6} _{-0.6}	5.1 ^{+1.7} _{-1.7}	80 ⁺⁹ ₋₉	1194	6.94 ^{+0.08} _{-0.08}	35.34 ^{+0.14} _{-0.14}	3.99E+37	1.60E+35
2712	58730.886930497	563.3 ^{+1.1} _{-1.1}	4.4 ^{+1.6} _{-1.6}	78 ⁺⁶ ₋₆	1257	7.01 ^{+0.08} _{-0.08}	30.80 ^{+0.13} _{-0.13}	3.48E+37	1.45E+35
2713	58730.886958970	562.6 ^{+1.2} _{-1.2}	7.1 ^{+2.1} _{-2.1}	112 ⁺²⁴ ₋₂₄	1107	8.60 ^{+0.10} _{-0.10}	60.85 ^{+0.20} _{-0.20}	6.88E+37	2.30E+35
2714	58730.887153896	562.9 ^{+0.1} _{-0.1}	1.3 ^{+0.1} _{-0.1}	420 ⁺⁶⁵ ₋₆₅	1289	280.70 ^{+17.46} _{-17.46}	364.91 ^{+1.75} _{-1.75}	3.91E+38	1.87E+36
2715	58730.887153920	562.9 ^{+0.1} _{-0.1}	4.5 ^{+0.1} _{-0.1}	438 ⁺⁶⁰ ₋₆₀	1280	602.34 ^{+7.66} _{-7.66}	2704.51 ^{+0.61} _{-0.61}	2.90E+39	6.56E+35
2716	58730.887154233	562.8 ^{+2.2} _{-2.2}	3.8 ^{+0.1} _{-0.1}	257 ⁺¹⁵ ₋₁₅	1138	306.64 ^{+6.93} _{-6.93}	1168.30 ^{+0.69} _{-0.69}	1.25E+39	7.42E+35
2717	58730.887168318	562.8 ^{+1.2} _{-1.2}	6.2 ^{+1.4} _{-1.4}	65 ⁺²⁵ ₋₂₅	1186	6.95 ^{+0.08} _{-0.08}	42.79 ^{+0.11} _{-0.11}	4.83E+37	1.22E+35
2718	58730.887168787	562.6 ^{+1.2} _{-1.2}	3.9 ^{+1.1} _{-1.1}	102 ⁺²² ₋₂₂	1414	7.08 ^{+0.08} _{-0.08}	27.74 ^{+0.09} _{-0.09}	3.13E+37	1.01E+35
2719	58730.887321905	563.0 ^{+1.3} _{-1.3}	4.3 ^{+1.2} _{-1.2}	115 ⁺⁵¹ ₋₅₁	1372	7.63 ^{+0.09} _{-0.09}	33.08 ^{+0.11} _{-0.11}	3.74E+37	1.22E+35
2720	58730.888066189	563.0 ^{+1.3} _{-1.3}	3.2 ^{+0.5} _{-0.5}	113 ⁺³² ₋₃₂	1393	11.88 ^{+0.14} _{-0.14}	38.46 ^{+0.07} _{-0.07}	4.35E+37	7.72E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2721	58730.888067902	563.2 ^{+1.1} _{-1.1}	4.2 ^{+1.2} _{-1.2}	69 ⁺²⁵ ₋₂₅	1144	7.33 ^{+0.08} _{-0.08}	30.61 ^{+0.10} _{-0.10}	3.46E+37	1.17E+35
2722	58730.888687801	562.8 ^{+1.3} _{-1.3}	5.0 ^{+1.7} _{-1.7}	172 ⁺⁵ ₋₅	1329	5.81 ^{+0.07} _{-0.07}	29.34 ^{+0.11} _{-0.11}	3.32E+37	1.29E+35
2723	58730.888935050	563.0 ^{+1.2} _{-1.2}	5.4 ^{+1.2} _{-1.2}	114 ⁺⁴ ₋₄	1327	7.43 ^{+0.08} _{-0.08}	40.04 ^{+0.10} _{-0.10}	4.52E+37	1.08E+35
2724	58730.890197680	563.0 ^{+1.3} _{-1.3}	3.8 ^{+1.1} _{-1.1}	62 ⁺³ ₋₃	1399	7.25 ^{+0.08} _{-0.08}	27.86 ^{+0.09} _{-0.09}	3.15E+37	1.02E+35
2725	58730.890337050	563.6 ^{+1.3} _{-1.3}	6.9 ^{+1.2} _{-1.2}	58 ⁺²² ₋₂₂	1218	8.61 ^{+0.10} _{-0.10}	59.11 ^{+0.12} _{-0.12}	6.68E+37	1.32E+35
2726	58730.890400042	562.8 ^{+1.1} _{-1.1}	5.6 ^{+2.3} _{-2.3}	116 ⁺⁴⁵ ₋₄₅	1156	7.84 ^{+0.09} _{-0.09}	43.84 ^{+0.20} _{-0.20}	4.95E+37	2.24E+35
2727	58730.890400197	562.2 ^{+1.0} _{-1.0}	4.6 ^{+0.8} _{-0.8}	138 ⁺⁴⁹ ₋₄₉	1151	12.10 ^{+0.13} _{-0.13}	55.13 ^{+0.10} _{-0.10}	6.23E+37	1.18E+35
2728	58730.890587936	563.8 ^{+1.2} _{-1.2}	7.0 ^{+1.0} _{-1.0}	72 ⁺³⁵ ₋₃₅	1359	8.69 ^{+0.10} _{-0.10}	60.81 ^{+0.76} _{-0.76}	6.51E+37	8.14E+35
2729	58730.890588008	563.5 ^{+1.2} _{-1.2}	4.0 ^{+1.0} _{-1.0}	70 ⁺⁴ ₋₄	1403	7.40 ^{+0.08} _{-0.08}	29.50 ^{+0.08} _{-0.08}	3.33E+37	9.37E+34
2730	58730.890630035	565.4 ^{+0.6} _{-0.6}	4.5 ^{+0.4} _{-0.4}	149 ⁺²⁷ ₋₂₇	1379	80.56 ^{+6.32} _{-6.32}	361.71 ^{+2.59} _{-2.59}	3.87E+38	2.77E+36
2731	58730.890684940	564.0 ^{+0.1} _{-0.1}	2.0 ^{+0.0} _{-0.0}	280 ⁺²⁰ ₋₂₀	1359	404.50 ^{+9.28} _{-9.28}	800.91 ^{+0.46} _{-0.46}	8.57E+38	4.97E+35
2732	58730.891004474	562.7 ^{+0.3} _{-0.3}	1.5 ^{+0.2} _{-0.2}	233 ⁺³⁵ ₋₃₅	1369	126.09 ^{+10.49} _{-10.49}	190.40 ^{+1.57} _{-1.57}	2.04E+38	1.68E+36
2733	58730.891141704	563.1 ^{+1.3} _{-1.3}	6.1 ^{+1.8} _{-1.8}	58 ⁺³¹ ₋₃₁	1248	7.72 ^{+0.08} _{-0.08}	47.46 ^{+0.15} _{-0.15}	5.36E+37	1.73E+35
2734	58730.891141980	563.4 ^{+1.1} _{-1.1}	5.3 ^{+1.0} _{-1.0}	77 ⁺⁴⁰ ₋₄₀	1387	11.42 ^{+0.12} _{-0.12}	60.11 ^{+0.12} _{-0.12}	6.79E+37	1.35E+35
2735	58730.891169155	561.3 ^{+1.0} _{-1.0}	3.8 ^{+1.0} _{-1.0}	70 ⁺¹³ ₋₁₃	1397	5.75 ^{+0.06} _{-0.06}	21.85 ^{+0.06} _{-0.06}	2.47E+37	7.00E+34
2736	58730.891213739	561.3 ^{+1.3} _{-1.3}	3.6 ^{+0.5} _{-0.5}	67 ⁺¹² ₋₁₂	1162	17.00 ^{+0.18} _{-0.18}	60.97 ^{+0.10} _{-0.10}	6.89E+37	1.11E+35
2737	58730.891320291	563.0 ^{+1.4} _{-1.4}	10.1 ^{+1.1} _{-1.1}	127 ⁺¹⁰ ₋₁₀	1169	49.34 ^{+4.34} _{-4.34}	498.83 ^{+4.64} _{-4.64}	5.34E+38	4.97E+36
2738	58730.891894956	562.6 ^{+0.5} _{-0.5}	5.3 ^{+1.2} _{-1.2}	65 ⁺⁴⁹ ₋₄₉	1369	9.77 ^{+0.10} _{-0.10}	51.96 ^{+0.12} _{-0.12}	5.87E+37	1.40E+35
2739	58730.891979684	562.9 ^{+1.3} _{-1.3}	3.0 ^{+0.5} _{-0.5}	65 ⁺⁵⁴ ₋₅₄	1349	14.08 ^{+0.15} _{-0.15}	42.85 ^{+0.07} _{-0.07}	4.84E+37	8.10E+34
2740	58730.892102968	564.7 ^{+0.9} _{-0.9}	5.1 ^{+0.5} _{-0.5}	216 ⁺⁵⁵ ₋₅₅	1309	74.08 ^{+5.78} _{-5.78}	377.07 ^{+2.72} _{-2.72}	4.04E+38	2.91E+36
2741	58730.892309524	560.7 ^{+0.6} _{-0.6}	2.8 ^{+0.5} _{-0.5}	113 ⁺⁴⁴ ₋₄₄	1091	13.24 ^{+0.14} _{-0.14}	36.53 ^{+0.07} _{-0.07}	4.13E+37	7.53E+34
2742	58730.892309503	563.4 ^{+0.3} _{-0.3}	3.3 ^{+0.3} _{-0.3}	209 ⁺⁹ ₋₉	1123	25.23 ^{+0.27} _{-0.27}	83.26 ^{+0.08} _{-0.08}	9.40E+37	9.11E+34
2743	58730.892381672	564.0 ^{+0.9} _{-0.9}	12.3 ^{+0.9} _{-0.9}	176 ⁺¹⁹ ₋₁₉	1252	63.84 ^{+3.80} _{-3.80}	783.96 ^{+3.38} _{-3.38}	8.39E+38	3.62E+36
2744	58730.892456642	563.3 ^{+1.2} _{-1.2}	5.4 ^{+0.8} _{-0.8}	201 ⁺⁴⁸ ₋₄₈	1184	13.31 ^{+0.14} _{-0.14}	72.52 ^{+0.12} _{-0.12}	8.19E+37	1.35E+35
2745	58730.892607123	562.7 ^{+1.2} _{-1.2}	7.5 ^{+3.1} _{-3.1}	72 ⁺³ ₋₃	1411	4.49 ^{+0.05} _{-0.05}	33.86 ^{+0.15} _{-0.15}	3.83E+37	1.68E+35
2746	58730.892607428	562.7 ^{+1.2} _{-1.2}	5.7 ^{+1.2} _{-1.2}	54 ⁺⁹ ₋₉	1382	9.27 ^{+0.10} _{-0.10}	52.86 ^{+0.12} _{-0.12}	5.97E+37	1.40E+35
2747	58730.893095870	562.1 ^{+1.1} _{-1.1}	12.4 ^{+1.7} _{-1.7}	175 ⁺¹⁰ ₋₁₀	1397	32.13 ^{+3.68} _{-3.68}	398.73 ^{+6.37} _{-6.37}	4.27E+38	6.82E+36
2748	58730.893198913	562.5 ^{+1.3} _{-1.3}	6.8 ^{+2.1} _{-2.1}	83 ⁺³ ₋₃	1097	6.35 ^{+0.07} _{-0.07}	43.37 ^{+0.14} _{-0.14}	4.90E+37	1.59E+35
2749	58730.893365036	563.3 ^{+1.0} _{-1.0}	4.3 ^{+0.8} _{-0.8}	46 ⁺²⁶ ₋₂₆	1382	11.45 ^{+0.12} _{-0.12}	49.55 ^{+0.10} _{-0.10}	5.60E+37	1.07E+35
2750	58730.893452009	563.7 ^{+1.1} _{-1.1}	9.0 ^{+3.4} _{-3.4}	154 ⁺¹⁴ ₋₁₄	1100	6.25 ^{+0.07} _{-0.07}	56.30 ^{+0.22} _{-0.22}	6.36E+37	2.53E+35
2751	58730.893452453	563.0 ^{+1.1} _{-1.1}	7.0 ^{+1.2} _{-1.2}	154 ⁺²² ₋₂₂	1179	37.48 ^{+5.31} _{-5.31}	263.11 ^{+6.27} _{-6.27}	2.82E+38	6.71E+36
2752	58730.893522010	564.1 ^{+0.9} _{-0.9}	4.4 ^{+1.0} _{-1.0}	130 ⁺⁵ ₋₅	1286	10.46 ^{+0.11} _{-0.11}	45.90 ^{+0.11} _{-0.11}	5.19E+37	1.20E+35
2753	58730.893586418	563.3 ^{+1.2} _{-1.2}	5.8 ^{+1.7} _{-1.7}	81 ⁺³¹ ₋₃₁	1408	6.63 ^{+0.07} _{-0.07}	38.21 ^{+0.12} _{-0.12}	4.32E+37	1.33E+35
2754	58730.893912412	561.9 ^{+0.7} _{-0.7}	5.1 ^{+1.0} _{-1.0}	338 ⁺¹⁰⁵ ₋₁₀₅	1244	10.33 ^{+0.11} _{-0.11}	53.14 ^{+0.11} _{-0.11}	6.01E+37	1.24E+35
2755	58730.893918816	563.2 ^{+1.5} _{-1.5}	6.0 ^{+1.6} _{-1.6}	88 ⁺¹⁶ ₋₁₆	1341	9.74 ^{+0.10} _{-0.10}	58.60 ^{+0.16} _{-0.16}	6.62E+37	1.82E+35
2756	58730.894454279	562.0 ^{+0.9} _{-0.9}	7.5 ^{+1.1} _{-1.1}	94 ⁺⁴² ₋₄₂	1144	6.34 ^{+0.07} _{-0.07}	47.61 ^{+0.56} _{-0.56}	5.10E+37	5.98E+35
2757	58730.894487339	562.9 ^{+1.4} _{-1.4}	6.4 ^{+1.1} _{-1.1}	164 ⁺¹² ₋₁₂	1363	15.74 ^{+0.16} _{-0.16}	100.20 ^{+0.19} _{-0.19}	1.13E+38	2.10E+35
2758	58730.894493188	562.6 ^{+1.2} _{-1.2}	3.6 ^{+0.8} _{-0.8}	61 ⁺¹⁷ ₋₁₇	1422	7.49 ^{+0.08} _{-0.08}	27.11 ^{+0.06} _{-0.06}	3.06E+37	6.55E+34
2759	58730.894928523	563.5 ^{+1.2} _{-1.2}	3.6 ^{+0.3} _{-0.3}	189 ⁺²⁶ ₋₂₆	1366	100.85 ^{+6.80} _{-6.80}	359.03 ^{+1.90} _{-1.90}	3.84E+38	2.04E+36
2760	58730.895221402	564.3 ^{+0.3} _{-0.3}	7.8 ^{+1.0} _{-1.0}	198 ⁺³⁶ ₋₃₆	1351	44.67 ^{+4.57} _{-4.57}	348.87 ^{+4.39} _{-4.39}	3.73E+38	4.70E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2761	58730.895221549	565.0 ^{+0.8} _{-0.8}	3.6 ^{+0.3} _{-0.3}	171 ⁺¹⁵ ₋₁₅	1403	93.33 ^{+6.72} _{-6.72}	332.25 ^{+2.02} _{-2.02}	3.56E+38	2.16E+36
2762	58730.895407553	563.2 ^{+1.2} _{-1.2}	3.5 ^{+0.6} _{-0.6}	55 ⁺³⁵ ₋₃₅	1390	9.46 ^{+0.10} _{-0.10}	33.49 ^{+0.06} _{-0.06}	3.78E+37	6.52E+34
2763	58730.895509639	562.5 ^{+1.3} _{-1.3}	3.1 ^{+0.6} _{-0.6}	94 ⁺¹⁵ ₋₁₅	1384	13.65 ^{+0.14} _{-0.14}	41.89 ^{+0.08} _{-0.08}	4.73E+37	9.46E+34
2764	58730.895877659	563.7 ^{+1.1} _{-1.1}	2.6 ^{+0.4} _{-0.4}	55 ⁺⁶ ₋₆	1382	12.24 ^{+0.12} _{-0.12}	31.83 ^{+0.05} _{-0.05}	3.60E+37	5.74E+34
2765	58730.895901455	562.4 ^{+1.1} _{-1.1}	3.5 ^{+0.6} _{-0.6}	125 ⁺⁴ ₋₄	1105	10.98 ^{+0.11} _{-0.11}	38.74 ^{+0.07} _{-0.07}	4.38E+37	8.08E+34
2766	58730.896063715	561.7 ^{+1.1} _{-1.1}	4.5 ^{+1.2} _{-1.2}	73 ⁺⁴⁹ ₋₄₉	1392	8.00 ^{+0.08} _{-0.08}	36.22 ^{+0.09} _{-0.09}	4.09E+37	1.04E+35
2767	58730.896129254	563.0 ^{+1.2} _{-1.2}	4.5 ^{+0.7} _{-0.7}	122 ⁺²⁹ ₋₂₉	1408	11.17 ^{+0.11} _{-0.11}	49.77 ^{+0.08} _{-0.08}	5.62E+37	8.79E+34
2768	58730.896284578	563.3 ^{+1.2} _{-1.2}	4.4 ^{+0.9} _{-0.9}	93 ⁺³⁷ ₋₃₇	1338	8.44 ^{+0.08} _{-0.08}	37.49 ^{+0.07} _{-0.07}	4.23E+37	8.21E+34
2769	58730.896285129	563.9 ^{+0.9} _{-0.9}	12.6 ^{+3.8} _{-3.8}	352 ⁺³⁶ ₋₃₆	1273	5.45 ^{+0.05} _{-0.05}	68.40 ^{+0.21} _{-0.21}	7.73E+37	2.34E+35
2770	58730.896919701	564.5 ^{+0.9} _{-0.9}	2.9 ^{+0.5} _{-0.5}	73 ⁺⁹ ₋₉	1419	8.88 ^{+0.09} _{-0.09}	25.52 ^{+0.04} _{-0.04}	2.88E+37	4.72E+34
2771	58730.897236481	563.4 ^{+0.4} _{-0.4}	1.9 ^{+0.3} _{-0.3}	111 ⁺²³ ₋₂₃	1326	15.64 ^{+0.15} _{-0.15}	29.92 ^{+0.05} _{-0.05}	3.38E+37	5.59E+34
2772	58730.897490063	565.7 ^{+0.6} _{-0.6}	7.7 ^{+1.1} _{-1.1}	117 ⁺¹⁵ ₋₁₅	1284	12.93 ^{+0.13} _{-0.13}	99.18 ^{+0.13} _{-0.13}	1.12E+38	1.50E+35
2773	58730.897626837	563.0 ^{+1.2} _{-1.2}	3.7 ^{+0.6} _{-0.6}	74 ⁺⁴⁶ ₋₄₆	1321	14.20 ^{+0.14} _{-0.14}	53.21 ^{+0.08} _{-0.08}	6.01E+37	8.59E+34
2774	58730.897636280	563.2 ^{+1.4} _{-1.4}	2.5 ^{+0.3} _{-0.3}	168 ⁺³² ₋₃₂	1306	14.98 ^{+0.15} _{-0.15}	37.93 ^{+0.04} _{-0.04}	4.29E+37	4.62E+34
2775	58730.897745853	563.7 ^{+0.7} _{-0.7}	2.9 ^{+0.4} _{-0.4}	77 ⁺¹³ ₋₁₃	1049	14.56 ^{+0.14} _{-0.14}	42.07 ^{+0.06} _{-0.06}	4.75E+37	6.76E+34
2776	58730.898811189	564.5 ^{+0.5} _{-0.5}	3.0 ^{+0.3} _{-0.3}	114 ⁺⁴⁵ ₋₄₅	1403	18.77 ^{+0.18} _{-0.18}	56.00 ^{+0.06} _{-0.06}	6.33E+37	6.65E+34
2777	58730.898977304	564.2 ^{+1.2} _{-1.2}	2.4 ^{+0.3} _{-0.3}	91 ⁺⁵ ₋₅	1312	9.55 ^{+0.09} _{-0.09}	22.57 ^{+0.03} _{-0.03}	2.55E+37	3.14E+34
2778	58730.898977554	563.2 ^{+1.3} _{-1.3}	5.3 ^{+0.7} _{-0.7}	88 ⁺³⁵ ₋₃₅	1333	11.83 ^{+0.11} _{-0.11}	63.13 ^{+0.08} _{-0.08}	7.13E+37	8.82E+34
2779	58730.899157116	562.1 ^{+0.6} _{-0.6}	6.7 ^{+1.4} _{-1.4}	43 ⁺³⁸ ₋₃₈	1066	5.48 ^{+0.07} _{-0.07}	36.67 ^{+0.10} _{-0.10}	4.14E+37	1.16E+35
2780	58730.899284477	564.0 ^{+1.1} _{-1.1}	5.6 ^{+2.2} _{-2.2}	50 ⁺³³ ₋₃₃	1394	7.73 ^{+0.10} _{-0.10}	43.62 ^{+0.21} _{-0.21}	4.93E+37	2.42E+35
2781	58730.899284724	562.8 ^{+1.1} _{-1.1}	6.4 ^{+1.4} _{-1.4}	98 ⁺³⁶ ₋₃₆	1400	8.64 ^{+0.11} _{-0.11}	55.31 ^{+0.15} _{-0.15}	6.25E+37	1.70E+35
2782	58730.899964438	563.6 ^{+0.7} _{-0.7}	2.8 ^{+0.4} _{-0.4}	129 ⁺³² ₋₃₂	1401	18.29 ^{+0.23} _{-0.23}	50.52 ^{+0.08} _{-0.08}	5.71E+37	9.25E+34
2783	58730.900001438	562.6 ^{+1.1} _{-1.1}	7.8 ^{+3.4} _{-3.4}	198 ⁺⁷⁵ ₋₇₅	1259	6.79 ^{+0.09} _{-0.09}	53.05 ^{+0.30} _{-0.30}	5.99E+37	3.37E+35
2784	58730.900050401	562.6 ^{+0.7} _{-0.7}	9.3 ^{+0.8} _{-0.8}	316 ⁺³¹ ₋₃₁	1274	60.76 ^{+4.13} _{-4.13}	563.85 ^{+3.14} _{-3.14}	6.04E+38	3.36E+36
2785	58730.900067612	564.7 ^{+0.7} _{-0.7}	2.9 ^{+0.6} _{-0.6}	48 ⁺²² ₋₂₂	1400	9.49 ^{+0.12} _{-0.12}	27.91 ^{+0.08} _{-0.08}	3.15E+37	8.60E+34
2786	58730.900088004	564.7 ^{+0.7} _{-0.7}	4.0 ^{+0.6} _{-0.6}	64 ⁺¹¹ ₋₁₁	1439	11.88 ^{+0.15} _{-0.15}	47.95 ^{+0.10} _{-0.10}	5.42E+37	1.12E+35
2787	58730.900088236	564.3 ^{+0.9} _{-0.9}	4.4 ^{+1.0} _{-1.0}	86 ⁺³² ₋₃₂	1370	8.15 ^{+0.10} _{-0.10}	35.67 ^{+0.10} _{-0.10}	4.03E+37	1.17E+35
2788	58730.900144157	563.0 ^{+1.4} _{-1.4}	6.0 ^{+1.0} _{-1.0}	68 ⁺³⁴ ₋₃₄	1409	9.99 ^{+0.13} _{-0.13}	59.67 ^{+0.13} _{-0.13}	6.74E+37	1.43E+35
2789	58730.900144746	562.7 ^{+0.9} _{-0.9}	1.7 ^{+0.2} _{-0.2}	68 ⁺²² ₋₂₂	1225	14.38 ^{+0.18} _{-0.18}	24.94 ^{+0.03} _{-0.03}	2.82E+37	3.87E+34
2790	58730.900265137	563.1 ^{+1.1} _{-1.1}	7.8 ^{+2.0} _{-2.0}	163 ⁺⁴ ₋₄	1255	8.33 ^{+0.11} _{-0.11}	65.29 ^{+0.22} _{-0.22}	7.38E+37	2.45E+35
2791	58730.900286881	562.8 ^{+1.3} _{-1.3}	4.8 ^{+0.7} _{-0.7}	92 ⁺⁴⁰ ₋₄₀	1383	13.26 ^{+0.17} _{-0.17}	63.35 ^{+0.13} _{-0.13}	7.16E+37	1.44E+35
2792	58730.900335148	562.8 ^{+0.8} _{-0.8}	4.0 ^{+0.5} _{-0.5}	79 ⁺¹² ₋₁₂	1134	14.21 ^{+0.18} _{-0.18}	57.49 ^{+0.09} _{-0.09}	6.50E+37	1.02E+35
2793	58730.900335579	563.6 ^{+1.3} _{-1.3}	5.8 ^{+2.0} _{-2.0}	82 ⁺²⁷ ₋₂₇	1140	7.62 ^{+0.10} _{-0.10}	43.91 ^{+0.19} _{-0.19}	4.96E+37	2.14E+35
2794	58730.900414522	562.6 ^{+1.3} _{-1.3}	6.0 ^{+1.8} _{-1.8}	85 ⁺¹⁴ ₋₁₄	1402	7.10 ^{+0.09} _{-0.09}	42.81 ^{+0.17} _{-0.17}	4.84E+37	1.88E+35
2795	58730.900475320	564.0 ^{+0.5} _{-0.5}	3.2 ^{+0.3} _{-0.3}	108 ⁺²² ₋₂₂	1310	18.40 ^{+0.23} _{-0.23}	58.33 ^{+0.07} _{-0.07}	6.59E+37	7.41E+34
2796	58730.900738362	562.9 ^{+1.1} _{-1.1}	5.0 ^{+1.2} _{-1.2}	252 ⁺⁷ ₋₇	1238	7.55 ^{+0.10} _{-0.10}	37.47 ^{+0.11} _{-0.11}	4.23E+37	1.27E+35
2797	58730.900871484	565.5 ^{+0.4} _{-0.4}	4.0 ^{+0.3} _{-0.3}	132 ⁺¹⁴ ₋₁₄	1422	105.84 ^{+6.34} _{-6.34}	428.65 ^{+1.78} _{-1.78}	4.59E+38	1.90E+36
2798	58730.900871829	562.2 ^{+1.5} _{-1.5}	3.7 ^{+1.1} _{-1.1}	57 ⁺²¹ ₋₂₁	1335	8.61 ^{+0.11} _{-0.11}	32.26 ^{+0.12} _{-0.12}	3.65E+37	1.33E+35
2799	58730.900982682	564.2 ^{+0.8} _{-0.8}	3.2 ^{+0.4} _{-0.4}	102 ⁺⁵⁰ ₋₅₀	1253	19.30 ^{+0.25} _{-0.25}	61.85 ^{+0.09} _{-0.09}	6.99E+37	1.06E+35
2800	58730.902139087	563.1 ^{+1.1} _{-1.1}	8.0 ^{+3.4} _{-3.4}	45 ⁺⁵ ₋₅	1428	5.58 ^{+0.07} _{-0.07}	44.58 ^{+0.24} _{-0.24}	5.04E+37	2.71E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2801	58730.902206911	562.7 ^{+1.3} _{-1.3}	4.7 ^{+1.1} _{-1.1}	47 ⁺¹³ ₋₁₃	1341	8.89 ^{+0.11} _{-0.11}	42.08 ^{+0.13} _{-0.13}	4.75E+37	1.45E+35
2802	58730.902528565	564.7 ^{+0.7} _{-0.7}	4.9 ^{+0.4} _{-0.4}	234 ⁺³² ₋₃₂	1363	79.47 ^{+5.40} _{-5.40}	388.61 ^{+2.11} _{-2.11}	4.16E+38	2.25E+36
2803	58730.902670842	563.3 ^{+1.2} _{-1.2}	3.9 ^{+0.8} _{-0.8}	93 ⁺²⁸ ₋₂₈	1397	11.30 ^{+0.14} _{-0.14}	44.48 ^{+0.12} _{-0.12}	5.03E+37	1.31E+35
2804	58730.902758070	562.6 ^{+1.2} _{-1.2}	2.7 ^{+0.8} _{-0.8}	63 ⁺³⁷ ₋₃₇	1408	8.53 ^{+0.11} _{-0.11}	22.84 ^{+0.08} _{-0.08}	2.58E+37	9.32E+34
2805	58730.902868486	564.3 ^{+1.0} _{-1.0}	4.1 ^{+0.7} _{-0.7}	65 ⁺¹¹ ₋₁₁	1429	12.20 ^{+0.15} _{-0.15}	49.77 ^{+0.11} _{-0.11}	5.62E+37	1.27E+35
2806	58730.903094935	563.3 ^{+1.1} _{-1.1}	3.1 ^{+0.5} _{-0.5}	131 ⁺¹⁰⁰ ₋₁₀₀	1331	12.69 ^{+0.16} _{-0.16}	39.68 ^{+0.08} _{-0.08}	4.48E+37	8.71E+34
2807	58730.903406770	564.0 ^{+0.6} _{-0.6}	3.9 ^{+0.2} _{-0.2}	169 ⁺¹² ₋₁₂	1246	112.65 ^{+6.24} _{-6.24}	438.21 ^{+1.56} _{-1.56}	4.69E+38	1.67E+36
2808	58730.903483988	563.6 ^{+0.7} _{-0.7}	3.0 ^{+0.4} _{-0.4}	160 ⁺²⁷ ₋₂₇	1383	19.18 ^{+0.24} _{-0.24}	57.71 ^{+0.09} _{-0.09}	6.52E+37	1.03E+35
2809	58730.903650226	563.2 ^{+0.8} _{-0.8}	3.0 ^{+0.6} _{-0.6}	103 ⁺³⁷ ₋₃₇	1373	8.06 ^{+0.10} _{-0.10}	24.40 ^{+0.06} _{-0.06}	2.76E+37	7.32E+34
2810	58730.903761478	564.9 ^{+0.9} _{-0.9}	3.8 ^{+0.5} _{-0.5}	49 ⁺³² ₋₃₂	1401	12.28 ^{+0.15} _{-0.15}	46.98 ^{+0.08} _{-0.08}	5.31E+37	9.18E+34
2811	58730.903762034	563.4 ^{+1.1} _{-1.1}	2.1 ^{+0.3} _{-0.3}	49 ⁺⁴ ₋₄	1427	8.21 ^{+0.10} _{-0.10}	17.00 ^{+0.03} _{-0.03}	1.92E+37	3.29E+34
2812	58730.903777815	564.9 ^{+0.8} _{-0.8}	3.2 ^{+0.2} _{-0.2}	165 ⁺¹⁵ ₋₁₅	1347	130.08 ^{+6.98} _{-6.98}	416.26 ^{+1.40} _{-1.40}	4.46E+38	1.49E+36
2813	58730.904247587	563.4 ^{+1.2} _{-1.2}	4.8 ^{+0.6} _{-0.6}	57 ⁺³¹ ₋₃₁	1191	13.43 ^{+0.17} _{-0.17}	64.62 ^{+0.10} _{-0.10}	7.30E+37	1.10E+35
2814	58730.904293837	562.6 ^{+1.2} _{-1.2}	5.4 ^{+1.2} _{-1.2}	296 ⁺⁴⁶ ₋₄₆	1269	7.26 ^{+0.09} _{-0.09}	39.07 ^{+0.11} _{-0.11}	4.42E+37	1.23E+35
2815	58730.904674940	564.0 ^{+1.2} _{-1.2}	5.8 ^{+1.3} _{-1.3}	91 ⁺²¹ ₋₂₁	1382	10.43 ^{+0.13} _{-0.13}	60.20 ^{+0.17} _{-0.17}	6.80E+37	1.92E+35
2816	58730.904817118	563.8 ^{+1.2} _{-1.2}	5.4 ^{+0.7} _{-0.7}	68 ⁺¹⁴ ₋₁₄	1171	9.49 ^{+0.12} _{-0.12}	51.13 ^{+0.09} _{-0.09}	5.78E+37	9.62E+34
2817	58730.905291132	563.1 ^{+1.2} _{-1.2}	3.1 ^{+0.8} _{-0.8}	61 ⁺⁴ ₋₄	1381	6.93 ^{+0.09} _{-0.09}	21.20 ^{+0.06} _{-0.06}	2.40E+37	7.24E+34
2818	58730.905369605	563.4 ^{+0.4} _{-0.4}	2.7 ^{+0.2} _{-0.2}	179 ⁺²⁵ ₋₂₅	1309	26.43 ^{+0.33} _{-0.33}	71.20 ^{+0.05} _{-0.05}	8.05E+37	5.60E+34
2819	58730.905406824	563.1 ^{+1.2} _{-1.2}	4.2 ^{+0.6} _{-0.6}	92 ⁺²¹ ₋₂₁	1325	10.03 ^{+0.12} _{-0.12}	42.08 ^{+0.59} _{-0.59}	4.50E+37	6.32E+35
2820	58730.905430696	563.4 ^{+1.1} _{-1.1}	3.0 ^{+0.4} _{-0.4}	67 ⁺²⁹ ₋₂₉	1100	10.01 ^{+0.12} _{-0.12}	29.83 ^{+0.42} _{-0.42}	3.19E+37	4.49E+35
2821	58730.905510342	562.3 ^{+1.1} _{-1.1}	7.1 ^{+1.9} _{-1.9}	66 ⁺⁴¹ ₋₄₁	1350	8.67 ^{+0.11} _{-0.11}	61.19 ^{+0.20} _{-0.20}	6.91E+37	2.25E+35
2822	58730.905647286	563.3 ^{+1.1} _{-1.1}	3.8 ^{+0.6} _{-0.6}	96 ⁺³³ ₋₃₃	1384	11.29 ^{+0.14} _{-0.14}	43.40 ^{+0.08} _{-0.08}	4.90E+37	9.29E+34
2823	58730.905667259	563.9 ^{+1.1} _{-1.1}	2.7 ^{+0.5} _{-0.5}	69 ⁺³⁴ ₋₃₄	1407	12.99 ^{+0.16} _{-0.16}	35.55 ^{+0.08} _{-0.08}	4.02E+37	9.57E+34
2824	58730.905775755	563.5 ^{+1.3} _{-1.3}	2.8 ^{+0.7} _{-0.7}	59 ⁺¹⁷ ₋₁₇	1393	8.57 ^{+0.10} _{-0.10}	24.08 ^{+0.07} _{-0.07}	2.72E+37	7.84E+34
2825	58730.905776327	563.5 ^{+0.8} _{-0.8}	1.5 ^{+0.3} _{-0.3}	115 ⁺³¹ ₋₃₁	1079	8.15 ^{+0.10} _{-0.10}	12.60 ^{+0.03} _{-0.03}	1.42E+37	3.37E+34
2826	58730.905777261	563.7 ^{+1.1} _{-1.1}	12.1 ^{+2.9} _{-2.9}	112 ⁺⁹⁷ ₋₉₇	1191	7.92 ^{+0.10} _{-0.10}	95.96 ^{+0.28} _{-0.28}	1.08E+38	3.21E+35
2827	58730.905777753	563.2 ^{+1.3} _{-1.3}	2.7 ^{+1.2} _{-1.2}	79 ⁺²⁰ ₋₂₀	1404	5.16 ^{+0.06} _{-0.06}	13.74 ^{+0.08} _{-0.08}	1.55E+37	8.93E+34
2828	58730.905899239	564.9 ^{+0.7} _{-0.7}	2.4 ^{+0.6} _{-0.6}	86 ⁺⁵ ₋₅	1380	7.79 ^{+0.10} _{-0.10}	19.07 ^{+0.06} _{-0.06}	2.16E+37	6.32E+34
2829	58730.905942394	564.3 ^{+1.1} _{-1.1}	4.1 ^{+0.4} _{-0.4}	210 ⁺²⁶ ₋₂₆	1177	17.86 ^{+0.22} _{-0.22}	73.01 ^{+0.10} _{-0.10}	8.25E+37	1.08E+35
2830	58730.906135276	563.0 ^{+0.9} _{-0.9}	3.1 ^{+0.4} _{-0.4}	111 ⁺³⁶ ₋₃₆	1163	19.58 ^{+0.24} _{-0.24}	60.91 ^{+0.09} _{-0.09}	6.88E+37	9.83E+34
2831	58730.906363749	563.6 ^{+0.6} _{-0.6}	5.8 ^{+2.8} _{-2.8}	214 ⁺⁹² ₋₉₂	1331	5.95 ^{+0.07} _{-0.07}	34.70 ^{+0.21} _{-0.21}	3.92E+37	2.34E+35
2832	58730.906363946	564.9 ^{+0.7} _{-0.7}	3.8 ^{+1.2} _{-1.2}	102 ⁺⁴ ₋₄	1306	8.07 ^{+0.10} _{-0.10}	30.90 ^{+0.12} _{-0.12}	3.49E+37	1.32E+35
2833	58730.906364098	563.2 ^{+1.4} _{-1.4}	3.2 ^{+1.2} _{-1.2}	122 ⁺⁷ ₋₇	1326	6.40 ^{+0.08} _{-0.08}	20.60 ^{+0.10} _{-0.10}	2.33E+37	1.08E+35
2834	58730.906364308	562.0 ^{+1.4} _{-1.4}	8.0 ^{+2.5} _{-2.5}	105 ⁺⁴⁹ ₋₄₉	1348	5.70 ^{+0.07} _{-0.07}	45.46 ^{+0.17} _{-0.17}	5.14E+37	1.96E+35
2835	58730.906415535	563.3 ^{+1.4} _{-1.4}	4.4 ^{+1.6} _{-1.6}	119 ⁺⁷ ₋₇	1394	7.28 ^{+0.09} _{-0.09}	31.67 ^{+0.14} _{-0.14}	3.58E+37	1.60E+35
2836	58730.906428288	562.1 ^{+0.8} _{-0.8}	3.1 ^{+0.4} _{-0.4}	103 ⁺⁷¹ ₋₇₁	1130	12.50 ^{+0.15} _{-0.15}	38.46 ^{+0.54} _{-0.54}	4.12E+37	5.77E+35
2837	58730.906777490	562.7 ^{+1.3} _{-1.3}	4.5 ^{+1.1} _{-1.1}	97 ⁺²⁰ ₋₂₀	1413	7.52 ^{+0.09} _{-0.09}	33.75 ^{+0.10} _{-0.10}	3.81E+37	1.15E+35
2838	58730.906795936	563.7 ^{+1.1} _{-1.1}	3.7 ^{+0.7} _{-0.7}	66 ⁺³⁷ ₋₃₇	1387	11.14 ^{+0.14} _{-0.14}	41.10 ^{+0.10} _{-0.10}	4.64E+37	1.09E+35
2839	58730.907021487	563.5 ^{+1.3} _{-1.3}	3.6 ^{+0.5} _{-0.5}	95 ⁺²⁴ ₋₂₄	1430	12.12 ^{+0.15} _{-0.15}	44.11 ^{+0.08} _{-0.08}	4.98E+37	8.86E+34
2840	58730.907159963	564.4 ^{+0.6} _{-0.6}	2.1 ^{+0.4} _{-0.4}	99 ⁺⁶ ₋₆	1376	8.00 ^{+0.10} _{-0.10}	16.80 ^{+0.03} _{-0.03}	1.90E+37	3.94E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2841	58730.907160140	564.0 ^{+1.0} _{-1.0}	4.7 ^{+0.9} _{-0.9}	124 ⁺³⁹ ₋₃₉	1332	12.02 ^{+0.15} _{-0.15}	55.97 ^{+0.13} _{-0.13}	6.32E+37	1.51E+35
2842	58730.907160662	562.5 ^{+1.3} _{-1.3}	2.1 ^{+0.7} _{-0.7}	249 ⁺⁹⁶ ₋₉₆	1234	7.27 ^{+0.09} _{-0.09}	15.27 ^{+0.06} _{-0.06}	1.73E+37	7.13E+34
2843	58730.907330987	562.9 ^{+1.2} _{-1.2}	4.4 ^{+1.1} _{-1.1}	128 ⁺⁹ ₋₉	1231	8.85 ^{+0.11} _{-0.11}	39.06 ^{+0.12} _{-0.12}	4.41E+37	1.36E+35
2844	58730.907349301	563.2 ^{+0.0} _{-0.0}	3.5 ^{+0.0} _{-0.0}	497 ⁺¹ ₋₁	1251	1654.83 ^{+7.67} _{-7.67}	5808.45 ^{+0.15} _{-0.15}	6.22E+39	1.64E+35
2845	58730.907392160	563.3 ^{+0.1} _{-0.1}	1.9 ^{+0.0} _{-0.0}	388 ⁺⁷⁵ ₋₇₅	1296	539.55 ^{+9.35} _{-9.35}	1041.33 ^{+0.37} _{-0.37}	1.11E+39	4.00E+35
2846	58730.907392253	563.3 ^{+0.1} _{-0.1}	3.5 ^{+0.2} _{-0.2}	148 ⁺¹⁴ ₋₁₄	1192	35.66 ^{+0.43} _{-0.43}	124.60 ^{+0.10} _{-0.10}	1.41E+38	1.10E+35
2847	58730.907575975	564.2 ^{+0.6} _{-0.6}	5.1 ^{+0.8} _{-0.8}	81 ⁺³⁰ ₋₃₀	1365	10.56 ^{+0.13} _{-0.13}	53.85 ^{+0.11} _{-0.11}	6.09E+37	1.24E+35
2848	58730.907656393	562.2 ^{+1.1} _{-1.1}	3.2 ^{+0.8} _{-0.8}	92 ⁺⁶ ₋₆	1410	7.45 ^{+0.09} _{-0.09}	24.13 ^{+0.08} _{-0.08}	2.73E+37	8.68E+34
2849	58730.907718646	564.0 ^{+0.9} _{-0.9}	2.1 ^{+0.2} _{-0.2}	121 ⁺³⁰ ₋₃₀	1184	18.54 ^{+0.23} _{-0.23}	39.70 ^{+0.06} _{-0.06}	4.49E+37	6.39E+34
2850	58730.907929201	563.3 ^{+0.1} _{-0.1}	2.7 ^{+0.1} _{-0.1}	301 ⁺⁴³ ₋₄₃	1349	446.93 ^{+8.45} _{-8.45}	1211.18 ^{+0.51} _{-0.51}	1.30E+39	5.43E+35
2851	58730.907991464	563.5 ^{+1.3} _{-1.3}	6.5 ^{+2.4} _{-2.4}	120 ⁺⁵¹ ₋₅₁	1365	5.31 ^{+0.07} _{-0.07}	34.46 ^{+0.16} _{-0.16}	3.89E+37	1.75E+35
2852	58730.908227723	563.4 ^{+1.2} _{-1.2}	7.3 ^{+0.9} _{-0.9}	145 ⁺³⁰ ₋₃₀	1219	45.06 ^{+4.50} _{-4.50}	328.49 ^{+3.87} _{-3.87}	3.52E+38	4.14E+36
2853	58730.908358870	563.0 ^{+0.9} _{-0.9}	6.1 ^{+1.6} _{-1.6}	115 ⁺²⁶ ₋₂₆	1425	7.90 ^{+0.10} _{-0.10}	47.90 ^{+0.15} _{-0.15}	5.41E+37	1.72E+35
2854	58730.908422074	563.6 ^{+1.1} _{-1.1}	4.0 ^{+1.1} _{-1.1}	107 ⁺²⁶ ₋₂₆	1373	9.65 ^{+0.12} _{-0.12}	38.95 ^{+0.13} _{-0.13}	4.40E+37	1.48E+35
2855	58730.908643614	564.8 ^{+0.9} _{-0.9}	5.8 ^{+0.8} _{-0.8}	213 ⁺¹⁴ ₋₁₄	1152	17.06 ^{+0.21} _{-0.21}	98.18 ^{+0.16} _{-0.16}	1.11E+38	1.84E+35
2856	58730.908837537	562.2 ^{+0.8} _{-0.8}	8.0 ^{+1.2} _{-1.2}	52 ⁺¹⁷ ₋₁₇	1442	11.42 ^{+0.14} _{-0.14}	91.27 ^{+0.17} _{-0.17}	1.03E+38	1.89E+35
2857	58730.908872759	564.4 ^{+0.3} _{-0.3}	3.2 ^{+0.1} _{-0.1}	218 ⁺¹¹ ₋₁₁	1388	221.41 ^{+6.96} _{-6.96}	717.37 ^{+0.84} _{-0.84}	7.68E+38	8.94E+35
2858	58732.868851869	562.9 ^{+1.1} _{-1.1}	5.3 ^{+0.8} _{-0.8}	93 ⁺²¹ ₋₂₁	1138	6.09 ^{+0.09} _{-0.09}	32.54 ^{+0.53} _{-0.53}	3.48E+37	5.63E+35
2859	58732.868922051	563.1 ^{+1.1} _{-1.1}	5.8 ^{+0.7} _{-0.7}	208 ⁺⁴¹ ₋₄₁	1387	19.90 ^{+0.28} _{-0.28}	115.89 ^{+0.19} _{-0.19}	1.31E+38	2.17E+35
2860	58732.868954939	562.6 ^{+1.3} _{-1.3}	5.9 ^{+0.9} _{-0.9}	46 ⁺³³ ₋₃₃	1345	6.96 ^{+0.10} _{-0.10}	41.38 ^{+0.67} _{-0.67}	4.43E+37	7.14E+35
2861	58732.869113289	562.8 ^{+1.4} _{-1.4}	3.8 ^{+0.5} _{-0.5}	86 ⁺¹⁷ ₋₁₇	1281	10.11 ^{+0.14} _{-0.14}	38.05 ^{+0.61} _{-0.61}	4.07E+37	6.54E+35
2862	58732.869113354	562.8 ^{+1.4} _{-1.4}	5.9 ^{+1.1} _{-1.1}	105 ⁺⁴ ₋₄	1272	10.71 ^{+0.15} _{-0.15}	63.40 ^{+0.16} _{-0.16}	7.16E+37	1.85E+35
2863	58732.869285558	561.4 ^{+0.9} _{-0.9}	4.5 ^{+1.5} _{-1.5}	86 ⁺¹⁹ ₋₁₉	1384	8.16 ^{+0.11} _{-0.11}	36.89 ^{+0.17} _{-0.17}	4.17E+37	1.94E+35
2864	58732.869286593	561.2 ^{+0.7} _{-0.7}	4.7 ^{+1.3} _{-1.3}	204 ⁺⁴ ₋₄	1141	6.19 ^{+0.09} _{-0.09}	29.08 ^{+0.12} _{-0.12}	3.29E+37	1.33E+35
2865	58732.869663828	563.1 ^{+1.2} _{-1.2}	5.4 ^{+1.1} _{-1.1}	65 ⁺⁴⁶ ₋₄₆	1272	11.23 ^{+0.16} _{-0.16}	60.78 ^{+0.17} _{-0.17}	6.87E+37	1.95E+35
2866	58732.869855388	562.9 ^{+1.2} _{-1.2}	2.7 ^{+1.0} _{-1.0}	84 ⁺⁴ ₋₄	1375	6.05 ^{+0.08} _{-0.08}	16.21 ^{+0.08} _{-0.08}	1.83E+37	9.49E+34
2867	58732.869856118	562.9 ^{+1.2} _{-1.2}	6.6 ^{+1.1} _{-1.1}	125 ⁺¹⁹ ₋₁₉	1421	16.00 ^{+0.22} _{-0.22}	105.02 ^{+0.24} _{-0.24}	1.19E+38	2.73E+35
2868	58732.870043432	563.5 ^{+1.0} _{-1.0}	4.7 ^{+0.7} _{-0.7}	163 ⁺³⁵ ₋₃₅	1287	17.48 ^{+0.24} _{-0.24}	82.00 ^{+1.30} _{-1.30}	8.78E+37	1.39E+36
2869	58732.870365703	563.5 ^{+0.3} _{-0.3}	6.7 ^{+1.0} _{-1.0}	172 ⁺²² ₋₂₂	1391	25.36 ^{+0.35} _{-0.35}	170.81 ^{+2.69} _{-2.69}	1.83E+38	2.88E+36
2870	58732.870426825	563.6 ^{+0.3} _{-0.3}	2.3 ^{+0.4} _{-0.4}	303 ⁺³¹ ₋₃₁	1323	15.17 ^{+0.21} _{-0.21}	35.50 ^{+0.09} _{-0.09}	4.01E+37	9.75E+34
2871	58732.870676256	563.3 ^{+1.1} _{-1.1}	3.5 ^{+0.5} _{-0.5}	133 ⁺¹⁷ ₋₁₇	1404	17.75 ^{+0.24} _{-0.24}	62.75 ^{+0.98} _{-0.98}	6.72E+37	1.05E+36
2872	58732.870959304	563.8 ^{+1.0} _{-1.0}	6.2 ^{+1.2} _{-1.2}	47 ⁺¹¹ ₋₁₁	1331	12.35 ^{+0.17} _{-0.17}	77.15 ^{+0.21} _{-0.21}	8.72E+37	2.39E+35
2873	58732.871046772	564.8 ^{+0.3} _{-0.3}	2.1 ^{+0.3} _{-0.3}	81 ⁺²⁶ ₋₂₆	1357	17.77 ^{+0.24} _{-0.24}	37.32 ^{+0.58} _{-0.58}	3.99E+37	6.22E+35
2874	58732.871097234	563.1 ^{+1.5} _{-1.5}	5.8 ^{+1.7} _{-1.7}	147 ⁺⁵ ₋₅	1286	8.76 ^{+0.12} _{-0.12}	51.13 ^{+0.21} _{-0.21}	5.78E+37	2.37E+35
2875	58732.871159300	563.1 ^{+1.2} _{-1.2}	4.2 ^{+0.7} _{-0.7}	76 ⁺³¹ ₋₃₁	1263	13.66 ^{+0.19} _{-0.19}	57.48 ^{+0.14} _{-0.14}	6.50E+37	1.56E+35
2876	58732.871179478	562.5 ^{+0.8} _{-0.8}	6.5 ^{+2.5} _{-2.5}	66 ⁺²⁴ ₋₂₄	1392	6.29 ^{+0.09} _{-0.09}	40.95 ^{+0.21} _{-0.21}	4.63E+37	2.43E+35
2877	58732.871314076	563.8 ^{+0.6} _{-0.6}	4.5 ^{+1.4} _{-1.4}	189 ⁺⁴ ₋₄	1315	12.01 ^{+0.17} _{-0.17}	53.60 ^{+0.23} _{-0.23}	6.06E+37	2.65E+35
2878	58732.871512828	563.9 ^{+1.0} _{-1.0}	8.1 ^{+3.8} _{-3.8}	83 ⁺¹¹ ₋₁₁	1361	5.49 ^{+0.07} _{-0.07}	44.28 ^{+0.28} _{-0.28}	5.00E+37	3.18E+35
2879	58732.871513022	563.5 ^{+1.2} _{-1.2}	3.5 ^{+0.5} _{-0.5}	51 ⁺²¹ ₋₂₁	1395	14.69 ^{+0.20} _{-0.20}	51.28 ^{+0.79} _{-0.79}	5.49E+37	8.47E+35
2880	58732.871848795	564.4 ^{+0.9} _{-0.9}	2.9 ^{+0.9} _{-0.9}	94 ⁺⁴¹ ₋₄₁	1315	10.56 ^{+0.14} _{-0.14}	30.79 ^{+0.13} _{-0.13}	3.48E+37	1.49E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2881	58732.871867178	563.5 ^{+1.2} _{-1.2}	3.0 ^{+0.6} _{-0.6}	50 ⁺⁹ ₋₉	1462	10.89 ^{+0.15} _{-0.15}	33.14 ^{+0.09} _{-0.09}	3.74E+37	9.92E+34
2882	58732.871957412	562.6 ^{+1.3} _{-1.3}	2.9 ^{+1.5} _{-1.5}	252 ⁺¹²² ₋₁₂₂	1156	6.02 ^{+0.08} _{-0.08}	17.29 ^{+0.12} _{-0.12}	1.95E+37	1.41E+35
2883	58732.871958002	563.1 ^{+1.0} _{-1.0}	6.5 ^{+1.4} _{-1.4}	105 ⁺³⁵ ₋₃₅	1111	9.61 ^{+0.13} _{-0.13}	62.58 ^{+0.18} _{-0.18}	7.07E+37	2.05E+35
2884	58732.876161412	562.4 ^{+1.0} _{-1.0}	3.4 ^{+1.0} _{-1.0}	71 ⁺⁴ ₋₄	1417	8.90 ^{+0.11} _{-0.11}	30.55 ^{+0.11} _{-0.11}	3.45E+37	1.20E+35
2885	58732.876272391	563.1 ^{+1.3} _{-1.3}	2.5 ^{+0.7} _{-0.7}	69 ⁺¹³ ₋₁₃	1392	8.35 ^{+0.10} _{-0.10}	21.21 ^{+0.07} _{-0.07}	2.40E+37	7.99E+34
2886	58732.876282107	564.1 ^{+0.9} _{-0.9}	3.1 ^{+0.5} _{-0.5}	226 ⁺⁶⁵ ₋₆₅	1340	18.60 ^{+0.23} _{-0.23}	58.18 ^{+0.83} _{-0.83}	6.23E+37	8.93E+35
2887	58732.876558864	562.7 ^{+1.3} _{-1.3}	2.9 ^{+0.6} _{-0.6}	60 ⁺¹² ₋₁₂	1128	11.84 ^{+0.15} _{-0.15}	34.10 ^{+0.09} _{-0.09}	3.85E+37	1.01E+35
2888	58732.876903840	562.5 ^{+1.1} _{-1.1}	5.5 ^{+0.8} _{-0.8}	168 ⁺⁶¹ ₋₆₁	1348	11.13 ^{+0.14} _{-0.14}	61.60 ^{+0.87} _{-0.87}	6.59E+37	9.36E+35
2889	58732.877216859	562.6 ^{+1.0} _{-1.0}	7.2 ^{+1.9} _{-1.9}	68 ⁺²² ₋₂₂	1370	6.93 ^{+0.09} _{-0.09}	49.68 ^{+0.16} _{-0.16}	5.61E+37	1.83E+35
2890	58732.877302181	564.1 ^{+1.1} _{-1.1}	3.3 ^{+0.9} _{-0.9}	67 ⁺³ ₋₃	1399	8.53 ^{+0.10} _{-0.10}	28.55 ^{+0.10} _{-0.10}	3.23E+37	1.10E+35
2891	58732.877757443	565.2 ^{+0.2} _{-0.2}	3.0 ^{+0.4} _{-0.4}	86 ⁺⁶⁰ ₋₆₀	1368	12.89 ^{+0.16} _{-0.16}	38.26 ^{+0.54} _{-0.54}	4.10E+37	5.74E+35
2892	58732.877758824	565.0 ^{+0.9} _{-0.9}	4.1 ^{+0.8} _{-0.8}	97 ⁺⁵⁶ ₋₅₆	1288	12.06 ^{+0.15} _{-0.15}	49.00 ^{+0.11} _{-0.11}	5.54E+37	1.28E+35
2893	58732.877855085	565.1 ^{+0.2} _{-0.2}	3.9 ^{+0.6} _{-0.6}	78 ⁺⁴⁶ ₋₄₆	1413	16.30 ^{+0.20} _{-0.20}	62.90 ^{+0.12} _{-0.12}	7.10E+37	1.36E+35
2894	58732.877855550	562.3 ^{+0.4} _{-0.4}	3.2 ^{+1.3} _{-1.3}	69 ⁺¹² ₋₁₂	1340	9.67 ^{+0.12} _{-0.12}	31.31 ^{+0.15} _{-0.15}	3.54E+37	1.71E+35
2895	58732.877855736	560.7 ^{+0.4} _{-0.4}	2.9 ^{+1.0} _{-1.0}	63 ⁺²⁵ ₋₂₅	1412	9.80 ^{+0.12} _{-0.12}	28.90 ^{+0.12} _{-0.12}	3.27E+37	1.40E+35
2896	58732.877954525	562.3 ^{+1.4} _{-1.4}	4.7 ^{+1.1} _{-1.1}	110 ⁺⁴⁶ ₋₄₆	1360	12.16 ^{+0.15} _{-0.15}	57.26 ^{+0.16} _{-0.16}	6.47E+37	1.76E+35
2897	58732.878316738	563.7 ^{+1.4} _{-1.4}	3.7 ^{+0.6} _{-0.6}	62 ⁺³ ₋₃	1414	11.37 ^{+0.14} _{-0.14}	42.52 ^{+0.09} _{-0.09}	4.80E+37	9.75E+34
2898	58732.878412423	563.6 ^{+1.1} _{-1.1}	6.4 ^{+1.0} _{-1.0}	137 ⁺³⁴ ₋₃₄	1166	8.82 ^{+0.11} _{-0.11}	56.73 ^{+0.10} _{-0.10}	6.41E+37	1.15E+35
2899	58732.878567604	564.1 ^{+0.9} _{-0.9}	7.2 ^{+1.0} _{-1.0}	90 ⁺⁸ ₋₈	1236	6.08 ^{+0.07} _{-0.07}	43.80 ^{+0.61} _{-0.61}	4.69E+37	6.53E+35
2900	58732.878694277	563.5 ^{+1.3} _{-1.3}	2.4 ^{+0.6} _{-0.6}	61 ⁺³⁴ ₋₃₄	1338	7.08 ^{+0.09} _{-0.09}	16.97 ^{+0.05} _{-0.05}	1.92E+37	5.77E+34
2901	58732.878851421	563.0 ^{+1.2} _{-1.2}	2.7 ^{+0.8} _{-0.8}	189 ⁺⁵ ₋₅	1256	9.09 ^{+0.11} _{-0.11}	24.11 ^{+0.08} _{-0.08}	2.72E+37	9.32E+34
2902	58732.878982377	562.8 ^{+1.2} _{-1.2}	8.6 ^{+1.2} _{-1.2}	80 ⁺¹⁶ ₋₁₆	1387	8.97 ^{+0.11} _{-0.11}	76.83 ^{+1.06} _{-1.06}	8.22E+37	1.13E+36
2903	58732.879078710	565.0 ^{+0.5} _{-0.5}	2.8 ^{+0.6} _{-0.6}	159 ⁺¹¹⁴ ₋₁₁₄	1310	11.36 ^{+0.14} _{-0.14}	31.76 ^{+0.08} _{-0.08}	3.59E+37	9.47E+34
2904	58732.879141027	561.9 ^{+1.1} _{-1.1}	6.0 ^{+2.5} _{-2.5}	74 ⁺²⁹ ₋₂₉	1389	5.85 ^{+0.07} _{-0.07}	34.88 ^{+0.17} _{-0.17}	3.94E+37	1.97E+35
2905	58732.879141377	565.1 ^{+0.6} _{-0.6}	4.2 ^{+1.1} _{-1.1}	159 ⁺¹²⁸ ₋₁₂₈	1347	12.94 ^{+0.15} _{-0.15}	54.21 ^{+0.16} _{-0.16}	6.13E+37	1.84E+35
2906	58732.879141613	563.8 ^{+0.6} _{-0.6}	6.2 ^{+2.9} _{-2.9}	63 ⁺²⁵ ₋₂₅	1353	4.69 ^{+0.06} _{-0.06}	29.04 ^{+0.16} _{-0.16}	3.28E+37	1.81E+35
2907	58732.879148702	563.3 ^{+1.3} _{-1.3}	3.6 ^{+0.5} _{-0.5}	117 ⁺²¹ ₋₂₁	1068	27.17 ^{+0.33} _{-0.33}	98.53 ^{+1.35} _{-1.35}	1.05E+38	1.45E+36
2908	58732.879390507	563.3 ^{+1.1} _{-1.1}	5.8 ^{+1.7} _{-1.7}	121 ⁺³⁸ ₋₃₈	1265	8.48 ^{+0.10} _{-0.10}	49.22 ^{+0.17} _{-0.17}	5.56E+37	1.97E+35
2909	58732.879772856	564.9 ^{+0.3} _{-0.3}	7.4 ^{+1.0} _{-1.0}	153 ⁺⁴⁷ ₋₄₇	1395	15.63 ^{+0.19} _{-0.19}	116.40 ^{+0.19} _{-0.19}	1.32E+38	2.19E+35
2910	58732.879773013	562.4 ^{+1.4} _{-1.4}	8.4 ^{+2.0} _{-2.0}	51 ⁺²⁷ ₋₂₇	1403	8.23 ^{+0.10} _{-0.10}	69.16 ^{+0.19} _{-0.19}	7.81E+37	2.19E+35
2911	58732.880182776	562.9 ^{+1.3} _{-1.3}	4.5 ^{+0.6} _{-0.6}	333 ⁺³¹ ₋₃₁	1309	24.25 ^{+0.28} _{-0.28}	108.59 ^{+1.46} _{-1.46}	1.16E+38	1.56E+36
2912	58732.880184565	563.3 ^{+0.3} _{-0.3}	7.2 ^{+1.5} _{-1.5}	154 ⁺²³ ₋₂₃	1178	11.81 ^{+0.14} _{-0.14}	85.45 ^{+0.21} _{-0.21}	9.66E+37	2.39E+35
2913	58732.880348502	563.2 ^{+1.3} _{-1.3}	4.7 ^{+0.7} _{-0.7}	355 ⁺³⁹ ₋₃₉	1305	24.04 ^{+0.28} _{-0.28}	112.70 ^{+1.52} _{-1.52}	1.21E+38	1.62E+36
2914	58732.880361227	561.9 ^{+0.5} _{-0.5}	3.4 ^{+1.0} _{-1.0}	46 ⁺¹³ ₋₁₃	1428	9.83 ^{+0.12} _{-0.12}	33.83 ^{+0.11} _{-0.11}	3.82E+37	1.25E+35
2915	58732.952250841	563.0 ^{+0.6} _{-0.6}	4.7 ^{+0.6} _{-0.6}	242 ⁺⁹ ₋₉	1132	20.54 ^{+0.17} _{-0.17}	96.91 ^{+0.10} _{-0.10}	1.10E+38	1.09E+35
2916	58732.952250901	562.6 ^{+0.4} _{-0.4}	3.2 ^{+0.5} _{-0.5}	109 ⁺⁶¹ ₋₆₁	1289	12.98 ^{+0.10} _{-0.10}	41.15 ^{+0.05} _{-0.05}	4.65E+37	5.51E+34
2917	58732.952511784	562.6 ^{+1.1} _{-1.1}	7.5 ^{+1.1} _{-1.1}	84 ⁺⁷¹ ₋₇₁	1342	7.78 ^{+0.06} _{-0.06}	58.58 ^{+0.54} _{-0.54}	6.27E+37	5.81E+35
2918	58732.953037912	562.2 ^{+1.1} _{-1.1}	2.9 ^{+0.5} _{-0.5}	106 ⁺²⁹ ₋₂₉	1284	11.42 ^{+0.09} _{-0.09}	32.62 ^{+0.04} _{-0.04}	3.69E+37	4.84E+34
2919	58732.953038101	564.5 ^{+1.0} _{-1.0}	2.0 ^{+0.7} _{-0.7}	83 ⁺⁴⁴ ₋₄₄	1364	14.08 ^{+0.12} _{-0.12}	28.01 ^{+0.08} _{-0.08}	3.17E+37	8.82E+34
2920	58732.953038282	564.1 ^{+0.5} _{-0.5}	4.5 ^{+1.5} _{-1.5}	158 ⁺⁴⁵ ₋₄₅	1204	12.61 ^{+0.10} _{-0.10}	57.22 ^{+0.15} _{-0.15}	6.47E+37	1.73E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2921	58732.953038473	563.3 ^{+0.9} _{-0.9}	2.6 ^{+0.4} _{-0.4}	230 ⁺¹⁷⁵ ₋₁₇₅	1197	10.32 ^{+0.09} _{-0.09}	26.93 ^{+0.03} _{-0.03}	3.04E+37	3.93E+34
2922	58732.953104751	564.3 ^{+1.0} _{-1.0}	6.5 ^{+1.5} _{-1.5}	58 ⁺²⁵ ₋₂₅	1326	10.33 ^{+0.08} _{-0.08}	67.34 ^{+0.12} _{-0.12}	7.61E+37	1.38E+35
2923	58732.953105108	562.7 ^{+1.1} _{-1.1}	7.3 ^{+1.5} _{-1.5}	51 ⁺¹¹ ₋₁₁	1283	6.32 ^{+0.05} _{-0.05}	45.87 ^{+0.08} _{-0.08}	5.18E+37	8.92E+34
2924	58732.953214335	564.7 ^{+0.5} _{-0.5}	3.2 ^{+0.3} _{-0.3}	147 ⁺³⁹ ₋₃₉	1411	64.35 ^{+5.60} _{-5.60}	204.63 ^{+1.79} _{-1.79}	2.19E+38	1.92E+36
2925	58732.953240824	563.1 ^{+1.1} _{-1.1}	3.3 ^{+0.5} _{-0.5}	51 ⁺³³ ₋₃₃	1402	8.96 ^{+0.07} _{-0.07}	29.55 ^{+0.03} _{-0.03}	3.34E+37	3.91E+34
2926	58732.953241230	562.5 ^{+1.0} _{-1.0}	2.8 ^{+0.8} _{-0.8}	104 ⁺⁵² ₋₅₂	1333	5.85 ^{+0.05} _{-0.05}	16.35 ^{+0.04} _{-0.04}	1.85E+37	4.32E+34
2927	58732.953307465	563.5 ^{+1.1} _{-1.1}	3.5 ^{+1.0} _{-1.0}	188 ⁺⁴³ ₋₄₃	1343	9.12 ^{+0.07} _{-0.07}	31.56 ^{+0.08} _{-0.08}	3.57E+37	8.80E+34
2928	58732.953331377	562.4 ^{+1.2} _{-1.2}	7.2 ^{+1.7} _{-1.7}	52 ⁺⁹ ₋₉	1424	7.40 ^{+0.06} _{-0.06}	53.20 ^{+0.10} _{-0.10}	6.01E+37	1.17E+35
2929	58732.953331484	562.5 ^{+1.2} _{-1.2}	2.6 ^{+0.7} _{-0.7}	140 ⁺⁵⁴ ₋₅₄	1357	5.64 ^{+0.04} _{-0.04}	14.50 ^{+0.03} _{-0.03}	1.64E+37	3.35E+34
2930	58732.953332857	563.1 ^{+1.2} _{-1.2}	2.7 ^{+0.3} _{-0.3}	110 ⁺¹⁰⁷ ₋₁₀₇	1163	12.17 ^{+0.10} _{-0.10}	32.91 ^{+0.03} _{-0.03}	3.72E+37	3.93E+34
2931	58732.953357946	563.1 ^{+1.5} _{-1.5}	7.6 ^{+1.3} _{-1.3}	283 ⁺¹⁶ ₋₁₆	1309	8.30 ^{+0.07} _{-0.07}	63.25 ^{+0.09} _{-0.09}	7.15E+37	1.03E+35
2932	58732.953358175	563.8 ^{+1.2} _{-1.2}	6.0 ^{+1.7} _{-1.7}	282 ⁺²⁵ ₋₂₅	1313	16.21 ^{+0.13} _{-0.13}	96.58 ^{+0.22} _{-0.22}	1.09E+38	2.51E+35
2933	58732.953358406	563.1 ^{+1.5} _{-1.5}	4.9 ^{+0.7} _{-0.7}	283 ⁺¹⁶ ₋₁₆	1309	16.39 ^{+0.13} _{-0.13}	79.84 ^{+0.74} _{-0.74}	8.55E+37	7.87E+35
2934	58732.953358526	563.4 ^{+1.1} _{-1.1}	1.6 ^{+0.4} _{-0.4}	178 ⁺³ ₋₃	1256	10.86 ^{+0.09} _{-0.09}	17.90 ^{+0.04} _{-0.04}	2.02E+37	4.28E+34
2935	58732.953358729	562.5 ^{+0.5} _{-0.5}	3.3 ^{+1.1} _{-1.1}	265 ⁺¹⁰² ₋₁₀₂	1208	6.61 ^{+0.05} _{-0.05}	21.56 ^{+0.06} _{-0.06}	2.43E+37	6.40E+34
2936	58732.953514811	563.2 ^{+1.0} _{-1.0}	2.4 ^{+0.7} _{-0.7}	109 ⁺⁵ ₋₅	1357	7.54 ^{+0.06} _{-0.06}	17.76 ^{+0.04} _{-0.04}	2.01E+37	4.79E+34
2937	58732.953529133	563.0 ^{+1.1} _{-1.1}	3.6 ^{+1.0} _{-1.0}	63 ⁺⁴³ ₋₄₃	1168	8.85 ^{+0.07} _{-0.07}	31.58 ^{+0.07} _{-0.07}	3.57E+37	8.36E+34
2938	58732.953574409	562.8 ^{+1.2} _{-1.2}	5.4 ^{+2.0} _{-2.0}	73 ⁺²⁸ ₋₂₈	1061	6.63 ^{+0.05} _{-0.05}	35.91 ^{+0.11} _{-0.11}	4.06E+37	1.22E+35
2939	58732.953602401	562.4 ^{+1.2} _{-1.2}	14.9 ^{+3.3} _{-3.3}	88 ⁺⁴² ₋₄₂	1295	10.98 ^{+0.09} _{-0.09}	163.75 ^{+0.30} _{-0.30}	1.85E+38	3.36E+35
2940	58732.953611576	561.7 ^{+0.7} _{-0.7}	1.6 ^{+0.3} _{-0.3}	387 ⁺³⁴ ₋₃₄	1304	50.09 ^{+7.56} _{-7.56}	82.65 ^{+2.19} _{-2.19}	8.85E+37	2.35E+36
2941	58732.953618312	563.2 ^{+1.3} _{-1.3}	2.5 ^{+0.7} _{-0.7}	123 ⁺⁷⁶ ₋₇₆	1362	6.07 ^{+0.05} _{-0.05}	14.97 ^{+0.03} _{-0.03}	1.69E+37	3.60E+34
2942	58732.953653894	563.0 ^{+1.2} _{-1.2}	4.1 ^{+1.7} _{-1.7}	59 ⁺⁵ ₋₅	1430	4.96 ^{+0.04} _{-0.04}	20.21 ^{+0.07} _{-0.07}	2.28E+37	7.79E+34
2943	58732.953654075	564.4 ^{+0.5} _{-0.5}	3.8 ^{+1.0} _{-1.0}	50 ⁺⁸ ₋₈	1164	8.37 ^{+0.07} _{-0.07}	31.45 ^{+0.07} _{-0.07}	3.55E+37	7.98E+34
2944	58732.953837500	562.8 ^{+0.8} _{-0.8}	3.0 ^{+0.6} _{-0.6}	68 ⁺⁴⁵ ₋₄₅	1309	10.96 ^{+0.09} _{-0.09}	33.08 ^{+0.06} _{-0.06}	3.74E+37	6.35E+34
2945	58732.953864287	563.0 ^{+1.2} _{-1.2}	4.2 ^{+0.9} _{-0.9}	70 ⁺⁵ ₋₅	1406	10.44 ^{+0.09} _{-0.09}	43.56 ^{+0.08} _{-0.08}	4.92E+37	9.15E+34
2946	58732.953871327	564.0 ^{+0.7} _{-0.7}	2.7 ^{+0.7} _{-0.7}	104 ⁺⁴⁸ ₋₄₈	1290	10.84 ^{+0.09} _{-0.09}	28.76 ^{+0.06} _{-0.06}	3.25E+37	7.16E+34
2947	58732.954028736	562.5 ^{+1.2} _{-1.2}	3.9 ^{+1.0} _{-1.0}	57 ⁺⁷ ₋₇	1401	7.61 ^{+0.06} _{-0.06}	29.76 ^{+0.06} _{-0.06}	3.36E+37	6.78E+34
2948	58732.954069721	563.8 ^{+0.7} _{-0.7}	2.4 ^{+0.9} _{-0.9}	67 ⁺⁶ ₋₆	1407	6.66 ^{+0.05} _{-0.05}	15.97 ^{+0.05} _{-0.05}	1.80E+37	5.56E+34
2949	58732.954180842	562.7 ^{+1.4} _{-1.4}	8.0 ^{+1.9} _{-1.9}	61 ⁺⁹ ₋₉	1443	12.25 ^{+0.10} _{-0.10}	98.20 ^{+0.19} _{-0.19}	1.11E+38	2.12E+35
2950	58732.954222249	564.7 ^{+0.3} _{-0.3}	3.2 ^{+1.0} _{-1.0}	72 ⁺⁵⁵ ₋₅₅	1309	7.50 ^{+0.06} _{-0.06}	24.10 ^{+0.06} _{-0.06}	2.72E+37	6.56E+34
2951	58732.954222484	564.1 ^{+0.4} _{-0.4}	4.3 ^{+0.6} _{-0.6}	101 ⁺⁵³ ₋₅₃	1217	20.25 ^{+0.16} _{-0.16}	87.17 ^{+0.80} _{-0.80}	9.33E+37	8.54E+35
2952	58732.954256376	563.9 ^{+1.0} _{-1.0}	1.8 ^{+0.2} _{-0.2}	315 ⁺¹⁰ ₋₁₀	1249	14.35 ^{+0.12} _{-0.12}	25.99 ^{+0.03} _{-0.03}	2.94E+37	3.16E+34
2953	58732.954411936	562.6 ^{+1.2} _{-1.2}	9.7 ^{+2.5} _{-2.5}	118 ⁺¹⁹ ₋₁₉	1251	8.91 ^{+0.07} _{-0.07}	86.30 ^{+0.18} _{-0.18}	9.75E+37	2.05E+35
2954	58732.954433648	563.1 ^{+1.4} _{-1.4}	3.0 ^{+0.4} _{-0.4}	155 ⁺²⁴ ₋₂₄	1226	6.92 ^{+0.06} _{-0.06}	20.48 ^{+0.19} _{-0.19}	2.19E+37	1.99E+35
2955	58732.954532930	561.6 ^{+1.0} _{-1.0}	5.7 ^{+0.8} _{-0.8}	77 ⁺¹⁷ ₋₁₇	1154	9.54 ^{+0.08} _{-0.08}	54.44 ^{+0.50} _{-0.50}	5.83E+37	5.31E+35
2956	58732.954616025	562.8 ^{+1.1} _{-1.1}	3.5 ^{+0.7} _{-0.7}	87 ⁺⁵⁶ ₋₅₆	1368	8.49 ^{+0.07} _{-0.07}	30.03 ^{+0.05} _{-0.05}	3.39E+37	5.69E+34
2957	58732.954767845	562.5 ^{+0.5} _{-0.5}	2.3 ^{+0.3} _{-0.3}	93 ⁺⁴ ₋₄	1173	11.01 ^{+0.09} _{-0.09}	24.80 ^{+0.03} _{-0.03}	2.80E+37	3.45E+34
2958	58732.954781881	562.3 ^{+0.4} _{-0.4}	7.0 ^{+1.4} _{-1.4}	116 ⁺²⁸ ₋₂₈	1370	9.84 ^{+0.08} _{-0.08}	68.42 ^{+0.11} _{-0.11}	7.73E+37	1.22E+35
2959	58732.954784029	564.2 ^{+1.4} _{-1.4}	6.3 ^{+0.4} _{-0.4}	216 ⁺²¹ ₋₂₁	1247	67.24 ^{+4.05} _{-4.05}	421.59 ^{+1.82} _{-1.82}	4.51E+38	1.95E+36
2960	58732.954791445	564.6 ^{+0.7} _{-0.7}	2.5 ^{+0.5} _{-0.5}	71 ⁺¹⁹ ₋₁₉	1366	11.08 ^{+0.09} _{-0.09}	28.07 ^{+0.04} _{-0.04}	3.17E+37	4.79E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
2961	58732.954796531	564.1 ^{+0.5} _{-0.5}	1.8 ^{+0.4} _{-0.4}	76 ⁺¹⁸ ₋₁₈	1368	10.48 ^{+0.09} _{-0.09}	18.45 ^{+0.03} _{-0.03}	2.08E+37	3.61E+34
2962	58732.954816560	564.0 ^{+1.0} _{-1.0}	4.8 ^{+0.7} _{-0.7}	122 ⁺⁴⁴ ₋₄₄	1315	11.94 ^{+0.10} _{-0.10}	57.66 ^{+0.07} _{-0.07}	6.52E+37	7.95E+34
2963	58732.954930504	563.5 ^{+1.1} _{-1.1}	4.8 ^{+1.2} _{-1.2}	93 ⁺⁴ ₋₄	1287	9.68 ^{+0.08} _{-0.08}	46.55 ^{+0.09} _{-0.09}	5.26E+37	1.02E+35
2964	58732.954994748	563.0 ^{+1.3} _{-1.3}	3.0 ^{+0.8} _{-0.8}	50 ⁺¹⁶ ₋₁₆	1254	5.53 ^{+0.04} _{-0.04}	16.37 ^{+0.03} _{-0.03}	1.85E+37	3.76E+34
2965	58732.954995101	563.1 ^{+1.3} _{-1.3}	2.6 ^{+1.2} _{-1.2}	56 ⁺⁶ ₋₆	1419	5.84 ^{+0.05} _{-0.05}	15.25 ^{+0.06} _{-0.06}	1.72E+37	6.39E+34
2966	58732.955023479	563.2 ^{+0.4} _{-0.4}	1.5 ^{+0.1} _{-0.1}	60 ⁺⁹ ₋₉	1355	22.08 ^{+0.18} _{-0.18}	33.79 ^{+0.03} _{-0.03}	3.82E+37	2.88E+34
2967	58732.955057954	564.2 ^{+0.7} _{-0.7}	6.4 ^{+0.9} _{-0.9}	112 ⁺⁸ ₋₈	1103	15.63 ^{+0.12} _{-0.12}	99.95 ^{+0.91} _{-0.91}	1.07E+38	9.71E+35
2968	58732.955115645	565.1 ^{+0.6} _{-0.6}	5.3 ^{+0.8} _{-0.8}	218 ⁺²⁸ ₋₂₈	1178	15.81 ^{+0.13} _{-0.13}	83.39 ^{+0.76} _{-0.76}	8.93E+37	8.14E+35
2969	58732.955118650	563.1 ^{+1.1} _{-1.1}	8.6 ^{+1.6} _{-1.6}	153 ⁺⁵ ₋₅	1087	12.70 ^{+0.10} _{-0.10}	109.58 ^{+0.16} _{-0.16}	1.24E+38	1.86E+35
2970	58732.955139222	563.2 ^{+1.2} _{-1.2}	4.6 ^{+2.3} _{-2.3}	107 ⁺⁹ ₋₉	1342	5.72 ^{+0.05} _{-0.05}	26.60 ^{+0.11} _{-0.11}	3.01E+37	1.21E+35
2971	58732.955318337	562.7 ^{+1.2} _{-1.2}	5.2 ^{+1.6} _{-1.6}	74 ⁺³⁶ ₋₃₆	1326	7.20 ^{+0.06} _{-0.06}	37.10 ^{+0.10} _{-0.10}	4.19E+37	1.09E+35
2972	58732.955351198	562.9 ^{+1.2} _{-1.2}	10.1 ^{+4.8} _{-4.8}	130 ⁺⁴ ₋₄	1188	4.72 ^{+0.04} _{-0.04}	47.89 ^{+0.18} _{-0.18}	5.41E+37	2.06E+35
2973	58732.955440895	563.3 ^{+0.9} _{-0.9}	3.5 ^{+1.2} _{-1.2}	68 ⁺¹⁹ ₋₁₉	1166	6.65 ^{+0.05} _{-0.05}	23.58 ^{+0.07} _{-0.07}	2.66E+37	7.57E+34
2974	58732.955442249	564.0 ^{+0.9} _{-0.9}	1.8 ^{+0.4} _{-0.4}	110 ⁺⁴ ₋₄	1367	12.65 ^{+0.10} _{-0.10}	23.12 ^{+0.04} _{-0.04}	2.61E+37	4.03E+34
2975	58732.955442374	564.5 ^{+0.7} _{-0.7}	3.8 ^{+0.7} _{-0.7}	98 ⁺²⁸ ₋₂₈	1429	12.78 ^{+0.10} _{-0.10}	48.25 ^{+0.07} _{-0.07}	5.45E+37	8.46E+34
2976	58732.955682860	564.2 ^{+0.9} _{-0.9}	5.2 ^{+0.8} _{-0.8}	99 ⁺²⁶ ₋₂₆	1435	14.04 ^{+0.11} _{-0.11}	72.93 ^{+0.09} _{-0.09}	8.24E+37	1.06E+35
2977	58732.955815412	564.0 ^{+1.1} _{-1.1}	6.2 ^{+2.8} _{-2.8}	81 ⁺²⁴ ₋₂₄	1309	7.07 ^{+0.06} _{-0.06}	43.88 ^{+0.16} _{-0.16}	4.96E+37	1.84E+35
2978	58732.955852997	564.3 ^{+0.6} _{-0.6}	8.0 ^{+0.2} _{-0.2}	205 ⁺¹² ₋₁₂	1147	158.47 ^{+3.61} _{-3.61}	1267.76 ^{+0.79} _{-0.79}	1.36E+39	8.50E+35
2979	58732.955853097	564.3 ^{+0.6} _{-0.6}	7.7 ^{+1.1} _{-1.1}	213 ⁺⁹ ₋₉	1112	50.36 ^{+0.40} _{-0.40}	388.83 ^{+3.51} _{-3.51}	4.16E+38	3.75E+36
2980	58732.955860753	563.4 ^{+0.5} _{-0.5}	5.2 ^{+0.5} _{-0.5}	151 ⁺²⁸ ₋₂₈	1286	16.17 ^{+0.13} _{-0.13}	84.51 ^{+0.06} _{-0.06}	9.55E+37	7.21E+34
2981	58732.955946089	563.1 ^{+1.4} _{-1.4}	2.5 ^{+0.7} _{-0.7}	88 ⁺⁷³ ₋₇₃	1380	7.18 ^{+0.06} _{-0.06}	17.87 ^{+0.04} _{-0.04}	2.02E+37	4.53E+34
2982	58732.956060912	563.2 ^{+1.2} _{-1.2}	3.6 ^{+1.0} _{-1.0}	110 ⁺⁵⁸ ₋₅₈	1267	9.32 ^{+0.07} _{-0.07}	33.67 ^{+0.08} _{-0.08}	3.80E+37	8.81E+34
2983	58732.956065312	562.2 ^{+1.1} _{-1.1}	3.5 ^{+1.3} _{-1.3}	93 ⁺²⁶ ₋₂₆	1376	8.81 ^{+0.07} _{-0.07}	31.09 ^{+0.09} _{-0.09}	3.51E+37	1.03E+35
2984	58732.956183972	562.6 ^{+1.1} _{-1.1}	1.7 ^{+0.3} _{-0.3}	47 ⁺²⁹ ₋₂₉	1376	12.32 ^{+0.10} _{-0.10}	21.47 ^{+0.03} _{-0.03}	2.43E+37	3.51E+34
2985	58732.956314028	563.9 ^{+0.1} _{-0.1}	2.7 ^{+0.1} _{-0.1}	421 ⁺⁵³ ₋₅₃	1286	142.20 ^{+5.80} _{-5.80}	378.25 ^{+0.75} _{-0.75}	4.05E+38	8.07E+35
2986	58732.956314038	563.9 ^{+0.1} _{-0.1}	3.8 ^{+0.5} _{-0.5}	467 ⁺²⁶ ₋₂₆	1258	29.66 ^{+0.23} _{-0.23}	111.92 ^{+1.01} _{-1.01}	1.20E+38	1.08E+36
2987	58732.956411961	562.2 ^{+0.9} _{-0.9}	2.4 ^{+0.3} _{-0.3}	113 ⁺³⁷ ₋₃₇	1401	14.75 ^{+0.12} _{-0.12}	34.78 ^{+0.31} _{-0.31}	3.72E+37	3.35E+35
2988	58732.956579539	562.0 ^{+1.2} _{-1.2}	3.4 ^{+1.2} _{-1.2}	63 ⁺⁸ ₋₈	1395	8.83 ^{+0.07} _{-0.07}	29.88 ^{+0.09} _{-0.09}	3.38E+37	1.01E+35
2989	58732.956599730	565.2 ^{+0.8} _{-0.8}	3.2 ^{+1.6} _{-1.6}	42 ⁺³⁰ ₋₃₀	1425	6.65 ^{+0.05} _{-0.05}	21.59 ^{+0.09} _{-0.09}	2.44E+37	9.61E+34
2990	58732.956600061	562.6 ^{+1.2} _{-1.2}	5.5 ^{+3.2} _{-3.2}	158 ⁺⁹⁶ ₋₉₆	1381	5.49 ^{+0.04} _{-0.04}	30.31 ^{+0.14} _{-0.14}	3.42E+37	1.61E+35
2991	58732.956602358	562.7 ^{+0.8} _{-0.8}	3.5 ^{+0.4} _{-0.4}	183 ⁺²⁷ ₋₂₇	1397	65.14 ^{+5.51} _{-5.51}	228.64 ^{+2.31} _{-2.31}	2.45E+38	2.48E+36
2992	58732.956602397	562.7 ^{+0.8} _{-0.8}	12.5 ^{+1.8} _{-1.8}	47 ⁺³ ₋₃	1375	12.83 ^{+0.10} _{-0.10}	160.58 ^{+1.43} _{-1.43}	1.72E+38	1.53E+36
2993	58732.956602703	563.2 ^{+1.4} _{-1.4}	5.4 ^{+1.8} _{-1.8}	42 ⁺⁴ ₋₄	1394	5.89 ^{+0.05} _{-0.05}	31.67 ^{+0.09} _{-0.09}	3.58E+37	9.82E+34
2994	58732.957003936	563.5 ^{+1.2} _{-1.2}	4.2 ^{+1.1} _{-1.1}	105 ⁺⁹ ₋₉	1373	9.34 ^{+0.08} _{-0.08}	39.45 ^{+0.08} _{-0.08}	4.46E+37	9.22E+34
2995	58732.957151933	563.0 ^{+1.0} _{-1.0}	4.5 ^{+1.7} _{-1.7}	44 ⁺⁴ ₋₄	1325	9.42 ^{+0.07} _{-0.07}	42.05 ^{+0.13} _{-0.13}	4.75E+37	1.41E+35
2996	58732.957263067	563.0 ^{+0.7} _{-0.7}	3.8 ^{+1.1} _{-1.1}	52 ⁺²⁷ ₋₂₇	1387	8.41 ^{+0.07} _{-0.07}	31.94 ^{+0.08} _{-0.08}	3.61E+37	8.68E+34
2997	58732.957445151	563.8 ^{+1.1} _{-1.1}	3.6 ^{+1.8} _{-1.8}	81 ⁺³¹ ₋₃₁	1340	6.13 ^{+0.05} _{-0.05}	21.88 ^{+0.09} _{-0.09}	2.47E+37	9.81E+34
2998	58732.957445326	564.4 ^{+0.6} _{-0.6}	5.2 ^{+1.8} _{-1.8}	60 ⁺⁴ ₋₄	1401	6.47 ^{+0.05} _{-0.05}	33.82 ^{+0.09} _{-0.09}	3.82E+37	1.03E+35
2999	58732.957464771	562.5 ^{+1.3} _{-1.3}	6.2 ^{+1.5} _{-1.5}	63 ⁺³⁶ ₋₃₆	1303	9.94 ^{+0.08} _{-0.08}	61.69 ^{+0.12} _{-0.12}	6.97E+37	1.32E+35
3000	58732.957576862	563.4 ^{+1.2} _{-1.2}	3.6 ^{+1.4} _{-1.4}	56 ⁺²⁹ ₋₂₉	1366	6.87 ^{+0.05} _{-0.05}	24.93 ^{+0.07} _{-0.07}	2.82E+37	8.39E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3001	58732.957604908	563.4 ^{+1.2} _{-1.2}	2.3 ^{+0.3} _{-0.3}	63 ⁺⁴³ ₋₄₃	1410	11.18 ^{+0.09} _{-0.09}	26.21 ^{+0.23} _{-0.23}	2.81E+37	2.50E+35
3002	58732.957917045	562.4 ^{+1.2} _{-1.2}	9.2 ^{+2.9} _{-2.9}	76 ⁺²³ ₋₂₃	1355	8.00 ^{+0.06} _{-0.06}	73.35 ^{+0.18} _{-0.18}	8.29E+37	2.06E+35
3003	58732.958584170	563.5 ^{+1.2} _{-1.2}	4.4 ^{+1.0} _{-1.0}	77 ⁺³ ₋₃	1082	6.79 ^{+0.05} _{-0.05}	29.69 ^{+0.05} _{-0.05}	3.35E+37	6.16E+34
3004	58732.958777671	563.8 ^{+1.4} _{-1.4}	3.9 ^{+1.1} _{-1.1}	97 ⁺⁴ ₋₄	1401	8.18 ^{+0.06} _{-0.06}	31.70 ^{+0.07} _{-0.07}	3.58E+37	8.01E+34
3005	58732.958778108	563.0 ^{+0.3} _{-0.3}	4.0 ^{+0.6} _{-0.6}	124 ⁺⁶⁶ ₋₆₆	1193	16.34 ^{+0.13} _{-0.13}	65.14 ^{+0.07} _{-0.07}	7.36E+37	8.24E+34
3006	58732.958778635	564.1 ^{+1.4} _{-1.4}	3.1 ^{+0.5} _{-0.5}	240 ⁺²⁸ ₋₂₈	1225	17.77 ^{+0.14} _{-0.14}	55.90 ^{+0.49} _{-0.49}	5.98E+37	5.28E+35
3007	58732.958780366	563.6 ^{+1.2} _{-1.2}	3.7 ^{+0.6} _{-0.6}	74 ⁺⁷⁴ ₋₇₄	1085	10.49 ^{+0.08} _{-0.08}	38.36 ^{+0.05} _{-0.05}	4.33E+37	5.82E+34
3008	58732.959288023	562.7 ^{+1.5} _{-1.5}	7.4 ^{+1.2} _{-1.2}	123 ⁺³⁹ ₋₃₉	1333	14.15 ^{+0.11} _{-0.11}	105.38 ^{+0.13} _{-0.13}	1.19E+38	1.48E+35
3009	58732.959322000	564.8 ^{+0.5} _{-0.5}	11.3 ^{+0.8} _{-0.8}	204 ⁺¹⁵ ₋₁₅	1329	56.23 ^{+3.25} _{-3.25}	637.09 ^{+2.57} _{-2.57}	6.82E+38	2.75E+36
3010	58732.959347069	564.6 ^{+0.9} _{-0.9}	3.1 ^{+0.8} _{-0.8}	136 ⁺²⁷ ₋₂₇	1181	10.60 ^{+0.08} _{-0.08}	33.16 ^{+0.06} _{-0.06}	3.75E+37	7.10E+34
3011	58732.959538846	563.2 ^{+1.2} _{-1.2}	7.3 ^{+1.1} _{-1.1}	62 ⁺³⁷ ₋₃₇	1380	7.21 ^{+0.06} _{-0.06}	52.60 ^{+0.47} _{-0.47}	5.63E+37	5.00E+35
3012	58732.959632396	562.8 ^{+0.8} _{-0.8}	4.6 ^{+1.2} _{-1.2}	86 ⁺³³ ₋₃₃	1418	8.20 ^{+0.06} _{-0.06}	37.93 ^{+0.08} _{-0.08}	4.29E+37	8.66E+34
3013	58732.959811209	563.9 ^{+1.2} _{-1.2}	3.7 ^{+0.5} _{-0.5}	121 ⁺³⁴ ₋₃₄	1152	5.19 ^{+0.04} _{-0.04}	19.03 ^{+0.17} _{-0.17}	2.04E+37	1.80E+35
3014	58732.959844764	564.1 ^{+0.6} _{-0.6}	3.2 ^{+0.7} _{-0.7}	81 ⁺³⁸ ₋₃₈	1406	7.85 ^{+0.06} _{-0.06}	25.22 ^{+0.04} _{-0.04}	2.85E+37	4.62E+34
3015	58732.959844875	564.0 ^{+0.5} _{-0.5}	5.8 ^{+0.8} _{-0.8}	177 ⁺³⁹ ₋₃₉	1247	10.06 ^{+0.08} _{-0.08}	58.45 ^{+0.06} _{-0.06}	6.60E+37	6.99E+34
3016	58732.959845314	562.7 ^{+0.8} _{-0.8}	10.4 ^{+2.6} _{-2.6}	79 ⁺⁵ ₋₅	1405	7.61 ^{+0.06} _{-0.06}	78.92 ^{+0.15} _{-0.15}	8.92E+37	1.72E+35
3017	58732.959942425	565.1 ^{+0.3} _{-0.3}	3.0 ^{+0.4} _{-0.4}	240 ⁺³² ₋₃₂	1311	20.32 ^{+0.15} _{-0.15}	61.58 ^{+0.54} _{-0.54}	6.59E+37	5.75E+35
3018	58732.959975148	563.5 ^{+1.1} _{-1.1}	4.0 ^{+0.9} _{-0.9}	198 ⁺⁴⁴ ₋₄₄	1322	13.45 ^{+0.10} _{-0.10}	53.15 ^{+0.09} _{-0.09}	6.01E+37	1.01E+35
3019	58732.959996605	563.2 ^{+0.3} _{-0.3}	2.1 ^{+0.3} _{-0.3}	297 ⁺⁸⁰ ₋₈₀	1315	23.55 ^{+0.19} _{-0.19}	49.84 ^{+0.05} _{-0.05}	5.63E+37	6.04E+34
3020	58732.960227900	565.3 ^{+0.9} _{-0.9}	4.8 ^{+0.3} _{-0.3}	152 ⁺¹⁰ ₋₁₀	1412	81.57 ^{+4.53} _{-4.53}	392.35 ^{+1.40} _{-1.40}	4.20E+38	1.50E+36
3021	58732.960333894	563.0 ^{+1.2} _{-1.2}	6.1 ^{+1.0} _{-1.0}	153 ⁺²⁵ ₋₂₅	1216	16.63 ^{+0.14} _{-0.14}	100.62 ^{+0.14} _{-0.14}	1.14E+38	1.53E+35
3022	58732.960372931	563.5 ^{+1.0} _{-1.0}	3.7 ^{+1.1} _{-1.1}	171 ⁺¹⁰⁶ ₋₁₀₆	1336	9.50 ^{+0.08} _{-0.08}	35.38 ^{+0.09} _{-0.09}	4.00E+37	9.66E+34
3023	58732.960380516	563.4 ^{+0.4} _{-0.4}	6.5 ^{+0.9} _{-0.9}	218 ⁺⁶ ₋₆	1338	11.60 ^{+0.09} _{-0.09}	75.02 ^{+0.66} _{-0.66}	8.03E+37	7.05E+35
3024	58732.960380629	563.8 ^{+0.4} _{-0.4}	4.0 ^{+1.2} _{-1.2}	84 ⁺¹⁵ ₋₁₅	1313	8.68 ^{+0.07} _{-0.07}	34.32 ^{+0.08} _{-0.08}	3.88E+37	9.55E+34
3025	58732.960458080	562.8 ^{+1.1} _{-1.1}	3.1 ^{+0.9} _{-0.9}	39 ⁺⁴ ₋₄	1349	9.93 ^{+0.08} _{-0.08}	30.30 ^{+0.07} _{-0.07}	3.42E+37	8.15E+34
3026	58732.960582041	563.9 ^{+1.1} _{-1.1}	4.1 ^{+0.9} _{-0.9}	66 ⁺²⁴ ₋₂₄	1384	9.39 ^{+0.07} _{-0.07}	38.97 ^{+0.07} _{-0.07}	4.40E+37	8.03E+34
3027	58732.960712326	564.0 ^{+0.8} _{-0.8}	3.8 ^{+0.7} _{-0.7}	149 ⁺⁴² ₋₄₂	1226	15.75 ^{+0.12} _{-0.12}	59.71 ^{+0.09} _{-0.09}	6.75E+37	1.01E+35
3028	58732.960743664	564.4 ^{+0.4} _{-0.4}	1.6 ^{+0.3} _{-0.3}	76 ⁺⁴ ₋₄	1384	18.64 ^{+0.14} _{-0.14}	30.73 ^{+0.04} _{-0.04}	3.47E+37	4.38E+34
3029	58732.960743698	564.4 ^{+0.4} _{-0.4}	3.0 ^{+0.8} _{-0.8}	59 ⁺¹⁶ ₋₁₆	1282	11.24 ^{+0.09} _{-0.09}	33.63 ^{+0.07} _{-0.07}	3.80E+37	7.40E+34
3030	58732.960744866	562.9 ^{+1.2} _{-1.2}	16.6 ^{+5.4} _{-5.4}	171 ⁺⁵⁷ ₋₅₇	1360	8.25 ^{+0.06} _{-0.06}	137.16 ^{+0.34} _{-0.34}	1.55E+38	3.89E+35
3031	58732.960745416	564.8 ^{+0.8} _{-0.8}	4.0 ^{+1.4} _{-1.4}	87 ⁺⁴⁴ ₋₄₄	1210	9.06 ^{+0.07} _{-0.07}	35.80 ^{+0.10} _{-0.10}	4.05E+37	1.09E+35
3032	58732.960841852	563.4 ^{+1.4} _{-1.4}	4.0 ^{+1.0} _{-1.0}	67 ⁺⁴¹ ₋₄₁	1395	9.51 ^{+0.08} _{-0.08}	37.82 ^{+0.08} _{-0.08}	4.27E+37	9.37E+34
3033	58732.960842837	563.2 ^{+1.1} _{-1.1}	7.2 ^{+2.0} _{-2.0}	79 ⁺¹⁴ ₋₁₄	1271	9.64 ^{+0.08} _{-0.08}	69.71 ^{+0.16} _{-0.16}	7.88E+37	1.82E+35
3034	58732.960873518	562.2 ^{+1.1} _{-1.1}	4.4 ^{+1.2} _{-1.2}	109 ⁺³⁷ ₋₃₇	1396	11.20 ^{+0.09} _{-0.09}	49.03 ^{+0.10} _{-0.10}	5.54E+37	1.17E+35
3035	58732.960873994	564.4 ^{+1.0} _{-1.0}	7.8 ^{+1.9} _{-1.9}	150 ⁺³⁵ ₋₃₅	1350	9.30 ^{+0.07} _{-0.07}	72.75 ^{+0.14} _{-0.14}	8.22E+37	1.54E+35
3036	58732.960927508	563.4 ^{+1.3} _{-1.3}	3.5 ^{+0.5} _{-0.5}	162 ⁺¹¹ ₋₁₁	1211	10.96 ^{+0.08} _{-0.08}	38.72 ^{+0.34} _{-0.34}	4.14E+37	3.64E+35
3037	58732.961043438	561.5 ^{+0.7} _{-0.7}	8.2 ^{+6.3} _{-6.3}	179 ⁺⁷⁰ ₋₇₀	1135	4.37 ^{+0.03} _{-0.03}	35.66 ^{+0.21} _{-0.21}	4.03E+37	2.42E+35
3038	58732.961043773	563.4 ^{+1.4} _{-1.4}	2.6 ^{+0.7} _{-0.7}	162 ⁺¹⁶⁴ ₋₁₆₄	1352	9.80 ^{+0.07} _{-0.07}	25.58 ^{+0.05} _{-0.05}	2.89E+37	5.87E+34
3039	58732.961044170	564.3 ^{+0.5} _{-0.5}	2.4 ^{+1.2} _{-1.2}	166 ⁺⁸⁸ ₋₈₈	1190	6.44 ^{+0.05} _{-0.05}	15.65 ^{+0.06} _{-0.06}	1.77E+37	6.75E+34
3040	58732.961250144	562.8 ^{+1.4} _{-1.4}	3.3 ^{+1.1} _{-1.1}	268 ⁺¹⁰⁹ ₋₁₀₉	1189	7.51 ^{+0.06} _{-0.06}	24.98 ^{+0.06} _{-0.06}	2.82E+37	6.89E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3041	58732.961251659	562.5 ^{+1.1} _{-1.1}	4.4 ^{+2.0} _{-2.0}	45 ⁺²¹ ₋₂₁	1100	6.55 ^{+0.05} _{-0.05}	28.63 ^{+0.10} _{-0.10}	3.24E+37	1.10E+35
3042	58732.961350204	563.3 ^{+1.3} _{-1.3}	3.0 ^{+1.3} _{-1.3}	51 ⁺²⁶ ₋₂₆	1384	7.96 ^{+0.06} _{-0.06}	23.94 ^{+0.08} _{-0.08}	2.71E+37	9.30E+34
3043	58732.961469952	563.8 ^{+1.1} _{-1.1}	2.5 ^{+0.8} _{-0.8}	108 ⁺⁶⁵ ₋₆₅	1228	6.75 ^{+0.05} _{-0.05}	16.82 ^{+0.04} _{-0.04}	1.90E+37	4.41E+34
3044	58732.961470061	564.1 ^{+1.2} _{-1.2}	4.8 ^{+1.4} _{-1.4}	112 ⁺⁴⁰ ₋₄₀	1374	10.22 ^{+0.08} _{-0.08}	49.26 ^{+0.11} _{-0.11}	5.57E+37	1.19E+35
3045	58732.961586800	564.0 ^{+1.1} _{-1.1}	8.5 ^{+1.7} _{-1.7}	62 ⁺¹⁵ ₋₁₅	1132	12.94 ^{+0.10} _{-0.10}	110.08 ^{+0.17} _{-0.17}	1.24E+38	1.89E+35
3046	58732.961994991	562.7 ^{+1.2} _{-1.2}	1.7 ^{+0.4} _{-0.4}	78 ⁺⁵⁹ ₋₅₉	1126	13.46 ^{+0.11} _{-0.11}	23.11 ^{+0.04} _{-0.04}	2.61E+37	4.41E+34
3047	58732.962036029	563.2 ^{+1.4} _{-1.4}	1.8 ^{+0.6} _{-0.6}	268 ⁺²⁷ ₋₂₇	1274	8.01 ^{+0.07} _{-0.07}	14.57 ^{+0.04} _{-0.04}	1.65E+37	4.64E+34
3048	58732.962108361	564.6 ^{+0.7} _{-0.7}	3.2 ^{+0.5} _{-0.5}	299 ⁺²¹ ₋₂₁	1270	19.71 ^{+0.15} _{-0.15}	63.51 ^{+0.07} _{-0.07}	7.18E+37	7.95E+34
3049	58732.962294621	563.4 ^{+1.2} _{-1.2}	1.9 ^{+0.8} _{-0.8}	70 ⁺⁴ ₋₄	1400	5.59 ^{+0.04} _{-0.04}	10.84 ^{+0.03} _{-0.03}	1.23E+37	3.67E+34
3050	58732.962295194	563.4 ^{+1.4} _{-1.4}	3.2 ^{+0.9} _{-0.9}	83 ⁺⁸ ₋₈	1349	9.91 ^{+0.07} _{-0.07}	32.10 ^{+0.07} _{-0.07}	3.63E+37	7.66E+34
3051	58732.962545222	563.9 ^{+1.4} _{-1.4}	4.6 ^{+1.7} _{-1.7}	74 ⁺²⁴ ₋₂₄	1370	9.06 ^{+0.07} _{-0.07}	41.59 ^{+0.13} _{-0.13}	4.70E+37	1.42E+35
3052	58732.962864725	565.3 ^{+0.3} _{-0.3}	3.1 ^{+0.4} _{-0.4}	84 ⁺²⁷ ₋₂₇	1372	15.80 ^{+0.12} _{-0.12}	49.30 ^{+0.05} _{-0.05}	5.57E+37	5.41E+34
3053	58732.962877294	564.7 ^{+0.9} _{-0.9}	4.1 ^{+0.6} _{-0.6}	222 ⁺²⁷ ₋₂₇	1239	394.24 ^{+2.96} _{-2.96}	1633.71 ^{+14.06} _{-14.06}	1.75E+39	1.50E+37
3054	58732.963054509	564.9 ^{+0.9} _{-0.9}	2.8 ^{+0.4} _{-0.4}	97 ⁺³³ ₋₃₃	1368	15.45 ^{+0.12} _{-0.12}	43.72 ^{+0.38} _{-0.38}	4.68E+37	4.02E+35
3055	58732.963102209	563.7 ^{+1.3} _{-1.3}	2.3 ^{+0.3} _{-0.3}	67 ⁺⁵ ₋₅	1426	9.94 ^{+0.07} _{-0.07}	22.91 ^{+0.20} _{-0.20}	2.45E+37	2.12E+35
3056	58732.963153688	564.3 ^{+0.4} _{-0.4}	4.2 ^{+0.5} _{-0.5}	263 ⁺³⁷ ₋₃₇	1285	50.14 ^{+5.23} _{-5.23}	209.59 ^{+2.67} _{-2.67}	2.24E+38	2.86E+36
3057	58732.963202966	564.1 ^{+0.8} _{-0.8}	3.2 ^{+0.9} _{-0.9}	47 ⁺³ ₋₃	1105	6.59 ^{+0.05} _{-0.05}	20.80 ^{+0.05} _{-0.05}	2.35E+37	5.33E+34
3058	58732.963614601	563.3 ^{+1.1} _{-1.1}	3.9 ^{+1.4} _{-1.4}	262 ⁺⁵⁶ ₋₅₆	1197	8.39 ^{+0.07} _{-0.07}	32.61 ^{+0.09} _{-0.09}	3.68E+37	1.06E+35
3059	58732.963651983	564.0 ^{+0.7} _{-0.7}	6.3 ^{+0.9} _{-0.9}	176 ⁺³² ₋₃₂	1232	12.09 ^{+0.09} _{-0.09}	76.37 ^{+0.66} _{-0.66}	8.18E+37	7.04E+35
3060	58732.963966917	564.9 ^{+1.1} _{-1.1}	3.9 ^{+0.6} _{-0.6}	116 ⁺³³ ₋₃₃	1303	15.51 ^{+0.12} _{-0.12}	61.21 ^{+0.52} _{-0.52}	6.55E+37	5.61E+35
3061	58732.963968000	562.8 ^{+1.3} _{-1.3}	6.7 ^{+2.3} _{-2.3}	98 ⁺⁵⁴ ₋₅₄	1323	11.00 ^{+0.08} _{-0.08}	73.87 ^{+0.19} _{-0.19}	8.35E+37	2.19E+35
3062	58732.963968139	563.1 ^{+1.2} _{-1.2}	2.0 ^{+1.5} _{-1.5}	70 ⁺⁴ ₋₄	1381	6.11 ^{+0.05} _{-0.05}	12.51 ^{+0.07} _{-0.07}	1.41E+37	7.88E+34
3063	58732.963968427	563.1 ^{+1.3} _{-1.3}	2.0 ^{+0.8} _{-0.8}	58 ⁺⁴ ₋₄	1327	9.77 ^{+0.07} _{-0.07}	19.42 ^{+0.06} _{-0.06}	2.19E+37	6.39E+34
3064	58732.963969902	563.4 ^{+1.2} _{-1.2}	8.3 ^{+1.2} _{-1.2}	122 ⁺¹³ ₋₁₃	1186	10.43 ^{+0.08} _{-0.08}	86.56 ^{+0.74} _{-0.74}	9.27E+37	7.93E+35
3065	58732.963987279	563.5 ^{+1.3} _{-1.3}	4.4 ^{+1.9} _{-1.9}	67 ⁺³⁸ ₋₃₈	1373	8.60 ^{+0.07} _{-0.07}	38.00 ^{+0.13} _{-0.13}	4.29E+37	1.48E+35
3066	58732.964144832	563.4 ^{+1.1} _{-1.1}	2.9 ^{+0.8} _{-0.8}	63 ⁺¹⁸ ₋₁₈	1361	10.50 ^{+0.08} _{-0.08}	30.00 ^{+0.06} _{-0.06}	3.39E+37	6.93E+34
3067	58732.964181002	563.7 ^{+1.4} _{-1.4}	4.8 ^{+1.2} _{-1.2}	148 ⁺³⁴ ₋₃₄	1334	13.79 ^{+0.11} _{-0.11}	65.66 ^{+0.13} _{-0.13}	7.42E+37	1.49E+35
3068	58732.964181481	563.2 ^{+1.2} _{-1.2}	3.8 ^{+0.5} _{-0.5}	91 ⁺⁵ ₋₅	1405	13.49 ^{+0.10} _{-0.10}	51.03 ^{+0.05} _{-0.05}	5.77E+37	6.10E+34
3069	58732.964217727	563.6 ^{+1.3} _{-1.3}	1.5 ^{+0.4} _{-0.4}	107 ⁺¹³ ₋₁₃	1360	9.54 ^{+0.07} _{-0.07}	14.51 ^{+0.03} _{-0.03}	1.64E+37	3.29E+34
3070	58732.964418154	564.6 ^{+0.8} _{-0.8}	2.7 ^{+0.8} _{-0.8}	93 ⁺⁴⁴ ₋₄₄	1323	13.61 ^{+0.11} _{-0.11}	37.13 ^{+0.09} _{-0.09}	4.20E+37	9.71E+34
3071	58732.964421251	563.4 ^{+1.0} _{-1.0}	5.9 ^{+2.6} _{-2.6}	130 ⁺⁵ ₋₅	1382	6.41 ^{+0.05} _{-0.05}	38.01 ^{+0.12} _{-0.12}	4.29E+37	1.40E+35
3072	58732.964427545	562.8 ^{+1.2} _{-1.2}	7.7 ^{+2.5} _{-2.5}	295 ⁺¹⁰² ₋₁₀₂	1248	7.85 ^{+0.06} _{-0.06}	60.80 ^{+0.16} _{-0.16}	6.87E+37	1.79E+35
3073	58732.964674957	563.5 ^{+1.3} _{-1.3}	2.1 ^{+0.9} _{-0.9}	42 ⁺⁴ ₋₄	1130	5.14 ^{+0.04} _{-0.04}	10.57 ^{+0.04} _{-0.04}	1.19E+37	4.08E+34
3074	58732.964675239	563.2 ^{+1.2} _{-1.2}	8.6 ^{+1.9} _{-1.9}	67 ⁺³⁵ ₋₃₅	1101	11.24 ^{+0.09} _{-0.09}	96.40 ^{+0.18} _{-0.18}	1.09E+38	2.00E+35
3075	58732.964865841	563.3 ^{+1.4} _{-1.4}	4.2 ^{+0.6} _{-0.6}	95 ⁺³⁹ ₋₃₉	1388	9.14 ^{+0.07} _{-0.07}	38.20 ^{+0.33} _{-0.33}	4.09E+37	3.48E+35
3076	58732.965119752	562.5 ^{+0.9} _{-0.9}	3.0 ^{+0.7} _{-0.7}	116 ⁺⁸ ₋₈	1199	8.06 ^{+0.06} _{-0.06}	24.10 ^{+0.04} _{-0.04}	2.72E+37	4.60E+34
3077	58732.965151268	563.9 ^{+1.0} _{-1.0}	3.7 ^{+0.5} _{-0.5}	87 ⁺³⁶ ₋₃₆	1137	17.34 ^{+0.13} _{-0.13}	64.54 ^{+0.55} _{-0.55}	6.91E+37	5.88E+35
3078	58732.965151481	563.7 ^{+0.4} _{-0.4}	3.4 ^{+1.4} _{-1.4}	182 ⁺⁴ ₋₄	1217	10.84 ^{+0.08} _{-0.08}	37.04 ^{+0.11} _{-0.11}	4.19E+37	1.29E+35
3079	58732.965151744	562.6 ^{+1.3} _{-1.3}	3.1 ^{+0.9} _{-0.9}	184 ⁺⁸⁸ ₋₈₈	1257	8.09 ^{+0.06} _{-0.06}	24.75 ^{+0.05} _{-0.05}	2.80E+37	6.07E+34
3080	58732.965153139	563.6 ^{+1.2} _{-1.2}	1.5 ^{+0.9} _{-0.9}	94 ⁺³¹ ₋₃₁	1411	3.98 ^{+0.03} _{-0.03}	6.09 ^{+0.03} _{-0.03}	6.88E+36	3.16E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3081	58732.965302665	562.6 ^{+0.9} _{-0.9}	2.7 ^{+0.7} _{-0.7}	55 ⁺²¹ ₋₂₁	1369	9.67 ^{+0.07} _{-0.07}	25.65 ^{+0.05} _{-0.05}	2.90E+37	5.93E+34
3082	58732.965373596	563.2 ^{+1.2} _{-1.2}	5.7 ^{+1.2} _{-1.2}	77 ⁺³⁴ ₋₃₄	1410	10.77 ^{+0.08} _{-0.08}	61.16 ^{+0.10} _{-0.10}	6.91E+37	1.10E+35
3083	58732.965373623	563.6 ^{+1.3} _{-1.3}	5.1 ^{+1.0} _{-1.0}	113 ⁺¹⁴ ₋₁₄	1328	10.81 ^{+0.08} _{-0.08}	54.86 ^{+0.08} _{-0.08}	6.20E+37	8.96E+34
3084	58732.965373814	564.9 ^{+0.5} _{-0.5}	1.9 ^{+0.2} _{-0.2}	94 ⁺³⁷ ₋₃₇	1277	15.28 ^{+0.12} _{-0.12}	28.84 ^{+0.03} _{-0.03}	3.26E+37	2.94E+34
3085	58732.965374363	564.0 ^{+1.0} _{-1.0}	9.1 ^{+3.7} _{-3.7}	39 ⁺⁵ ₋₅	1430	5.41 ^{+0.04} _{-0.04}	49.14 ^{+0.15} _{-0.15}	5.55E+37	1.72E+35
3086	58732.965471226	563.8 ^{+1.2} _{-1.2}	4.3 ^{+0.8} _{-0.8}	58 ⁺¹⁶ ₋₁₆	1384	13.53 ^{+0.10} _{-0.10}	57.63 ^{+0.09} _{-0.09}	6.51E+37	9.81E+34
3087	58732.965517323	564.9 ^{+0.5} _{-0.5}	1.9 ^{+0.7} _{-0.7}	281 ⁺³ ₋₃	1243	8.90 ^{+0.07} _{-0.07}	17.18 ^{+0.05} _{-0.05}	1.94E+37	5.32E+34
3088	58732.966050040	563.7 ^{+1.2} _{-1.2}	4.6 ^{+1.2} _{-1.2}	79 ⁺³⁷ ₋₃₇	1308	8.18 ^{+0.06} _{-0.06}	37.82 ^{+0.08} _{-0.08}	4.27E+37	8.59E+34
3089	58732.966051122	564.3 ^{+1.1} _{-1.1}	4.1 ^{+0.4} _{-0.4}	211 ⁺¹⁰ ₋₁₀	1337	84.25 ^{+6.53} _{-6.53}	342.05 ^{+2.42} _{-2.42}	3.66E+38	2.59E+36
3090	58732.966132864	563.6 ^{+0.5} _{-0.5}	2.3 ^{+0.3} _{-0.3}	458 ⁺¹⁵ ₋₁₅	1240	67.67 ^{+6.75} _{-6.75}	154.96 ^{+1.82} _{-1.82}	1.66E+38	1.95E+36
3091	58732.966417789	564.1 ^{+0.9} _{-0.9}	1.5 ^{+0.4} _{-0.4}	49 ⁺⁵ ₋₅	1423	8.35 ^{+0.07} _{-0.07}	12.49 ^{+0.03} _{-0.03}	1.41E+37	3.04E+34
3092	58732.966455525	562.7 ^{+1.3} _{-1.3}	3.0 ^{+0.7} _{-0.7}	111 ⁺¹⁰⁹ ₋₁₀₉	1172	9.57 ^{+0.08} _{-0.08}	28.63 ^{+0.05} _{-0.05}	3.24E+37	6.02E+34
3093	58732.966531489	563.8 ^{+1.1} _{-1.1}	3.2 ^{+1.6} _{-1.6}	95 ⁺⁵ ₋₅	1363	3.93 ^{+0.03} _{-0.03}	12.39 ^{+0.05} _{-0.05}	1.40E+37	5.27E+34
3094	58732.966761978	563.3 ^{+1.2} _{-1.2}	9.5 ^{+3.7} _{-3.7}	100 ⁺²⁶ ₋₂₆	1281	5.70 ^{+0.04} _{-0.04}	54.13 ^{+0.16} _{-0.16}	6.12E+37	1.86E+35
3095	58732.966892884	563.3 ^{+1.2} _{-1.2}	4.0 ^{+0.6} _{-0.6}	190 ⁺²⁹ ₋₂₉	1127	9.96 ^{+0.07} _{-0.07}	39.80 ^{+0.34} _{-0.34}	4.26E+37	3.62E+35
3096	58732.966930871	563.2 ^{+1.3} _{-1.3}	2.4 ^{+0.8} _{-0.8}	39 ⁺⁴ ₋₄	1340	6.45 ^{+0.05} _{-0.05}	15.17 ^{+0.04} _{-0.04}	1.71E+37	4.68E+34
3097	58732.966952221	563.4 ^{+1.3} _{-1.3}	5.4 ^{+1.7} _{-1.7}	113 ⁺¹⁶ ₋₁₆	1189	8.46 ^{+0.06} _{-0.06}	45.38 ^{+0.11} _{-0.11}	5.13E+37	1.24E+35
3098	58732.967296695	563.3 ^{+1.2} _{-1.2}	3.8 ^{+2.2} _{-2.2}	61 ⁺⁴ ₋₄	1408	6.34 ^{+0.05} _{-0.05}	23.82 ^{+0.10} _{-0.10}	2.69E+37	1.17E+35
3099	58732.967297052	563.1 ^{+1.2} _{-1.2}	2.2 ^{+1.3} _{-1.3}	85 ⁺⁵⁸ ₋₅₈	1232	5.05 ^{+0.04} _{-0.04}	11.28 ^{+0.05} _{-0.05}	1.27E+37	5.75E+34
3100	58732.967297987	564.1 ^{+1.1} _{-1.1}	3.0 ^{+0.5} _{-0.5}	261 ⁺⁴⁴ ₋₄₄	1356	18.91 ^{+0.15} _{-0.15}	56.73 ^{+0.07} _{-0.07}	6.41E+37	7.92E+34
3101	58732.967298588	563.1 ^{+1.4} _{-1.4}	16.3 ^{+4.2} _{-4.2}	158 ⁺²⁰ ₋₂₀	1397	9.39 ^{+0.07} _{-0.07}	153.32 ^{+0.30} _{-0.30}	1.73E+38	3.39E+35
3102	58732.967299320	564.3 ^{+0.8} _{-0.8}	3.8 ^{+0.3} _{-0.3}	65 ⁺²⁹ ₋₂₉	1421	80.11 ^{+5.09} _{-5.09}	306.02 ^{+1.43} _{-1.43}	3.28E+38	1.53E+36
3103	58732.967299322	564.3 ^{+0.8} _{-0.8}	4.1 ^{+0.6} _{-0.6}	156 ⁺⁹ ₋₉	1386	21.67 ^{+0.16} _{-0.16}	88.05 ^{+0.74} _{-0.74}	9.43E+37	7.96E+35
3104	58732.967483773	563.2 ^{+1.4} _{-1.4}	4.5 ^{+0.5} _{-0.5}	91 ⁺⁴ ₋₄	1391	108.82 ^{+8.52} _{-8.52}	485.34 ^{+4.43} _{-4.43}	5.20E+38	4.74E+36
3105	58732.967494039	563.3 ^{+1.2} _{-1.2}	3.3 ^{+0.5} _{-0.5}	116 ⁺⁴ ₋₄	1287	10.58 ^{+0.08} _{-0.08}	35.06 ^{+0.30} _{-0.30}	3.75E+37	3.17E+35
3106	58732.967591478	563.2 ^{+1.3} _{-1.3}	3.7 ^{+2.2} _{-2.2}	81 ⁺¹⁴¹ ₋₁₄₁	1191	5.77 ^{+0.04} _{-0.04}	21.27 ^{+0.09} _{-0.09}	2.40E+37	1.07E+35
3107	58732.967591764	563.0 ^{+1.3} _{-1.3}	7.4 ^{+3.5} _{-3.5}	91 ⁺⁴ ₋₄	1347	6.43 ^{+0.05} _{-0.05}	47.78 ^{+0.17} _{-0.17}	5.40E+37	1.89E+35
3108	58732.967721705	566.1 ^{+0.4} _{-0.4}	3.8 ^{+0.6} _{-0.6}	279 ⁺²⁴ ₋₂₄	1300	26.73 ^{+0.20} _{-0.20}	102.76 ^{+0.86} _{-0.86}	1.10E+38	9.23E+35
3109	58732.967721707	566.1 ^{+0.4} _{-0.4}	4.1 ^{+0.2} _{-0.2}	282 ⁺¹² ₋₁₂	1170	102.10 ^{+4.83} _{-4.83}	419.63 ^{+1.11} _{-1.11}	4.49E+38	1.19E+36
3110	58732.967861752	563.0 ^{+1.2} _{-1.2}	4.6 ^{+0.7} _{-0.7}	192 ⁺¹⁶ ₋₁₆	1393	11.91 ^{+0.09} _{-0.09}	54.85 ^{+0.46} _{-0.46}	5.87E+37	4.91E+35
3111	58732.967990886	563.0 ^{+0.0} _{-0.0}	2.9 ^{+0.1} _{-0.1}	458 ⁺⁵⁸ ₋₅₈	1270	279.16 ^{+7.21} _{-7.21}	806.77 ^{+0.65} _{-0.65}	8.64E+38	6.95E+35
3112	58732.967990902	563.0 ^{+0.0} _{-0.0}	8.6 ^{+1.2} _{-1.2}	497 ⁺¹ ₋₁	1251	131.12 ^{+0.96} _{-0.96}	1130.77 ^{+9.49} _{-9.49}	1.21E+39	1.02E+37
3113	58732.968296618	563.4 ^{+1.2} _{-1.2}	3.7 ^{+1.3} _{-1.3}	86 ⁺³ ₋₃	1371	9.86 ^{+0.07} _{-0.07}	36.58 ^{+0.09} _{-0.09}	4.13E+37	1.05E+35
3114	58732.968561216	562.7 ^{+1.2} _{-1.2}	2.2 ^{+0.8} _{-0.8}	290 ⁺³² ₋₃₂	1233	10.57 ^{+0.08} _{-0.08}	23.46 ^{+0.06} _{-0.06}	2.65E+37	7.32E+34
3115	58732.968645940	563.5 ^{+1.1} _{-1.1}	3.5 ^{+2.0} _{-2.0}	60 ⁺¹⁴ ₋₁₄	1098	8.28 ^{+0.06} _{-0.06}	28.87 ^{+0.12} _{-0.12}	3.26E+37	1.39E+35
3116	58732.968892731	563.1 ^{+1.3} _{-1.3}	5.5 ^{+3.0} _{-3.0}	86 ⁺⁶ ₋₆	1370	7.95 ^{+0.06} _{-0.06}	44.05 ^{+0.17} _{-0.17}	4.97E+37	1.95E+35
3117	58732.968893195	563.2 ^{+1.3} _{-1.3}	2.7 ^{+2.7} _{-2.7}	63 ⁺⁴ ₋₄	1321	6.66 ^{+0.05} _{-0.05}	18.24 ^{+0.14} _{-0.14}	2.06E+37	1.58E+35
3118	58732.969042629	563.7 ^{+1.4} _{-1.4}	1.4 ^{+0.6} _{-0.6}	93 ⁺²² ₋₂₂	1391	11.38 ^{+0.09} _{-0.09}	15.97 ^{+0.05} _{-0.05}	1.80E+37	5.73E+34
3119	58732.969046061	563.1 ^{+1.2} _{-1.2}	3.3 ^{+1.3} _{-1.3}	105 ⁺¹² ₋₁₂	1136	8.73 ^{+0.07} _{-0.07}	29.09 ^{+0.08} _{-0.08}	3.29E+37	9.53E+34
3120	58732.969318875	563.9 ^{+0.9} _{-0.9}	3.7 ^{+1.0} _{-1.0}	72 ⁺⁵¹ ₋₅₁	1332	14.22 ^{+0.11} _{-0.11}	52.69 ^{+0.11} _{-0.11}	5.95E+37	1.24E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3121	58732.969524297	563.1 ^{+0.0} _{-0.0}	4.4 ^{+0.2} _{-0.2}	331 ⁺¹⁴ ₋₁₄	1168	126.69 ^{+5.21} _{-5.21}	553.64 ^{+1.09} _{-1.09}	5.93E+38	1.17E+36
3122	58732.969524324	563.1 ^{+0.0} _{-0.0}	4.5 ^{+0.6} _{-0.6}	492 ⁺⁵ ₋₅	1254	67.29 ^{+0.49} _{-0.49}	301.13 ^{+2.53} _{-2.53}	3.22E+38	2.71E+36
3123	58732.969621994	563.8 ^{+1.3} _{-1.3}	3.3 ^{+0.5} _{-0.5}	92 ⁺⁴ ₋₄	1398	7.59 ^{+0.06} _{-0.06}	24.70 ^{+0.21} _{-0.21}	2.64E+37	2.23E+35
3124	58732.969645753	562.8 ^{+1.3} _{-1.3}	5.2 ^{+1.9} _{-1.9}	55 ⁺³¹ ₋₃₁	1401	10.70 ^{+0.08} _{-0.08}	56.00 ^{+0.16} _{-0.16}	6.33E+37	1.76E+35
3125	58732.969853571	563.8 ^{+1.1} _{-1.1}	3.7 ^{+2.2} _{-2.2}	62 ⁺²¹ ₋₂₁	1416	6.18 ^{+0.05} _{-0.05}	23.06 ^{+0.10} _{-0.10}	2.61E+37	1.17E+35
3126	58732.969853732	564.4 ^{+1.0} _{-1.0}	2.2 ^{+0.9} _{-0.9}	130 ⁺²⁰ ₋₂₀	1421	8.21 ^{+0.06} _{-0.06}	18.43 ^{+0.06} _{-0.06}	2.08E+37	6.70E+34
3127	58732.969864500	562.8 ^{+1.2} _{-1.2}	7.8 ^{+5.9} _{-5.9}	55 ⁺³ ₋₃	1415	6.23 ^{+0.05} _{-0.05}	48.38 ^{+0.29} _{-0.29}	5.46E+37	3.24E+35
3128	58732.969865009	562.8 ^{+1.2} _{-1.2}	6.6 ^{+5.9} _{-5.9}	67 ⁺⁵³ ₋₅₃	1136	6.23 ^{+0.05} _{-0.05}	41.12 ^{+0.29} _{-0.29}	4.65E+37	3.25E+35
3129	58732.970179592	563.7 ^{+1.3} _{-1.3}	6.3 ^{+2.5} _{-2.5}	75 ⁺³⁸ ₋₃₈	1336	7.63 ^{+0.06} _{-0.06}	47.75 ^{+0.14} _{-0.14}	5.40E+37	1.61E+35
3130	58732.970558058	564.2 ^{+0.9} _{-0.9}	10.2 ^{+3.1} _{-3.1}	223 ⁺³⁷ ₋₃₇	1298	10.24 ^{+0.08} _{-0.08}	104.08 ^{+0.23} _{-0.23}	1.18E+38	2.65E+35
3131	58732.970558202	564.4 ^{+1.1} _{-1.1}	4.3 ^{+1.7} _{-1.7}	63 ⁺³³ ₋₃₃	1338	11.94 ^{+0.09} _{-0.09}	50.94 ^{+0.15} _{-0.15}	5.76E+37	1.67E+35
3132	58732.970558413	564.1 ^{+1.0} _{-1.0}	4.2 ^{+2.5} _{-2.5}	193 ⁺⁴ ₋₄	1208	7.84 ^{+0.06} _{-0.06}	33.27 ^{+0.15} _{-0.15}	3.76E+37	1.65E+35
3133	58732.970558656	563.3 ^{+0.9} _{-0.9}	3.2 ^{+1.0} _{-1.0}	57 ⁺³ ₋₃	1340	7.67 ^{+0.06} _{-0.06}	24.71 ^{+0.06} _{-0.06}	2.79E+37	6.76E+34
3134	58732.970559162	562.7 ^{+1.3} _{-1.3}	8.8 ^{+3.6} _{-3.6}	65 ⁺²⁴ ₋₂₄	1148	7.87 ^{+0.06} _{-0.06}	68.85 ^{+0.21} _{-0.21}	7.78E+37	2.36E+35
3135	58732.970606701	563.8 ^{+1.2} _{-1.2}	3.6 ^{+1.1} _{-1.1}	95 ⁺²⁸ ₋₂₈	1150	7.26 ^{+0.05} _{-0.05}	26.23 ^{+0.06} _{-0.06}	2.96E+37	6.91E+34
3136	58732.970651981	563.4 ^{+1.2} _{-1.2}	4.1 ^{+1.0} _{-1.0}	117 ⁺³¹ ₋₃₁	1371	11.47 ^{+0.09} _{-0.09}	46.89 ^{+0.08} _{-0.08}	5.30E+37	9.41E+34
3137	58732.970679068	563.1 ^{+1.3} _{-1.3}	6.6 ^{+2.2} _{-2.2}	124 ⁺⁶⁷ ₋₆₇	1207	9.75 ^{+0.07} _{-0.07}	64.37 ^{+0.16} _{-0.16}	7.27E+37	1.80E+35
3138	58732.970737119	563.3 ^{+1.3} _{-1.3}	2.8 ^{+0.9} _{-0.9}	327 ⁺¹⁷ ₋₁₇	1236	10.41 ^{+0.08} _{-0.08}	29.05 ^{+0.07} _{-0.07}	3.28E+37	7.95E+34
3139	58732.970737274	563.1 ^{+1.3} _{-1.3}	5.5 ^{+1.7} _{-1.7}	153 ⁺⁹⁵ ₋₉₅	1272	9.10 ^{+0.07} _{-0.07}	49.95 ^{+0.12} _{-0.12}	5.64E+37	1.34E+35
3140	58732.970918847	562.9 ^{+0.0} _{-0.0}	4.1 ^{+0.1} _{-0.1}	497 ⁺¹ ₋₁	1251	727.59 ^{+12.80} _{-12.80}	2990.39 ^{+1.02} _{-1.02}	3.20E+39	1.10E+36
3141	58732.970918857	562.9 ^{+0.0} _{-0.0}	9.7 ^{+1.4} _{-1.4}	498 ⁺¹ ₋₁	1250	353.03 ^{+2.57} _{-2.57}	3419.39 ^{+28.48} _{-28.48}	3.66E+39	3.05E+37
3142	58732.970937727	562.9 ^{+1.0} _{-1.0}	4.3 ^{+1.2} _{-1.2}	141 ⁺³⁴ ₋₃₄	1204	10.45 ^{+0.08} _{-0.08}	45.22 ^{+0.10} _{-0.10}	5.11E+37	1.09E+35
3143	58732.970968119	563.6 ^{+0.7} _{-0.7}	4.9 ^{+2.6} _{-2.6}	111 ⁺³⁵ ₋₃₅	1367	7.84 ^{+0.06} _{-0.06}	38.79 ^{+0.17} _{-0.17}	4.38E+37	1.91E+35
3144	58732.971001725	562.6 ^{+1.2} _{-1.2}	4.3 ^{+0.6} _{-0.6}	70 ⁺¹³ ₋₁₃	1375	5.79 ^{+0.04} _{-0.04}	24.82 ^{+0.21} _{-0.21}	2.66E+37	2.20E+35
3145	58732.971321183	561.6 ^{+1.1} _{-1.1}	3.0 ^{+1.0} _{-1.0}	87 ⁺⁴⁰ ₋₄₀	1124	7.96 ^{+0.06} _{-0.06}	23.76 ^{+0.06} _{-0.06}	2.68E+37	6.53E+34
3146	58732.971408404	564.2 ^{+0.9} _{-0.9}	4.8 ^{+1.4} _{-1.4}	103 ⁺²² ₋₂₂	1425	9.64 ^{+0.07} _{-0.07}	45.99 ^{+0.10} _{-0.10}	5.20E+37	1.13E+35
3147	58732.971449760	565.3 ^{+0.3} _{-0.3}	2.5 ^{+0.3} _{-0.3}	58 ⁺⁴¹ ₋₄₁	1340	20.77 ^{+0.15} _{-0.15}	51.56 ^{+0.04} _{-0.04}	5.83E+37	4.77E+34
3148	58732.971620394	561.9 ^{+0.6} _{-0.6}	3.7 ^{+1.4} _{-1.4}	59 ⁺²² ₋₂₂	1135	7.96 ^{+0.06} _{-0.06}	29.08 ^{+0.08} _{-0.08}	3.29E+37	9.10E+34
3149	58732.972080958	563.2 ^{+0.6} _{-0.6}	8.8 ^{+1.7} _{-1.7}	216 ⁺⁸³ ₋₈₃	1128	18.16 ^{+0.14} _{-0.14}	160.03 ^{+0.24} _{-0.24}	1.81E+38	2.68E+35
3150	58732.972081239	563.3 ^{+0.6} _{-0.6}	6.8 ^{+2.7} _{-2.7}	78 ⁺⁴ ₋₄	1083	11.01 ^{+0.08} _{-0.08}	74.68 ^{+0.22} _{-0.22}	8.44E+37	2.53E+35
3151	58732.972484987	563.7 ^{+1.3} _{-1.3}	6.7 ^{+1.0} _{-1.0}	190 ⁺¹⁶ ₋₁₆	1160	11.73 ^{+0.09} _{-0.09}	78.61 ^{+0.65} _{-0.65}	8.41E+37	6.98E+35
3152	58732.972590477	563.2 ^{+1.4} _{-1.4}	3.6 ^{+1.2} _{-1.2}	52 ⁺²⁷ ₋₂₇	1364	7.79 ^{+0.06} _{-0.06}	27.82 ^{+0.07} _{-0.07}	3.14E+37	8.29E+34
3153	58732.972830667	562.9 ^{+1.4} _{-1.4}	4.7 ^{+1.6} _{-1.6}	75 ⁺⁴⁸ ₋₄₈	1307	7.73 ^{+0.06} _{-0.06}	36.66 ^{+0.10} _{-0.10}	4.14E+37	1.11E+35
3154	58732.972898291	563.2 ^{+1.2} _{-1.2}	3.2 ^{+0.5} _{-0.5}	125 ⁺⁹³ ₋₉₃	1384	10.06 ^{+0.07} _{-0.07}	31.94 ^{+0.27} _{-0.27}	3.42E+37	2.84E+35
3155	58732.972945233	562.9 ^{+1.0} _{-1.0}	3.6 ^{+1.8} _{-1.8}	154 ⁺⁴ ₋₄	1228	5.42 ^{+0.04} _{-0.04}	19.61 ^{+0.07} _{-0.07}	2.22E+37	8.36E+34
3156	58732.973019450	563.1 ^{+1.3} _{-1.3}	1.5 ^{+0.2} _{-0.2}	55 ⁺³⁸ ₋₃₈	1384	18.64 ^{+0.14} _{-0.14}	28.36 ^{+0.03} _{-0.03}	3.20E+37	3.43E+34
3157	58732.973185118	563.4 ^{+1.2} _{-1.2}	6.4 ^{+2.0} _{-2.0}	63 ⁺²⁸ ₋₂₈	1301	7.89 ^{+0.06} _{-0.06}	50.70 ^{+0.12} _{-0.12}	5.73E+37	1.37E+35
3158	58732.973185383	562.9 ^{+1.1} _{-1.1}	5.2 ^{+2.0} _{-2.0}	64 ⁺¹⁷ ₋₁₇	1084	9.75 ^{+0.08} _{-0.08}	50.23 ^{+0.15} _{-0.15}	5.68E+37	1.75E+35
3159	58732.973185482	563.9 ^{+0.8} _{-0.8}	4.6 ^{+3.2} _{-3.2}	64 ⁺⁵ ₋₅	1112	6.43 ^{+0.05} _{-0.05}	29.35 ^{+0.16} _{-0.16}	3.32E+37	1.78E+35
3160	58732.973223155	563.8 ^{+1.0} _{-1.0}	9.2 ^{+1.3} _{-1.3}	168 ⁺⁵² ₋₅₂	1313	8.86 ^{+0.06} _{-0.06}	81.27 ^{+0.67} _{-0.67}	8.70E+37	7.19E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3161	58732.973245530	564.4 ^{+0.8} _{-0.8}	5.4 ^{+1.8} _{-1.8}	93 ⁺⁴ ₋₄	1295	9.86 ^{+0.07} _{-0.07}	53.72 ^{+0.13} _{-0.13}	6.07E+37	1.47E+35
3162	58732.973246908	563.4 ^{+1.2} _{-1.2}	7.8 ^{+1.1} _{-1.1}	69 ⁺⁴ ₋₄	1369	5.71 ^{+0.04} _{-0.04}	44.37 ^{+0.37} _{-0.37}	4.75E+37	4.00E+35
3163	58732.973246970	564.0 ^{+1.2} _{-1.2}	2.8 ^{+1.1} _{-1.1}	275 ⁺⁸⁴ ₋₈₄	1183	6.76 ^{+0.05} _{-0.05}	18.89 ^{+0.06} _{-0.06}	2.13E+37	6.49E+34
3164	58732.973303177	563.4 ^{+1.2} _{-1.2}	1.8 ^{+0.3} _{-0.3}	162 ⁺¹⁸ ₋₁₈	1393	18.39 ^{+0.13} _{-0.13}	33.97 ^{+0.28} _{-0.28}	3.64E+37	3.03E+35
3165	58732.973373330	564.5 ^{+1.0} _{-1.0}	4.3 ^{+0.6} _{-0.6}	92 ⁺¹⁹ ₋₁₉	1383	11.85 ^{+0.09} _{-0.09}	51.23 ^{+0.43} _{-0.43}	5.48E+37	4.55E+35
3166	58732.973391575	563.6 ^{+1.2} _{-1.2}	2.1 ^{+1.2} _{-1.2}	156 ⁺¹⁰ ₋₁₀	1181	6.29 ^{+0.05} _{-0.05}	13.00 ^{+0.06} _{-0.06}	1.47E+37	6.83E+34
3167	58732.973566158	562.9 ^{+1.3} _{-1.3}	3.7 ^{+0.7} _{-0.7}	68 ⁺³⁵ ₋₃₅	1361	10.28 ^{+0.08} _{-0.08}	38.43 ^{+0.06} _{-0.06}	4.34E+37	6.34E+34
3168	58732.973621482	563.8 ^{+1.2} _{-1.2}	2.5 ^{+1.0} _{-1.0}	110 ⁺⁶³ ₋₆₃	1321	6.57 ^{+0.05} _{-0.05}	16.64 ^{+0.05} _{-0.05}	1.88E+37	5.47E+34
3169	58732.973894071	565.6 ^{+0.8} _{-0.8}	5.1 ^{+2.5} _{-2.5}	211 ⁺³⁸ ₋₃₈	1382	6.88 ^{+0.05} _{-0.05}	35.23 ^{+0.13} _{-0.13}	3.98E+37	1.49E+35
3170	58732.974077006	562.9 ^{+1.2} _{-1.2}	2.0 ^{+0.6} _{-0.6}	168 ⁺²⁴ ₋₂₄	1188	10.68 ^{+0.08} _{-0.08}	21.51 ^{+0.05} _{-0.05}	2.43E+37	5.48E+34
3171	58732.974157474	564.0 ^{+0.1} _{-0.1}	3.8 ^{+0.2} _{-0.2}	400 ⁺¹⁸ ₋₁₈	1278	124.21 ^{+5.09} _{-5.09}	467.03 ^{+0.92} _{-0.92}	5.00E+38	9.81E+35
3172	58732.974157496	564.0 ^{+0.1} _{-0.1}	4.7 ^{+0.7} _{-0.7}	438 ⁺²⁴ ₋₂₄	1252	27.18 ^{+0.20} _{-0.20}	127.53 ^{+1.06} _{-1.06}	1.37E+38	1.14E+36
3173	58732.974553874	563.5 ^{+1.2} _{-1.2}	2.2 ^{+0.3} _{-0.3}	69 ⁺¹² ₋₁₂	1427	12.23 ^{+0.09} _{-0.09}	26.64 ^{+0.22} _{-0.22}	2.85E+37	2.37E+35
3174	58732.974759286	563.8 ^{+1.1} _{-1.1}	3.0 ^{+1.2} _{-1.2}	114 ⁺⁴ ₋₄	1369	6.77 ^{+0.05} _{-0.05}	20.09 ^{+0.06} _{-0.06}	2.27E+37	7.14E+34
3175	58732.974786381	564.8 ^{+0.6} _{-0.6}	2.6 ^{+0.3} _{-0.3}	228 ⁺²² ₋₂₂	1380	70.72 ^{+5.84} _{-5.84}	185.99 ^{+1.52} _{-1.52}	1.99E+38	1.63E+36
3176	58732.975163895	562.6 ^{+0.0} _{-0.0}	3.3 ^{+0.2} _{-0.2}	469 ⁺¹³ ₋₁₃	1246	116.90 ^{+5.42} _{-5.42}	390.45 ^{+0.98} _{-0.98}	4.18E+38	1.04E+36
3177	58732.975163910	562.6 ^{+0.0} _{-0.0}	5.0 ^{+0.7} _{-0.7}	482 ⁺²⁰ ₋₂₀	1254	21.73 ^{+0.16} _{-0.16}	108.22 ^{+0.90} _{-0.90}	1.16E+38	9.64E+35
3178	58732.975472173	565.3 ^{+0.8} _{-0.8}	3.9 ^{+0.6} _{-0.6}	107 ⁺²¹ ₋₂₁	1377	17.33 ^{+0.13} _{-0.13}	66.93 ^{+0.56} _{-0.56}	7.16E+37	5.96E+35
3179	58732.975779338	563.7 ^{+1.1} _{-1.1}	4.0 ^{+0.6} _{-0.6}	56 ⁺³⁵ ₋₃₅	1384	12.17 ^{+0.09} _{-0.09}	49.19 ^{+0.41} _{-0.41}	5.27E+37	4.41E+35
3180	58732.976151745	563.1 ^{+1.2} _{-1.2}	2.9 ^{+0.4} _{-0.4}	91 ⁺²³ ₋₂₃	1416	12.09 ^{+0.09} _{-0.09}	34.98 ^{+0.29} _{-0.29}	3.74E+37	3.12E+35
3181	58732.976177005	563.6 ^{+0.3} _{-0.3}	2.9 ^{+0.1} _{-0.1}	244 ⁺³⁰ ₋₃₀	1377	141.21 ^{+5.95} _{-5.95}	405.27 ^{+0.83} _{-0.83}	4.34E+38	8.92E+35
3182	58732.976177021	563.3 ^{+1.3} _{-1.3}	3.0 ^{+0.4} _{-0.4}	71 ⁺⁴ ₋₄	1401	38.05 ^{+0.28} _{-0.28}	115.60 ^{+0.96} _{-0.96}	1.24E+38	1.03E+36
3183	58732.976177940	563.0 ^{+1.3} _{-1.3}	3.3 ^{+1.0} _{-1.0}	110 ⁺³⁵ ₋₃₅	1386	8.24 ^{+0.07} _{-0.07}	26.97 ^{+0.06} _{-0.06}	3.05E+37	7.21E+34
3184	58732.976178370	563.1 ^{+1.2} _{-1.2}	3.8 ^{+1.3} _{-1.3}	157 ⁺¹⁴⁷ ₋₁₄₇	1313	10.91 ^{+0.09} _{-0.09}	41.91 ^{+0.11} _{-0.11}	4.74E+37	1.29E+35
3185	58732.976178858	562.7 ^{+1.3} _{-1.3}	3.8 ^{+1.8} _{-1.8}	126 ⁺⁷ ₋₇	1312	8.09 ^{+0.06} _{-0.06}	31.07 ^{+0.11} _{-0.11}	3.51E+37	1.27E+35
3186	58732.976186005	563.1 ^{+1.2} _{-1.2}	3.3 ^{+0.6} _{-0.6}	63 ⁺²⁵ ₋₂₅	1366	16.27 ^{+0.12} _{-0.12}	53.12 ^{+0.07} _{-0.07}	6.00E+37	7.99E+34
3187	58732.976291223	564.1 ^{+1.1} _{-1.1}	3.9 ^{+0.6} _{-0.6}	181 ⁺⁵⁴ ₋₅₄	1345	14.09 ^{+0.11} _{-0.11}	55.08 ^{+0.07} _{-0.07}	6.22E+37	7.58E+34
3188	58732.976291677	562.4 ^{+0.7} _{-0.7}	2.9 ^{+0.9} _{-0.9}	126 ⁺¹¹ ₋₁₁	1387	10.04 ^{+0.08} _{-0.08}	28.67 ^{+0.07} _{-0.07}	3.24E+37	7.87E+34
3189	58732.976378639	563.0 ^{+0.6} _{-0.6}	3.1 ^{+1.3} _{-1.3}	80 ⁺²⁰ ₋₂₀	1063	6.85 ^{+0.05} _{-0.05}	21.53 ^{+0.07} _{-0.07}	2.43E+37	7.71E+34
3190	58732.976446151	562.6 ^{+1.2} _{-1.2}	2.0 ^{+0.6} _{-0.6}	102 ⁺¹⁷ ₋₁₇	1397	11.03 ^{+0.08} _{-0.08}	21.67 ^{+0.05} _{-0.05}	2.45E+37	5.43E+34
3191	58732.976447314	562.0 ^{+0.8} _{-0.8}	5.5 ^{+1.4} _{-1.4}	55 ⁺¹⁰ ₋₁₀	1336	9.90 ^{+0.07} _{-0.07}	54.46 ^{+0.10} _{-0.10}	6.15E+37	1.14E+35
3192	58732.976448185	561.5 ^{+0.4} _{-0.4}	3.7 ^{+1.0} _{-1.0}	104 ⁺³ ₋₃	1092	11.94 ^{+0.09} _{-0.09}	43.73 ^{+0.08} _{-0.08}	4.94E+37	9.46E+34
3193	58732.976448536	563.6 ^{+1.2} _{-1.2}	6.2 ^{+1.9} _{-1.9}	148 ⁺⁷ ₋₇	1334	7.33 ^{+0.05} _{-0.05}	45.57 ^{+0.10} _{-0.10}	5.15E+37	1.15E+35
3194	58732.976490498	563.1 ^{+1.3} _{-1.3}	8.1 ^{+3.4} _{-3.4}	241 ⁺⁴⁶ ₋₄₆	1332	7.70 ^{+0.06} _{-0.06}	62.62 ^{+0.19} _{-0.19}	7.08E+37	2.18E+35
3195	58732.976516272	562.8 ^{+1.2} _{-1.2}	1.6 ^{+1.2} _{-1.2}	93 ⁺⁴ ₋₄	1362	4.75 ^{+0.04} _{-0.04}	7.63 ^{+0.05} _{-0.05}	8.62E+36	5.22E+34
3196	58732.976516499	562.8 ^{+1.3} _{-1.3}	2.8 ^{+0.7} _{-0.7}	53 ⁺²⁵ ₋₂₅	1358	13.84 ^{+0.11} _{-0.11}	38.11 ^{+0.08} _{-0.08}	4.31E+37	9.39E+34
3197	58732.976610231	562.9 ^{+1.1} _{-1.1}	6.6 ^{+1.0} _{-1.0}	127 ⁺⁶⁷ ₋₆₇	1328	9.57 ^{+0.07} _{-0.07}	63.15 ^{+0.53} _{-0.53}	6.76E+37	5.66E+35
3198	58732.976757335	563.9 ^{+1.2} _{-1.2}	3.5 ^{+0.5} _{-0.5}	153 ⁺²⁵ ₋₂₅	1377	14.70 ^{+0.11} _{-0.11}	52.14 ^{+0.43} _{-0.43}	5.58E+37	4.65E+35
3199	58732.976802784	563.7 ^{+0.9} _{-0.9}	4.9 ^{+2.0} _{-2.0}	48 ⁺⁵ ₋₅	1424	8.22 ^{+0.06} _{-0.06}	40.10 ^{+0.12} _{-0.12}	4.53E+37	1.40E+35
3200	58732.977225625	563.1 ^{+1.3} _{-1.3}	5.6 ^{+0.8} _{-0.8}	106 ⁺⁸¹ ₋₈₁	1207	4.77 ^{+0.04} _{-0.04}	26.57 ^{+0.22} _{-0.22}	2.84E+37	2.39E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3201	58732.977226126	562.8 ^{+1.2} _{-1.2}	5.7 ^{+1.2} _{-1.2}	65 ⁺²² ₋₂₂	1419	12.97 ^{+0.10} _{-0.10}	74.34 ^{+0.12} _{-0.12}	8.40E+37	1.33E+35
3202	58732.977284362	563.2 ^{+1.2} _{-1.2}	3.1 ^{+1.4} _{-1.4}	79 ⁺³⁷ ₋₃₇	1409	8.69 ^{+0.07} _{-0.07}	27.24 ^{+0.10} _{-0.10}	3.08E+37	1.14E+35
3203	58732.977342749	563.4 ^{+1.0} _{-1.0}	1.7 ^{+0.8} _{-0.8}	119 ⁺⁴⁷ ₋₄₇	1382	5.80 ^{+0.04} _{-0.04}	9.66 ^{+0.03} _{-0.03}	1.09E+37	3.83E+34
3204	58732.977749456	563.4 ^{+1.2} _{-1.2}	1.9 ^{+0.2} _{-0.2}	145 ⁺⁵⁴ ₋₅₄	1392	87.01 ^{+7.11} _{-7.11}	162.71 ^{+1.28} _{-1.28}	1.74E+38	1.37E+36
3205	58732.977783250	563.7 ^{+1.3} _{-1.3}	78.5 ^{+11.3} _{-11.3}	183 ⁺¹⁴ ₋₁₄	1124	9.99 ^{+0.07} _{-0.07}	784.41 ^{+6.56} _{-6.56}	8.40E+38	7.02E+36
3206	58732.978586864	563.0 ^{+1.3} _{-1.3}	4.7 ^{+1.0} _{-1.0}	114 ⁺¹⁹ ₋₁₉	1280	12.46 ^{+0.09} _{-0.09}	58.58 ^{+0.09} _{-0.09}	6.62E+37	1.01E+35
3207	58732.978597710	563.5 ^{+1.3} _{-1.3}	2.5 ^{+1.2} _{-1.2}	119 ⁺⁵⁷ ₋₅₇	1350	6.09 ^{+0.04} _{-0.04}	14.95 ^{+0.05} _{-0.05}	1.69E+37	5.94E+34
3208	58732.978836594	562.9 ^{+1.2} _{-1.2}	3.2 ^{+0.9} _{-0.9}	77 ⁺²³ ₋₂₃	1348	9.65 ^{+0.07} _{-0.07}	31.25 ^{+0.07} _{-0.07}	3.53E+37	7.63E+34
3209	58732.979069598	563.3 ^{+1.1} _{-1.1}	7.2 ^{+1.9} _{-1.9}	56 ⁺⁵¹ ₋₅₁	1396	7.54 ^{+0.06} _{-0.06}	54.06 ^{+0.11} _{-0.11}	6.11E+37	1.23E+35
3210	58732.979071488	564.4 ^{+1.1} _{-1.1}	2.7 ^{+0.7} _{-0.7}	69 ⁺⁶ ₋₆	1274	10.09 ^{+0.08} _{-0.08}	27.19 ^{+0.05} _{-0.05}	3.07E+37	5.66E+34
3211	58732.979085116	562.4 ^{+0.5} _{-0.5}	6.5 ^{+1.3} _{-1.3}	123 ⁺¹³ ₋₁₃	1192	14.84 ^{+0.12} _{-0.12}	96.50 ^{+0.15} _{-0.15}	1.09E+38	1.69E+35
3212	58732.979299032	562.0 ^{+1.3} _{-1.3}	5.6 ^{+1.4} _{-1.4}	120 ⁺⁵⁵ ₋₅₅	1330	12.86 ^{+0.10} _{-0.10}	71.70 ^{+0.15} _{-0.15}	8.10E+37	1.69E+35
3213	58732.979472957	562.9 ^{+1.5} _{-1.5}	1.9 ^{+0.6} _{-0.6}	122 ⁺⁴² ₋₄₂	1400	7.88 ^{+0.06} _{-0.06}	14.86 ^{+0.04} _{-0.04}	1.68E+37	4.68E+34
3214	58732.979473842	564.5 ^{+0.5} _{-0.5}	3.2 ^{+1.4} _{-1.4}	76 ⁺⁷ ₋₇	1401	8.01 ^{+0.07} _{-0.07}	25.39 ^{+0.09} _{-0.09}	2.87E+37	1.04E+35
3215	58732.979584286	563.7 ^{+0.8} _{-0.8}	4.0 ^{+0.8} _{-0.8}	99 ⁺⁵ ₋₅	1375	10.61 ^{+0.08} _{-0.08}	42.83 ^{+0.07} _{-0.07}	4.84E+37	7.67E+34
3216	58732.979781919	562.6 ^{+1.3} _{-1.3}	10.6 ^{+0.8} _{-0.8}	166 ⁺⁹ ₋₉	1395	49.36 ^{+3.09} _{-3.09}	522.23 ^{+2.47} _{-2.47}	5.59E+38	2.65E+36
3217	58732.979922183	563.6 ^{+1.0} _{-1.0}	2.5 ^{+0.8} _{-0.8}	52 ⁺²² ₋₂₂	1379	8.93 ^{+0.07} _{-0.07}	21.94 ^{+0.05} _{-0.05}	2.48E+37	6.07E+34
3218	58732.979990583	562.3 ^{+0.8} _{-0.8}	4.5 ^{+1.1} _{-1.1}	110 ⁺⁵⁷ ₋₅₇	1412	10.60 ^{+0.08} _{-0.08}	47.23 ^{+0.09} _{-0.09}	5.34E+37	1.01E+35
3219	58732.980021514	562.9 ^{+1.4} _{-1.4}	7.0 ^{+1.0} _{-1.0}	58 ⁺²⁰ ₋₂₀	1408	9.35 ^{+0.07} _{-0.07}	65.11 ^{+0.55} _{-0.55}	6.97E+37	5.88E+35
3220	58732.980138005	565.1 ^{+0.4} _{-0.4}	6.2 ^{+0.4} _{-0.4}	321 ⁺³⁶ ₋₃₆	1254	74.10 ^{+4.01} _{-4.01}	455.71 ^{+1.56} _{-1.56}	4.88E+38	1.67E+36
3221	58732.980609729	563.2 ^{+1.2} _{-1.2}	2.2 ^{+1.4} _{-1.4}	124 ⁺³ ₋₃	1365	6.23 ^{+0.05} _{-0.05}	13.55 ^{+0.07} _{-0.07}	1.53E+37	7.37E+34
3222	58732.980610244	564.7 ^{+1.1} _{-1.1}	7.0 ^{+2.5} _{-2.5}	51 ⁺²⁷ ₋₂₇	1396	11.50 ^{+0.09} _{-0.09}	80.03 ^{+0.22} _{-0.22}	9.04E+37	2.45E+35
3223	58732.980610507	563.5 ^{+1.3} _{-1.3}	2.3 ^{+0.7} _{-0.7}	103 ⁺⁷ ₋₇	1361	9.38 ^{+0.07} _{-0.07}	21.20 ^{+0.05} _{-0.05}	2.40E+37	5.53E+34
3224	58732.980610920	563.0 ^{+1.2} _{-1.2}	3.5 ^{+1.1} _{-1.1}	147 ⁺⁴⁵ ₋₄₅	1152	11.39 ^{+0.09} _{-0.09}	39.97 ^{+0.09} _{-0.09}	4.52E+37	1.01E+35
3225	58732.980610990	563.5 ^{+1.3} _{-1.3}	5.8 ^{+1.7} _{-1.7}	117 ⁺²⁵ ₋₂₅	1410	11.06 ^{+0.08} _{-0.08}	64.19 ^{+0.14} _{-0.14}	7.25E+37	1.61E+35
3226	58732.980776790	564.1 ^{+1.2} _{-1.2}	9.1 ^{+1.3} _{-1.3}	100 ⁺¹⁵ ₋₁₅	1304	11.72 ^{+0.09} _{-0.09}	106.86 ^{+0.90} _{-0.90}	1.14E+38	9.60E+35
3227	58732.980783836	563.5 ^{+1.3} _{-1.3}	5.8 ^{+0.8} _{-0.8}	119 ⁺⁶ ₋₆	1364	7.01 ^{+0.05} _{-0.05}	40.77 ^{+0.34} _{-0.34}	4.36E+37	3.63E+35
3228	58732.980839313	563.5 ^{+1.1} _{-1.1}	3.0 ^{+1.1} _{-1.1}	84 ⁺⁴ ₋₄	1397	7.54 ^{+0.06} _{-0.06}	22.95 ^{+0.07} _{-0.07}	2.59E+37	7.94E+34
3229	58732.980947070	562.3 ^{+1.1} _{-1.1}	4.2 ^{+2.0} _{-2.0}	119 ⁺⁴³ ₋₄₃	1377	7.63 ^{+0.06} _{-0.06}	32.12 ^{+0.11} _{-0.11}	3.63E+37	1.28E+35
3230	58732.980996235	560.6 ^{+0.5} _{-0.5}	3.5 ^{+0.9} _{-0.9}	87 ⁺³⁸ ₋₃₈	1190	11.66 ^{+0.09} _{-0.09}	41.24 ^{+0.08} _{-0.08}	4.66E+37	8.79E+34
3231	58732.981006259	563.4 ^{+1.6} _{-1.6}	5.9 ^{+1.2} _{-1.2}	72 ⁺²² ₋₂₂	1168	11.59 ^{+0.09} _{-0.09}	68.24 ^{+0.11} _{-0.11}	7.71E+37	1.30E+35
3232	58732.981298015	564.1 ^{+0.9} _{-0.9}	2.5 ^{+0.6} _{-0.6}	189 ⁺⁴⁰ ₋₄₀	1216	12.98 ^{+0.10} _{-0.10}	32.76 ^{+0.06} _{-0.06}	3.70E+37	6.29E+34
3233	58732.981464859	563.4 ^{+1.3} _{-1.3}	4.9 ^{+2.6} _{-2.6}	72 ⁺³¹ ₋₃₁	1383	5.83 ^{+0.04} _{-0.04}	28.51 ^{+0.11} _{-0.11}	3.22E+37	1.24E+35
3234	58732.981507673	565.3 ^{+0.9} _{-0.9}	3.9 ^{+0.6} _{-0.6}	126 ⁺³⁴ ₋₃₄	1273	13.60 ^{+0.10} _{-0.10}	53.67 ^{+0.45} _{-0.45}	5.74E+37	4.83E+35
3235	58732.981526403	564.5 ^{+0.8} _{-0.8}	5.4 ^{+1.4} _{-1.4}	66 ⁺²⁵ ₋₂₅	1102	12.86 ^{+0.10} _{-0.10}	69.86 ^{+0.15} _{-0.15}	7.89E+37	1.69E+35
3236	58732.981633129	563.4 ^{+1.4} _{-1.4}	4.9 ^{+1.3} _{-1.3}	69 ⁺⁴ ₋₄	1411	7.43 ^{+0.06} _{-0.06}	36.24 ^{+0.07} _{-0.07}	4.09E+37	8.37E+34
3237	58732.981634514	564.0 ^{+1.4} _{-1.4}	5.1 ^{+1.9} _{-1.9}	45 ⁺¹¹ ₋₁₁	1423	6.61 ^{+0.05} _{-0.05}	33.45 ^{+0.09} _{-0.09}	3.78E+37	1.03E+35
3238	58732.981709831	564.2 ^{+0.9} _{-0.9}	3.9 ^{+1.2} _{-1.2}	80 ⁺⁸ ₋₈	1398	6.94 ^{+0.05} _{-0.05}	27.26 ^{+0.07} _{-0.07}	3.08E+37	7.37E+34
3239	58732.981709935	564.8 ^{+0.7} _{-0.7}	3.5 ^{+0.8} _{-0.8}	141 ⁺⁷ ₋₇	1365	10.27 ^{+0.08} _{-0.08}	35.69 ^{+0.06} _{-0.06}	4.03E+37	6.97E+34
3240	58732.981869539	563.7 ^{+0.9} _{-0.9}	9.3 ^{+5.1} _{-5.1}	54 ⁺¹⁰ ₋₁₀	1261	6.46 ^{+0.05} _{-0.05}	60.32 ^{+0.26} _{-0.26}	6.82E+37	2.97E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3241	58732.982006688	563.6 ^{+1.2} _{-1.2}	5.3 ^{+1.2} _{-1.2}	100 ⁺⁴² ₋₄₂	1115	9.02 ^{+0.07} _{-0.07}	48.14 ^{+0.09} _{-0.09}	5.44E+37	9.62E+34
3242	58732.982051405	565.0 ^{+0.5} _{-0.5}	5.3 ^{+2.0} _{-2.0}	89 ⁺⁴⁴ ₋₄₄	1317	8.08 ^{+0.07} _{-0.07}	42.43 ^{+0.13} _{-0.13}	4.80E+37	1.49E+35
3243	58732.982207815	563.5 ^{+1.3} _{-1.3}	3.2 ^{+1.3} _{-1.3}	61 ⁺¹¹ ₋₁₁	1386	6.53 ^{+0.05} _{-0.05}	21.15 ^{+0.07} _{-0.07}	2.39E+37	7.39E+34
3244	58732.98221955	562.6 ^{+1.2} _{-1.2}	4.8 ^{+2.3} _{-2.3}	68 ⁺⁷ ₋₇	1389	7.18 ^{+0.06} _{-0.06}	34.49 ^{+0.14} _{-0.14}	3.90E+37	1.53E+35
3245	58732.982222203	563.7 ^{+1.4} _{-1.4}	1.8 ^{+0.5} _{-0.5}	141 ⁺⁴⁰ ₋₄₀	1296	13.64 ^{+0.11} _{-0.11}	24.47 ^{+0.05} _{-0.05}	2.76E+37	5.81E+34
3246	58732.982222414	563.6 ^{+0.8} _{-0.8}	6.2 ^{+1.9} _{-1.9}	191 ⁺⁷⁴ ₋₇₄	1223	10.75 ^{+0.09} _{-0.09}	66.70 ^{+0.16} _{-0.16}	7.54E+37	1.86E+35
3247	58732.982222921	563.5 ^{+1.2} _{-1.2}	2.1 ^{+0.7} _{-0.7}	89 ⁺³⁰ ₋₃₀	1312	7.37 ^{+0.06} _{-0.06}	15.15 ^{+0.04} _{-0.04}	1.71E+37	4.99E+34
3248	58732.982263537	564.4 ^{+0.6} _{-0.6}	3.7 ^{+0.5} _{-0.5}	134 ⁺¹⁶ ₋₁₆	1260	11.73 ^{+0.09} _{-0.09}	43.77 ^{+0.37} _{-0.37}	4.69E+37	3.98E+35
3249	58732.982521422	565.3 ^{+0.6} _{-0.6}	6.9 ^{+1.3} _{-1.3}	224 ⁺²⁹ ₋₂₉	1357	16.86 ^{+0.14} _{-0.14}	116.37 ^{+0.18} _{-0.18}	1.31E+38	2.04E+35
3250	58732.982521522	565.2 ^{+0.6} _{-0.6}	3.1 ^{+1.0} _{-1.0}	65 ⁺¹⁰ ₋₁₀	1389	9.64 ^{+0.08} _{-0.08}	30.08 ^{+0.08} _{-0.08}	3.40E+37	9.28E+34
3251	58732.982524033	563.3 ^{+1.3} _{-1.3}	4.0 ^{+0.6} _{-0.6}	80 ⁺¹⁴ ₋₁₄	1211	16.30 ^{+0.13} _{-0.13}	64.41 ^{+0.08} _{-0.08}	7.28E+37	9.20E+34
3252	58732.982562852	563.1 ^{+1.2} _{-1.2}	6.6 ^{+2.1} _{-2.1}	97 ⁺⁴ ₋₄	1106	8.06 ^{+0.07} _{-0.07}	53.36 ^{+0.14} _{-0.14}	6.03E+37	1.57E+35
3253	58732.982769467	565.3 ^{+0.7} _{-0.7}	5.9 ^{+0.9} _{-0.9}	123 ⁺²² ₋₂₂	1200	13.35 ^{+0.10} _{-0.10}	78.84 ^{+0.67} _{-0.67}	8.44E+37	7.16E+35
3254	58732.982835151	562.9 ^{+1.3} _{-1.3}	5.0 ^{+1.5} _{-1.5}	122 ⁺⁷⁵ ₋₇₅	1262	7.62 ^{+0.06} _{-0.06}	38.01 ^{+0.08} _{-0.08}	4.30E+37	9.57E+34
3255	58732.982977289	563.2 ^{+1.3} _{-1.3}	4.9 ^{+0.8} _{-0.8}	163 ⁺³⁴ ₋₃₄	1215	15.32 ^{+0.12} _{-0.12}	75.79 ^{+0.09} _{-0.09}	8.56E+37	1.04E+35
3256	58732.983209149	564.7 ^{+0.5} _{-0.5}	3.9 ^{+0.6} _{-0.6}	150 ⁺⁶⁹ ₋₆₉	1336	14.86 ^{+0.11} _{-0.11}	58.29 ^{+0.49} _{-0.49}	6.24E+37	5.29E+35
3257	58732.983225623	563.0 ^{+1.2} _{-1.2}	3.8 ^{+1.9} _{-1.9}	108 ⁺⁶ ₋₆	1384	4.97 ^{+0.04} _{-0.04}	18.72 ^{+0.07} _{-0.07}	2.12E+37	7.79E+34
3258	58732.983243884	564.3 ^{+1.0} _{-1.0}	4.3 ^{+1.4} _{-1.4}	82 ⁺²² ₋₂₂	1129	8.01 ^{+0.07} _{-0.07}	34.10 ^{+0.09} _{-0.09}	3.85E+37	1.03E+35
3259	58732.983345052	563.7 ^{+1.2} _{-1.2}	6.2 ^{+2.2} _{-2.2}	55 ⁺²¹ ₋₂₁	1403	7.89 ^{+0.06} _{-0.06}	48.88 ^{+0.13} _{-0.13}	5.52E+37	1.51E+35
3260	58732.983561798	564.0 ^{+1.1} _{-1.1}	3.7 ^{+0.6} _{-0.6}	88 ⁺³² ₋₃₂	1364	19.06 ^{+0.15} _{-0.15}	71.27 ^{+0.09} _{-0.09}	8.05E+37	9.85E+34
3261	58732.983563851	563.4 ^{+1.4} _{-1.4}	5.5 ^{+1.1} _{-1.1}	196 ⁺⁵⁰ ₋₅₀	1332	16.81 ^{+0.13} _{-0.13}	92.46 ^{+0.14} _{-0.14}	1.04E+38	1.59E+35
3262	58732.983567555	564.7 ^{+0.4} _{-0.4}	4.4 ^{+0.8} _{-0.8}	107 ⁺⁴³ ₋₄₃	1360	16.16 ^{+0.12} _{-0.12}	71.58 ^{+0.10} _{-0.10}	8.09E+37	1.11E+35
3263	58732.983567692	564.2 ^{+0.7} _{-0.7}	6.0 ^{+0.9} _{-0.9}	181 ⁺²³ ₋₂₃	1343	16.40 ^{+0.13} _{-0.13}	98.58 ^{+0.12} _{-0.12}	1.11E+38	1.32E+35
3264	58732.983788085	563.7 ^{+1.3} _{-1.3}	3.0 ^{+0.4} _{-0.4}	108 ⁺⁵⁵ ₋₅₅	1343	11.44 ^{+0.09} _{-0.09}	34.38 ^{+0.29} _{-0.29}	3.68E+37	3.13E+35
3265	58732.983788335	563.4 ^{+1.3} _{-1.3}	2.2 ^{+1.9} _{-1.9}	47 ⁺⁴ ₋₄	1139	3.76 ^{+0.03} _{-0.03}	8.24 ^{+0.05} _{-0.05}	9.31E+36	6.12E+34
3266	58732.983851437	563.3 ^{+1.4} _{-1.4}	6.8 ^{+1.0} _{-1.0}	106 ⁺²² ₋₂₂	1093	15.81 ^{+0.12} _{-0.12}	107.05 ^{+0.91} _{-0.91}	1.15E+38	9.78E+35
3267	58732.983885224	560.3 ^{+0.1} _{-0.1}	4.7 ^{+3.8} _{-3.8}	137 ⁺²¹ ₋₂₁	1413	5.67 ^{+0.04} _{-0.04}	26.80 ^{+0.17} _{-0.17}	3.03E+37	1.93E+35
3268	58732.983981958	561.1 ^{+0.8} _{-0.8}	3.1 ^{+1.8} _{-1.8}	59 ⁺⁴ ₋₄	1078	5.34 ^{+0.05} _{-0.05}	16.71 ^{+0.08} _{-0.08}	1.89E+37	9.33E+34
3269	58732.983982815	562.5 ^{+1.3} _{-1.3}	6.4 ^{+2.3} _{-2.3}	72 ⁺²⁷ ₋₂₇	1112	9.52 ^{+0.08} _{-0.08}	61.11 ^{+0.19} _{-0.19}	6.91E+37	2.10E+35
3270	58732.984057600	563.3 ^{+1.2} _{-1.2}	4.4 ^{+0.6} _{-0.6}	84 ⁺⁴⁹ ₋₄₉	1324	21.56 ^{+0.16} _{-0.16}	94.36 ^{+0.81} _{-0.81}	1.01E+38	8.63E+35
3271	58732.984088660	564.2 ^{+1.0} _{-1.0}	2.4 ^{+0.2} _{-0.2}	202 ⁺¹⁰ ₋₁₀	1216	83.32 ^{+6.35} _{-6.35}	204.13 ^{+1.40} _{-1.40}	2.19E+38	1.50E+36
3272	58732.984088668	564.2 ^{+1.0} _{-1.0}	3.4 ^{+0.5} _{-0.5}	211 ⁺¹³ ₋₁₃	1215	21.54 ^{+0.16} _{-0.16}	74.26 ^{+0.63} _{-0.63}	7.95E+37	6.80E+35
3273	58732.984154212	563.1 ^{+1.0} _{-1.0}	2.8 ^{+0.6} _{-0.6}	106 ⁺⁵² ₋₅₂	1359	13.40 ^{+0.11} _{-0.11}	37.47 ^{+0.07} _{-0.07}	4.23E+37	7.71E+34
3274	58732.984561150	563.0 ^{+1.3} _{-1.3}	3.5 ^{+0.9} _{-0.9}	156 ⁺²⁹ ₋₂₉	1326	9.60 ^{+0.07} _{-0.07}	33.61 ^{+0.07} _{-0.07}	3.80E+37	7.53E+34
3275	58732.984704942	562.7 ^{+1.4} _{-1.4}	5.7 ^{+2.0} _{-2.0}	47 ⁺²⁴ ₋₂₄	1326	10.71 ^{+0.08} _{-0.08}	60.84 ^{+0.16} _{-0.16}	6.87E+37	1.86E+35
3276	58732.985279102	565.2 ^{+0.9} _{-0.9}	3.1 ^{+0.6} _{-0.6}	79 ⁺¹⁶ ₋₁₆	1357	12.55 ^{+0.11} _{-0.11}	38.93 ^{+0.06} _{-0.06}	4.40E+37	6.72E+34
3277	58732.985279840	563.6 ^{+0.8} _{-0.8}	5.3 ^{+1.0} _{-1.0}	170 ⁺³² ₋₃₂	1130	15.20 ^{+0.13} _{-0.13}	80.47 ^{+0.13} _{-0.13}	9.09E+37	1.43E+35
3278	58732.985321348	563.1 ^{+1.3} _{-1.3}	4.9 ^{+1.2} _{-1.2}	91 ⁺⁴ ₋₄	1361	7.97 ^{+0.07} _{-0.07}	39.41 ^{+0.08} _{-0.08}	4.45E+37	9.06E+34
3279	58732.985450712	564.2 ^{+0.5} _{-0.5}	3.3 ^{+0.5} _{-0.5}	88 ⁺⁵⁴ ₋₅₄	1427	12.34 ^{+0.09} _{-0.09}	40.58 ^{+0.35} _{-0.35}	4.34E+37	3.75E+35
3280	58732.985451493	564.8 ^{+0.7} _{-0.7}	1.5 ^{+0.4} _{-0.4}	91 ⁺⁷⁰ ₋₇₀	1376	12.45 ^{+0.11} _{-0.11}	18.31 ^{+0.04} _{-0.04}	2.07E+37	4.72E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3281	58732.985554271	562.1 ^{+0.7} _{-0.7}	3.8 ^{+1.3} _{-1.3}	49 ⁺⁴ ₋₄	1048	8.33 ^{+0.06} _{-0.06}	31.57 ^{+0.08} _{-0.08}	3.57E+37	9.21E+34
3282	58732.985781956	563.3 ^{+1.2} _{-1.2}	4.7 ^{+2.3} _{-2.3}	57 ⁺³ ₋₃	1377	6.70 ^{+0.05} _{-0.05}	31.68 ^{+0.12} _{-0.12}	3.58E+37	1.30E+35
3283	58732.985953578	562.3 ^{+0.3} _{-0.3}	3.3 ^{+0.3} _{-0.3}	187 ⁺⁵⁴ ₋₅₄	1364	62.27 ^{+5.30} _{-5.30}	204.87 ^{+1.75} _{-1.75}	2.19E+38	1.87E+36
3284	58732.986266885	562.8 ^{+1.0} _{-1.0}	7.9 ^{+3.5} _{-3.5}	120 ⁺²⁵ ₋₂₅	1258	8.27 ^{+0.06} _{-0.06}	65.72 ^{+0.22} _{-0.22}	7.43E+37	2.47E+35
3285	58732.986339706	562.4 ^{+1.2} _{-1.2}	5.7 ^{+0.8} _{-0.8}	115 ⁺⁵⁴ ₋₅₄	1358	9.92 ^{+0.07} _{-0.07}	56.56 ^{+0.49} _{-0.49}	6.05E+37	5.24E+35
3286	58732.986548915	563.0 ^{+1.2} _{-1.2}	5.6 ^{+2.6} _{-2.6}	49 ⁺²⁹ ₋₂₉	1331	10.04 ^{+0.08} _{-0.08}	56.34 ^{+0.22} _{-0.22}	6.37E+37	2.46E+35
3287	58732.986582884	563.9 ^{+0.7} _{-0.7}	3.9 ^{+1.6} _{-1.6}	77 ⁺¹⁵ ₋₁₅	1378	9.25 ^{+0.08} _{-0.08}	36.26 ^{+0.12} _{-0.12}	4.10E+37	1.41E+35
3288	58732.986675513	564.5 ^{+1.0} _{-1.0}	2.0 ^{+0.8} _{-0.8}	115 ⁺⁵⁰ ₋₅₀	1340	8.39 ^{+0.07} _{-0.07}	16.90 ^{+0.06} _{-0.06}	1.91E+37	6.48E+34
3289	58732.986714342	563.9 ^{+1.0} _{-1.0}	4.5 ^{+1.2} _{-1.2}	75 ⁺²⁴ ₋₂₄	1407	13.05 ^{+0.11} _{-0.11}	59.24 ^{+0.13} _{-0.13}	6.69E+37	1.49E+35
3290	58732.986745056	563.5 ^{+1.2} _{-1.2}	2.4 ^{+0.3} _{-0.3}	77 ⁺⁵⁰ ₋₅₀	1151	5.19 ^{+0.04} _{-0.04}	12.48 ^{+0.11} _{-0.11}	1.34E+37	1.15E+35
3291	58732.987126862	562.7 ^{+1.3} _{-1.3}	4.4 ^{+1.4} _{-1.4}	207 ⁺⁹ ₋₉	1280	8.95 ^{+0.07} _{-0.07}	39.31 ^{+0.09} _{-0.09}	4.44E+37	1.07E+35
3292	58732.987278548	563.1 ^{+1.2} _{-1.2}	3.9 ^{+1.8} _{-1.8}	86 ⁺¹⁸ ₋₁₈	1284	11.35 ^{+0.10} _{-0.10}	43.98 ^{+0.18} _{-0.18}	4.97E+37	2.00E+35
3293	58732.987321423	564.6 ^{+0.7} _{-0.7}	1.4 ^{+0.6} _{-0.6}	141 ⁺⁴⁸ ₋₄₈	1294	10.89 ^{+0.09} _{-0.09}	15.74 ^{+0.05} _{-0.05}	1.78E+37	5.89E+34
3294	58732.987379176	563.3 ^{+1.2} _{-1.2}	5.5 ^{+3.4} _{-3.4}	79 ⁺⁶¹ ₋₆₁	1117	8.82 ^{+0.07} _{-0.07}	48.13 ^{+0.23} _{-0.23}	5.44E+37	2.63E+35
3295	58732.987636594	563.0 ^{+1.3} _{-1.3}	3.2 ^{+1.3} _{-1.3}	121 ⁺⁵² ₋₅₂	1230	10.91 ^{+0.09} _{-0.09}	35.33 ^{+0.12} _{-0.12}	3.99E+37	1.35E+35
3296	58732.987695092	563.4 ^{+1.3} _{-1.3}	3.7 ^{+2.2} _{-2.2}	74 ⁺¹² ₋₁₂	1370	7.41 ^{+0.06} _{-0.06}	27.58 ^{+0.13} _{-0.13}	3.12E+37	1.45E+35
3297	58732.987876880	562.7 ^{+1.1} _{-1.1}	1.5 ^{+1.0} _{-1.0}	31 ⁺⁵ ₋₅	1177	6.55 ^{+0.05} _{-0.05}	10.13 ^{+0.05} _{-0.05}	1.15E+37	5.90E+34
3298	58732.987930273	562.6 ^{+1.3} _{-1.3}	1.4 ^{+0.5} _{-0.5}	163 ⁺⁹ ₋₉	1138	12.59 ^{+0.11} _{-0.11}	17.98 ^{+0.05} _{-0.05}	2.03E+37	5.74E+34
3299	58732.987972964	561.9 ^{+1.1} _{-1.1}	5.1 ^{+1.4} _{-1.4}	113 ⁺⁷ ₋₇	1101	10.74 ^{+0.09} _{-0.09}	54.87 ^{+0.13} _{-0.13}	6.20E+37	1.52E+35
3300	58732.987988174	563.2 ^{+1.1} _{-1.1}	3.6 ^{+0.9} _{-0.9}	47 ⁺⁸ ₋₈	1414	10.19 ^{+0.08} _{-0.08}	36.59 ^{+0.08} _{-0.08}	4.13E+37	8.59E+34
3301	58732.987988376	563.2 ^{+1.4} _{-1.4}	7.8 ^{+1.1} _{-1.1}	15 ⁺⁵ ₋₅	1389	2.45 ^{+0.02} _{-0.02}	19.11 ^{+0.17} _{-0.17}	2.05E+37	1.82E+35
3302	58732.988011253	563.5 ^{+1.3} _{-1.3}	3.3 ^{+0.8} _{-0.8}	73 ⁺⁶⁰ ₋₆₀	1167	13.18 ^{+0.11} _{-0.11}	43.45 ^{+0.09} _{-0.09}	4.91E+37	1.01E+35
3303	58732.988177307	563.6 ^{+1.3} _{-1.3}	5.0 ^{+1.5} _{-1.5}	66 ⁺⁴⁹ ₋₄₉	1299	10.56 ^{+0.08} _{-0.08}	52.80 ^{+0.13} _{-0.13}	5.97E+37	1.43E+35
3304	58732.988177739	563.1 ^{+1.1} _{-1.1}	4.4 ^{+0.5} _{-0.5}	298 ⁺⁵⁷ ₋₅₇	1170	19.97 ^{+0.16} _{-0.16}	87.76 ^{+0.08} _{-0.08}	9.92E+37	8.50E+34
3305	58732.988186612	562.7 ^{+1.3} _{-1.3}	3.6 ^{+1.1} _{-1.1}	76 ⁺⁸ ₋₈	1341	12.63 ^{+0.11} _{-0.11}	45.31 ^{+0.12} _{-0.12}	5.12E+37	1.34E+35
3306	58732.988265530	563.0 ^{+1.2} _{-1.2}	2.0 ^{+0.5} _{-0.5}	62 ⁺⁴ ₋₄	1340	15.98 ^{+0.13} _{-0.13}	31.51 ^{+0.07} _{-0.07}	3.56E+37	7.64E+34
3307	58732.988287973	563.2 ^{+1.3} _{-1.3}	3.8 ^{+0.6} _{-0.6}	283 ⁺⁵⁰ ₋₅₀	1212	7.61 ^{+0.06} _{-0.06}	29.08 ^{+0.25} _{-0.25}	3.11E+37	2.71E+35
3308	58732.988288037	563.0 ^{+1.2} _{-1.2}	1.5 ^{+0.5} _{-0.5}	71 ⁺²⁴ ₋₂₄	1357	9.67 ^{+0.08} _{-0.08}	14.47 ^{+0.04} _{-0.04}	1.63E+37	4.43E+34
3309	58732.988496393	562.8 ^{+1.4} _{-1.4}	3.8 ^{+1.3} _{-1.3}	63 ⁺²⁹ ₋₂₉	1326	12.74 ^{+0.11} _{-0.11}	48.10 ^{+0.14} _{-0.14}	5.44E+37	1.61E+35
3310	58732.988706118	563.1 ^{+1.0} _{-1.0}	5.2 ^{+1.3} _{-1.3}	112 ⁺⁸ ₋₈	1373	12.52 ^{+0.10} _{-0.10}	64.68 ^{+0.14} _{-0.14}	7.31E+37	1.54E+35
3311	58732.988797329	562.1 ^{+1.1} _{-1.1}	3.6 ^{+1.4} _{-1.4}	245 ⁺⁴ ₋₄	1214	11.04 ^{+0.09} _{-0.09}	39.98 ^{+0.14} _{-0.14}	4.52E+37	1.54E+35
3312	58732.988815394	563.0 ^{+1.3} _{-1.3}	5.7 ^{+2.5} _{-2.5}	66 ⁺³¹ ₋₃₁	1129	10.87 ^{+0.08} _{-0.08}	61.44 ^{+0.21} _{-0.21}	6.94E+37	2.35E+35
3313	58732.988815755	563.1 ^{+0.8} _{-0.8}	3.0 ^{+0.4} _{-0.4}	170 ⁺²³ ₋₂₃	1274	15.25 ^{+0.12} _{-0.12}	45.85 ^{+0.40} _{-0.40}	4.91E+37	4.31E+35
3314	58732.988882393	562.9 ^{+1.7} _{-1.7}	3.9 ^{+0.6} _{-0.6}	53 ⁺²³ ₋₂₃	1423	11.91 ^{+0.09} _{-0.09}	45.99 ^{+0.40} _{-0.40}	4.92E+37	4.30E+35
3315	58732.988882821	563.5 ^{+1.4} _{-1.4}	4.4 ^{+1.3} _{-1.3}	144 ⁺⁵ ₋₅	1300	9.90 ^{+0.09} _{-0.09}	43.33 ^{+0.11} _{-0.11}	4.90E+37	1.28E+35
3316	58732.988946585	563.6 ^{+1.0} _{-1.0}	3.8 ^{+1.6} _{-1.6}	192 ⁺⁸ ₋₈	1206	7.53 ^{+0.06} _{-0.06}	28.73 ^{+0.10} _{-0.10}	3.25E+37	1.08E+35
3317	58732.989175222	562.7 ^{+1.1} _{-1.1}	10.9 ^{+3.5} _{-3.5}	73 ⁺²⁹ ₋₂₉	1397	12.09 ^{+0.10} _{-0.10}	132.03 ^{+0.35} _{-0.35}	1.49E+38	3.96E+35
3318	58732.989175397	562.7 ^{+1.1} _{-1.1}	6.3 ^{+0.9} _{-0.9}	89 ⁺¹² ₋₁₂	1340	3.58 ^{+0.03} _{-0.03}	22.48 ^{+0.19} _{-0.19}	2.41E+37	2.08E+35
3319	58732.989175902	562.5 ^{+1.2} _{-1.2}	5.5 ^{+2.0} _{-2.0}	106 ⁺⁵ ₋₅	1295	12.05 ^{+0.10} _{-0.10}	65.97 ^{+0.20} _{-0.20}	7.45E+37	2.21E+35
3320	58732.989176060	562.9 ^{+1.6} _{-1.6}	1.8 ^{+1.7} _{-1.7}	39 ⁺⁴ ₋₄	1437	6.64 ^{+0.06} _{-0.06}	12.03 ^{+0.10} _{-0.10}	1.36E+37	1.08E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3321	58732.989413663	562.6 ^{+1.3} _{-1.3}	4.0 ^{+1.0} _{-1.0}	162 ⁺⁸⁵ ₋₈₅	1202	14.02 ^{+0.12} _{-0.12}	56.73 ^{+0.12} _{-0.12}	6.41E+37	1.35E+35
3322	58732.989415701	563.4 ^{+1.1} _{-1.1}	1.4 ^{+0.6} _{-0.6}	274 ⁺¹⁷⁶ ₋₁₇₆	1183	11.94 ^{+0.10} _{-0.10}	17.25 ^{+0.06} _{-0.06}	1.95E+37	6.30E+34
3323	58732.989652130	562.7 ^{+1.3} _{-1.3}	3.1 ^{+0.7} _{-0.7}	48 ⁺³ ₋₃	1423	11.52 ^{+0.09} _{-0.09}	36.02 ^{+0.06} _{-0.06}	4.07E+37	7.09E+34
3324	58732.989679850	562.9 ^{+1.3} _{-1.3}	3.8 ^{+0.9} _{-0.9}	174 ⁺⁷⁸ ₋₇₈	1329	11.23 ^{+0.09} _{-0.09}	42.67 ^{+0.08} _{-0.08}	4.82E+37	9.17E+34
3325	58732.989742846	565.3 ^{+0.6} _{-0.6}	3.3 ^{+0.5} _{-0.5}	152 ⁺²³ ₋₂₃	1396	12.49 ^{+0.10} _{-0.10}	41.77 ^{+0.37} _{-0.37}	4.47E+37	3.93E+35
3326	58732.989780286	563.8 ^{+1.1} _{-1.1}	5.5 ^{+2.5} _{-2.5}	76 ⁺³ ₋₃	1385	8.37 ^{+0.07} _{-0.07}	46.08 ^{+0.16} _{-0.16}	5.21E+37	1.84E+35
3327	58732.989797150	563.2 ^{+0.7} _{-0.7}	1.4 ^{+0.3} _{-0.3}	47 ⁺²⁷ ₋₂₇	1391	15.74 ^{+0.14} _{-0.14}	22.74 ^{+0.04} _{-0.04}	2.57E+37	4.41E+34
3328	58732.990039284	563.1 ^{+1.2} _{-1.2}	3.7 ^{+0.5} _{-0.5}	97 ⁺²⁷ ₋₂₇	1384	3.35 ^{+0.03} _{-0.03}	12.53 ^{+0.11} _{-0.11}	1.34E+37	1.19E+35
3329	58732.990091802	564.1 ^{+1.1} _{-1.1}	4.9 ^{+1.5} _{-1.5}	67 ⁺¹⁰ ₋₁₀	1338	10.29 ^{+0.09} _{-0.09}	50.47 ^{+0.13} _{-0.13}	5.70E+37	1.50E+35
3330	58732.990323079	563.1 ^{+1.3} _{-1.3}	4.3 ^{+1.5} _{-1.5}	92 ⁺¹⁰⁴ ₋₁₀₄	1382	13.74 ^{+0.12} _{-0.12}	58.86 ^{+0.18} _{-0.18}	6.65E+37	2.03E+35
3331	58732.990341173	563.2 ^{+1.2} _{-1.2}	3.3 ^{+1.6} _{-1.6}	73 ⁺³ ₋₃	1374	7.65 ^{+0.06} _{-0.06}	24.96 ^{+0.10} _{-0.10}	2.82E+37	1.12E+35
3332	58732.990415123	563.3 ^{+1.2} _{-1.2}	5.6 ^{+1.9} _{-1.9}	64 ⁺²⁶ ₋₂₆	1317	10.51 ^{+0.09} _{-0.09}	59.32 ^{+0.16} _{-0.16}	6.70E+37	1.80E+35
3333	58732.990415253	563.3 ^{+1.1} _{-1.1}	4.0 ^{+2.1} _{-2.1}	77 ⁺¹⁴ ₋₁₄	1276	9.07 ^{+0.07} _{-0.07}	35.86 ^{+0.15} _{-0.15}	4.05E+37	1.71E+35
3334	58732.990514798	562.8 ^{+1.2} _{-1.2}	2.5 ^{+1.0} _{-1.0}	91 ⁺⁷ ₋₇	1286	9.68 ^{+0.08} _{-0.08}	24.18 ^{+0.08} _{-0.08}	2.73E+37	8.69E+34
3335	58732.990530481	563.3 ^{+0.7} _{-0.7}	6.7 ^{+1.0} _{-1.0}	148 ⁺⁵⁴ ₋₅₄	1268	16.60 ^{+0.13} _{-0.13}	110.63 ^{+0.98} _{-0.98}	1.18E+38	1.05E+36
3336	58732.990530631	563.5 ^{+0.5} _{-0.5}	5.9 ^{+1.7} _{-1.7}	70 ⁺¹⁰ ₋₁₀	1425	11.94 ^{+0.10} _{-0.10}	70.32 ^{+0.18} _{-0.18}	7.95E+37	2.04E+35
3337	58732.990543366	563.2 ^{+1.1} _{-1.1}	3.8 ^{+1.4} _{-1.4}	115 ⁺⁴¹ ₋₄₁	1165	7.77 ^{+0.06} _{-0.06}	29.31 ^{+0.09} _{-0.09}	3.31E+37	1.01E+35
3338	58732.990550451	563.2 ^{+1.3} _{-1.3}	5.7 ^{+0.8} _{-0.8}	40 ⁺¹¹ ₋₁₁	1414	11.18 ^{+0.09} _{-0.09}	64.18 ^{+0.57} _{-0.57}	6.87E+37	6.12E+35
3339	58732.990795017	564.0 ^{+1.2} _{-1.2}	3.1 ^{+0.4} _{-0.4}	216 ⁺⁹³ ₋₉₃	1332	12.15 ^{+0.09} _{-0.09}	37.78 ^{+0.33} _{-0.33}	4.04E+37	3.58E+35
3340	58732.990796420	563.1 ^{+1.3} _{-1.3}	4.8 ^{+1.7} _{-1.7}	71 ⁺³ ₋₃	1380	10.01 ^{+0.09} _{-0.09}	47.96 ^{+0.15} _{-0.15}	5.42E+37	1.65E+35
3341	58732.991157152	563.1 ^{+1.2} _{-1.2}	1.7 ^{+0.3} _{-0.3}	187 ⁺⁵⁵ ₋₅₅	1323	25.76 ^{+0.21} _{-0.21}	43.57 ^{+0.06} _{-0.06}	4.92E+37	6.73E+34
3342	58732.991250145	563.2 ^{+1.3} _{-1.3}	4.3 ^{+1.7} _{-1.7}	56 ⁺³³ ₋₃₃	1382	9.24 ^{+0.07} _{-0.07}	39.88 ^{+0.13} _{-0.13}	4.51E+37	1.43E+35
3343	58732.991310711	562.2 ^{+0.3} _{-0.3}	4.9 ^{+0.7} _{-0.7}	230 ⁺⁵¹ ₋₅₁	1167	15.98 ^{+0.12} _{-0.12}	78.80 ^{+0.70} _{-0.70}	8.44E+37	7.49E+35
3344	58732.991447007	563.2 ^{+1.3} _{-1.3}	9.3 ^{+3.7} _{-3.7}	193 ⁺²⁰ ₋₂₀	1247	17.24 ^{+0.15} _{-0.15}	159.88 ^{+0.57} _{-0.57}	1.81E+38	6.42E+35
3345	58732.991531757	562.9 ^{+1.2} _{-1.2}	3.7 ^{+4.1} _{-4.1}	50 ⁺⁴ ₋₄	1421	5.83 ^{+0.05} _{-0.05}	21.62 ^{+0.22} _{-0.22}	2.44E+37	2.43E+35
3346	58732.991554226	562.9 ^{+1.4} _{-1.4}	1.7 ^{+1.1} _{-1.1}	64 ⁺⁴⁶ ₋₄₆	1138	8.82 ^{+0.07} _{-0.07}	14.92 ^{+0.08} _{-0.08}	1.69E+37	8.55E+34
3347	58732.991750851	563.3 ^{+1.2} _{-1.2}	3.3 ^{+0.5} _{-0.5}	73 ⁺⁴ ₋₄	1408	6.54 ^{+0.05} _{-0.05}	21.44 ^{+0.19} _{-0.19}	2.29E+37	2.05E+35
3348	58732.991979986	563.4 ^{+1.3} _{-1.3}	1.6 ^{+0.5} _{-0.5}	213 ⁺⁸⁸ ₋₈₈	1198	10.12 ^{+0.08} _{-0.08}	16.51 ^{+0.04} _{-0.04}	1.87E+37	4.61E+34
3349	58732.992143703	563.4 ^{+1.3} _{-1.3}	7.5 ^{+1.1} _{-1.1}	71 ⁺¹⁶ ₋₁₆	1408	7.67 ^{+0.06} _{-0.06}	57.89 ^{+0.52} _{-0.52}	6.20E+37	5.54E+35
3350	58732.992314570	563.2 ^{+1.2} _{-1.2}	7.6 ^{+3.0} _{-3.0}	132 ⁺³⁴ ₋₃₄	1338	9.41 ^{+0.08} _{-0.08}	71.27 ^{+0.25} _{-0.25}	8.05E+37	2.83E+35
3351	58732.992314851	562.8 ^{+1.1} _{-1.1}	2.8 ^{+1.3} _{-1.3}	227 ⁺²¹ ₋₂₁	1167	9.79 ^{+0.09} _{-0.09}	27.05 ^{+0.11} _{-0.11}	3.06E+37	1.30E+35
3352	58732.992327618	562.9 ^{+1.3} _{-1.3}	3.9 ^{+0.1} _{-0.1}	400 ⁺²³ ₋₂₃	1299	117.21 ^{+0.98} _{-0.98}	454.29 ^{+0.10} _{-0.10}	5.13E+38	1.12E+35
3353	58733.898233462	563.9 ^{+0.9} _{-0.9}	1.9 ^{+0.3} _{-0.3}	122 ⁺¹⁰⁶ ₋₁₀₆	1339	7.44 ^{+0.09} _{-0.09}	14.35 ^{+0.03} _{-0.03}	1.62E+37	3.01E+34
3354	58733.898370475	563.7 ^{+1.2} _{-1.2}	6.0 ^{+2.0} _{-2.0}	53 ⁺³ ₋₃	1381	5.47 ^{+0.07} _{-0.07}	32.81 ^{+0.14} _{-0.14}	3.71E+37	1.54E+35
3355	58733.899818053	563.4 ^{+1.2} _{-1.2}	3.3 ^{+0.4} _{-0.4}	59 ⁺³¹ ₋₃₁	1382	6.75 ^{+0.08} _{-0.08}	22.34 ^{+0.03} _{-0.03}	2.52E+37	3.85E+34
3356	58733.900016544	565.0 ^{+0.7} _{-0.7}	4.5 ^{+0.5} _{-0.5}	102 ⁺²³ ₋₂₃	1149	10.26 ^{+0.12} _{-0.12}	46.14 ^{+0.07} _{-0.07}	5.21E+37	7.68E+34
3357	58733.900016682	563.8 ^{+1.1} _{-1.1}	6.0 ^{+2.8} _{-2.8}	201 ⁺¹³⁷ ₋₁₃₇	1141	3.53 ^{+0.04} _{-0.04}	21.29 ^{+0.12} _{-0.12}	2.41E+37	1.35E+35
3358	58733.900107611	565.2 ^{+0.8} _{-0.8}	3.4 ^{+0.5} _{-0.5}	124 ⁺²⁴ ₋₂₄	1418	64.74 ^{+6.62} _{-6.62}	218.17 ^{+3.11} _{-3.11}	2.34E+38	3.33E+36
3359	58733.900362679	564.1 ^{+0.6} _{-0.6}	5.3 ^{+0.6} _{-0.6}	142 ⁺⁴⁰ ₋₄₀	1395	11.47 ^{+0.14} _{-0.14}	61.13 ^{+0.08} _{-0.08}	6.91E+37	9.08E+34
3360	58733.900708757	564.2 ^{+1.2} _{-1.2}	5.8 ^{+0.7} _{-0.7}	141 ⁺³⁰ ₋₃₀	1395	11.50 ^{+0.14} _{-0.14}	66.19 ^{+0.09} _{-0.09}	7.48E+37	1.06E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3361	58733.900849921	564.4 ^{+0.9} _{-0.9}	3.9 ^{+0.6} _{-0.6}	97 ⁺¹⁴ ₋₁₄	1386	10.39 ^{+0.12} _{-0.12}	40.17 ^{+0.08} _{-0.08}	4.54E+37	9.00E+34
3362	58733.900850045	564.0 ^{+0.4} _{-0.4}	6.3 ^{+1.1} _{-1.1}	236 ⁺⁵¹ ₋₅₁	1199	11.42 ^{+0.14} _{-0.14}	72.23 ^{+0.15} _{-0.15}	8.16E+37	1.67E+35
3363	58733.900850190	563.6 ^{+0.5} _{-0.5}	3.7 ^{+0.4} _{-0.4}	316 ⁺³⁵ ₋₃₅	1324	19.23 ^{+0.23} _{-0.23}	71.59 ^{+0.09} _{-0.09}	8.09E+37	9.73E+34
3364	58733.900850711	563.3 ^{+1.2} _{-1.2}	8.1 ^{+1.6} _{-1.6}	54 ⁺¹⁸ ₋₁₈	1395	5.33 ^{+0.06} _{-0.06}	43.26 ^{+0.10} _{-0.10}	4.89E+37	1.18E+35
3365	58733.901002885	562.9 ^{+1.1} _{-1.1}	2.4 ^{+0.6} _{-0.6}	32 ⁺⁴ ₋₄	1386	4.54 ^{+0.06} _{-0.06}	10.94 ^{+0.03} _{-0.03}	1.24E+37	3.87E+34
3366	58733.901498129	563.3 ^{+1.2} _{-1.2}	4.8 ^{+1.1} _{-1.1}	63 ⁺⁵ ₋₅	1376	6.07 ^{+0.07} _{-0.07}	28.96 ^{+0.08} _{-0.08}	3.27E+37	9.22E+34
3367	58733.901791760	563.6 ^{+0.0} _{-0.0}	4.2 ^{+0.0} _{-0.0}	497 ⁺¹ ₋₁	1251	861.12 ^{+7.71} _{-7.71}	3625.32 ^{+0.31} _{-0.31}	3.88E+39	3.30E+35
3368	58733.901791903	563.6 ^{+0.0} _{-0.0}	4.4 ^{+0.1} _{-0.1}	340 ⁺⁹⁹ ₋₉₉	1329	327.06 ^{+7.57} _{-7.57}	1432.52 ^{+0.91} _{-0.91}	1.53E+39	9.72E+35
3369	58733.901818754	562.7 ^{+1.2} _{-1.2}	2.5 ^{+0.5} _{-0.5}	128 ⁺³⁰ ₋₃₀	1401	8.94 ^{+0.11} _{-0.11}	22.26 ^{+0.05} _{-0.05}	2.51E+37	6.11E+34
3370	58733.901818983	563.7 ^{+1.1} _{-1.1}	2.6 ^{+0.4} _{-0.4}	125 ⁺⁶⁴ ₋₆₄	1334	10.59 ^{+0.13} _{-0.13}	27.01 ^{+0.06} _{-0.06}	3.05E+37	6.29E+34
3371	58733.901980768	564.0 ^{+1.1} _{-1.1}	4.2 ^{+0.5} _{-0.5}	184 ⁺²⁸ ₋₂₈	1141	12.28 ^{+0.15} _{-0.15}	51.78 ^{+0.07} _{-0.07}	5.85E+37	8.12E+34
3372	58733.902120979	564.7 ^{+0.8} _{-0.8}	5.1 ^{+0.5} _{-0.5}	108 ⁺³¹ ₋₃₁	1388	11.57 ^{+0.14} _{-0.14}	58.53 ^{+0.07} _{-0.07}	6.61E+37	8.41E+34
3373	58733.902494550	562.9 ^{+1.2} _{-1.2}	5.4 ^{+0.9} _{-0.9}	54 ⁺¹⁷ ₋₁₇	1340	7.24 ^{+0.09} _{-0.09}	38.85 ^{+0.08} _{-0.08}	4.39E+37	8.95E+34
3374	58733.902494700	562.9 ^{+1.2} _{-1.2}	7.2 ^{+1.6} _{-1.6}	49 ⁺⁴ ₋₄	1430	5.95 ^{+0.07} _{-0.07}	42.51 ^{+0.11} _{-0.11}	4.80E+37	1.28E+35
3375	58733.902494885	562.9 ^{+1.2} _{-1.2}	4.6 ^{+0.9} _{-0.9}	96 ⁺³² ₋₃₂	1431	6.98 ^{+0.08} _{-0.08}	32.47 ^{+0.08} _{-0.08}	3.67E+37	8.68E+34
3376	58733.902555481	564.5 ^{+0.9} _{-0.9}	7.6 ^{+0.4} _{-0.4}	256 ⁺²² ₋₂₂	1278	97.26 ^{+4.55} _{-4.55}	742.09 ^{+1.91} _{-1.91}	7.94E+38	2.05E+36
3377	58733.902555497	564.5 ^{+0.9} _{-0.9}	3.4 ^{+0.1} _{-0.1}	294 ⁺²⁵ ₋₂₅	1281	325.54 ^{+6.65} _{-6.65}	1113.35 ^{+0.53} _{-0.53}	1.19E+39	5.69E+35
3378	58733.902571301	564.9 ^{+0.3} _{-0.3}	2.8 ^{+0.1} _{-0.1}	280 ⁺⁵ ₋₅	1359	675.20 ^{+4.50} _{-4.50}	1890.56 ^{+0.32} _{-0.32}	2.02E+39	3.37E+35
3379	58733.902571303	564.9 ^{+0.3} _{-0.3}	2.8 ^{+0.1} _{-0.1}	279 ⁺⁶ ₋₆	1360	676.30 ^{+4.50} _{-4.50}	1893.64 ^{+0.32} _{-0.32}	2.03E+39	3.37E+35
3380	58733.902691536	563.1 ^{+1.3} _{-1.3}	3.8 ^{+0.4} _{-0.4}	93 ⁺³⁸ ₋₃₈	1428	13.05 ^{+0.15} _{-0.15}	49.27 ^{+0.06} _{-0.06}	5.57E+37	7.32E+34
3381	58733.903142765	565.5 ^{+0.5} _{-0.5}	4.2 ^{+0.6} _{-0.6}	167 ⁺³² ₋₃₂	1336	54.62 ^{+6.11} _{-6.11}	227.22 ^{+3.36} _{-3.36}	2.43E+38	3.60E+36
3382	58733.903142875	565.7 ^{+0.6} _{-0.6}	4.8 ^{+0.4} _{-0.4}	240 ⁺³⁹ ₋₃₉	1310	80.01 ^{+5.69} _{-5.69}	384.05 ^{+2.28} _{-2.28}	4.11E+38	2.44E+36
3383	58733.903143116	561.9 ^{+1.1} _{-1.1}	3.8 ^{+1.6} _{-1.6}	91 ⁺³ ₋₃	1370	5.11 ^{+0.06} _{-0.06}	19.19 ^{+0.10} _{-0.10}	2.17E+37	1.10E+35
3384	58733.903442275	563.1 ^{+1.4} _{-1.4}	10.8 ^{+2.3} _{-2.3}	87 ⁺⁵⁷ ₋₅₇	1329	6.11 ^{+0.07} _{-0.07}	66.12 ^{+0.17} _{-0.17}	7.47E+37	1.87E+35
3385	58733.903479583	563.1 ^{+1.1} _{-1.1}	8.2 ^{+1.2} _{-1.2}	125 ⁺¹⁰ ₋₁₀	1099	13.69 ^{+0.16} _{-0.16}	111.86 ^{+1.50} _{-1.50}	1.20E+38	1.61E+36
3386	58733.903648981	563.6 ^{+1.3} _{-1.3}	3.9 ^{+0.9} _{-0.9}	123 ⁺⁸⁷ ₋₈₇	1378	6.63 ^{+0.08} _{-0.08}	25.69 ^{+0.07} _{-0.07}	2.90E+37	8.33E+34
3387	58733.903650207	560.9 ^{+0.1} _{-0.1}	5.6 ^{+1.6} _{-1.6}	100 ⁺¹⁰ ₋₁₀	1436	7.08 ^{+0.08} _{-0.08}	39.50 ^{+0.13} _{-0.13}	4.46E+37	1.50E+35
3388	58733.903650411	562.9 ^{+1.0} _{-1.0}	4.9 ^{+1.1} _{-1.1}	71 ⁺⁸ ₋₈	1417	5.02 ^{+0.06} _{-0.06}	24.43 ^{+0.07} _{-0.07}	2.76E+37	7.63E+34
3389	58733.903798218	562.8 ^{+1.0} _{-1.0}	6.3 ^{+2.7} _{-2.7}	198 ⁺⁷⁵ ₋₇₅	1242	3.27 ^{+0.04} _{-0.04}	20.59 ^{+0.10} _{-0.10}	2.33E+37	1.18E+35
3390	58733.903897563	564.3 ^{+0.5} _{-0.5}	4.3 ^{+0.4} _{-0.4}	350 ⁺⁴³ ₋₄₃	1303	13.00 ^{+0.15} _{-0.15}	55.59 ^{+0.06} _{-0.06}	6.28E+37	6.50E+34
3391	58733.903897686	564.3 ^{+0.6} _{-0.6}	2.7 ^{+1.0} _{-1.0}	264 ⁺⁶ ₋₆	1219	3.74 ^{+0.04} _{-0.04}	9.98 ^{+0.05} _{-0.05}	1.13E+37	5.16E+34
3392	58733.904031953	564.7 ^{+1.2} _{-1.2}	5.9 ^{+0.5} _{-0.5}	96 ⁺²⁸ ₋₂₈	1382	15.85 ^{+0.19} _{-0.19}	93.07 ^{+0.09} _{-0.09}	1.05E+38	9.79E+34
3393	58733.904163796	563.8 ^{+1.1} _{-1.1}	3.8 ^{+0.6} _{-0.6}	103 ⁺³³ ₋₃₃	1282	10.70 ^{+0.13} _{-0.13}	40.75 ^{+0.07} _{-0.07}	4.60E+37	8.16E+34
3394	58733.904459050	564.2 ^{+0.9} _{-0.9}	5.7 ^{+0.9} _{-0.9}	98 ⁺²⁸ ₋₂₈	1327	6.69 ^{+0.08} _{-0.08}	38.27 ^{+0.07} _{-0.07}	4.32E+37	8.45E+34
3395	58733.904706547	564.3 ^{+0.9} _{-0.9}	3.6 ^{+0.5} _{-0.5}	174 ⁺²⁶ ₋₂₆	1396	12.13 ^{+0.14} _{-0.14}	43.81 ^{+0.08} _{-0.08}	4.95E+37	8.62E+34
3396	58733.904718274	563.8 ^{+1.1} _{-1.1}	3.4 ^{+0.7} _{-0.7}	145 ⁺³¹ ₋₃₁	1402	10.08 ^{+0.12} _{-0.12}	34.00 ^{+0.08} _{-0.08}	3.84E+37	8.84E+34
3397	58733.905011443	564.4 ^{+1.1} _{-1.1}	4.9 ^{+0.8} _{-0.8}	172 ⁺⁶⁴ ₋₆₄	1309	12.45 ^{+0.14} _{-0.14}	60.96 ^{+0.11} _{-0.11}	6.89E+37	1.30E+35
3398	58733.905187792	564.5 ^{+1.2} _{-1.2}	2.8 ^{+0.3} _{-0.3}	93 ⁺²⁹ ₋₂₉	1200	12.29 ^{+0.14} _{-0.14}	33.91 ^{+0.04} _{-0.04}	3.83E+37	4.65E+34
3399	58733.905208709	563.5 ^{+1.3} _{-1.3}	6.1 ^{+1.4} _{-1.4}	50 ⁺²⁷ ₋₂₇	1413	7.63 ^{+0.09} _{-0.09}	46.42 ^{+0.12} _{-0.12}	5.25E+37	1.38E+35
3400	58733.905288269	563.3 ^{+1.0} _{-1.0}	7.3 ^{+1.1} _{-1.1}	120 ⁺³¹ ₋₃₁	1259	8.07 ^{+0.09} _{-0.09}	58.73 ^{+0.11} _{-0.11}	6.64E+37	1.19E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3401	58733.905338125	564.3 ^{+0.0} _{-0.0}	2.7 ^{+0.0} _{-0.0}	488 ⁺⁴ ₋₄	1255	842.39 ^{+7.33} _{-7.33}	2249.18 ^{+0.22} _{-0.22}	2.41E+39	2.35E+35
3402	58733.905454023	562.9 ^{+1.2} _{-1.2}	9.4 ^{+1.7} _{-1.7}	108 ⁺³³ ₋₃₃	1107	7.45 ^{+0.09} _{-0.09}	70.08 ^{+0.15} _{-0.15}	7.92E+37	1.69E+35
3403	58733.905801474	562.6 ^{+1.0} _{-1.0}	8.1 ^{+1.1} _{-1.1}	206 ⁺⁶⁵ ₋₆₅	1349	9.83 ^{+0.11} _{-0.11}	79.62 ^{+0.12} _{-0.12}	9.00E+37	1.39E+35
3404	58733.905955499	564.8 ^{+0.7} _{-0.7}	7.1 ^{+0.5} _{-0.5}	249 ⁺¹¹ ₋₁₁	1304	70.43 ^{+4.32} _{-4.32}	500.05 ^{+2.25} _{-2.25}	5.35E+38	2.40E+36
3405	58733.905955514	564.8 ^{+0.7} _{-0.7}	7.1 ^{+0.6} _{-0.6}	248 ⁺¹⁵ ₋₁₅	1297	70.80 ^{+4.50} _{-4.50}	502.68 ^{+2.70} _{-2.70}	5.38E+38	2.89E+36
3406	58733.906162136	564.0 ^{+0.8} _{-0.8}	5.5 ^{+0.9} _{-0.9}	117 ⁺¹⁹ ₋₁₉	1408	9.86 ^{+0.11} _{-0.11}	54.13 ^{+0.10} _{-0.10}	6.12E+37	1.15E+35
3407	58733.906162524	563.3 ^{+1.2} _{-1.2}	6.5 ^{+1.7} _{-1.7}	202 ⁺⁴⁹ ₋₄₉	1177	3.26 ^{+0.04} _{-0.04}	21.20 ^{+0.06} _{-0.06}	2.40E+37	7.24E+34
3408	58733.906571880	565.7 ^{+0.5} _{-0.5}	4.4 ^{+0.5} _{-0.5}	145 ⁺²¹ ₋₂₁	1407	12.38 ^{+0.14} _{-0.14}	53.88 ^{+0.08} _{-0.08}	6.09E+37	8.75E+34
3409	58733.906606090	563.5 ^{+0.5} _{-0.5}	4.5 ^{+0.4} _{-0.4}	230 ⁺⁹ ₋₉	1375	65.30 ^{+4.20} _{-4.20}	293.85 ^{+1.68} _{-1.68}	3.15E+38	1.80E+36
3410	58733.906606093	563.5 ^{+0.5} _{-0.5}	9.7 ^{+0.4} _{-0.4}	246 ⁺⁹ ₋₉	1364	161.34 ^{+4.05} _{-4.05}	1568.22 ^{+1.74} _{-1.74}	1.68E+39	1.86E+36
3411	58733.906606207	563.5 ^{+0.5} _{-0.5}	5.9 ^{+0.5} _{-0.5}	219 ⁺¹⁴ ₋₁₄	1313	95.16 ^{+5.44} _{-5.44}	564.30 ^{+2.61} _{-2.61}	6.04E+38	2.80E+36
3412	58733.906826780	562.9 ^{+1.4} _{-1.4}	3.5 ^{+1.1} _{-1.1}	101 ⁺²⁵ ₋₂₅	1139	4.74 ^{+0.05} _{-0.05}	16.49 ^{+0.06} _{-0.06}	1.86E+37	6.62E+34
3413	58733.906827498	563.4 ^{+1.2} _{-1.2}	6.4 ^{+1.2} _{-1.2}	172 ⁺⁹ ₋₉	1392	10.16 ^{+0.12} _{-0.12}	65.29 ^{+0.14} _{-0.14}	7.38E+37	1.56E+35
3414	58733.907156146	562.1 ^{+1.2} _{-1.2}	6.6 ^{+1.4} _{-1.4}	92 ⁺¹⁷ ₋₁₇	1162	8.74 ^{+0.10} _{-0.10}	57.93 ^{+0.15} _{-0.15}	6.55E+37	1.65E+35
3415	58733.907156944	561.9 ^{+1.2} _{-1.2}	3.2 ^{+0.6} _{-0.6}	64 ⁺²¹ ₋₂₁	1115	10.26 ^{+0.12} _{-0.12}	32.69 ^{+0.07} _{-0.07}	3.69E+37	8.16E+34
3416	58733.907182080	563.8 ^{+1.0} _{-1.0}	4.1 ^{+0.7} _{-0.7}	160 ⁺¹⁹ ₋₁₉	1378	10.48 ^{+0.12} _{-0.12}	42.77 ^{+0.08} _{-0.08}	4.83E+37	9.12E+34
3417	58733.907188257	563.7 ^{+1.3} _{-1.3}	6.2 ^{+1.3} _{-1.3}	92 ⁺¹² ₋₁₂	1153	9.19 ^{+0.11} _{-0.11}	57.38 ^{+0.14} _{-0.14}	6.48E+37	1.61E+35
3418	58733.907941470	563.5 ^{+1.2} _{-1.2}	12.0 ^{+3.3} _{-3.3}	91 ⁺⁴⁹ ₋₄₉	1409	6.20 ^{+0.07} _{-0.07}	74.15 ^{+0.23} _{-0.23}	8.38E+37	2.58E+35
3419	58733.907956525	565.0 ^{+1.1} _{-1.1}	4.7 ^{+0.5} _{-0.5}	222 ⁺³³ ₋₃₃	1236	94.18 ^{+5.97} _{-5.97}	439.82 ^{+3.04} _{-3.04}	4.71E+38	3.26E+36
3420	58733.907956535	565.6 ^{+0.7} _{-0.7}	5.4 ^{+1.3} _{-1.3}	230 ⁺²¹ ₋₂₁	1242	44.56 ^{+5.10} _{-5.10}	242.85 ^{+6.48} _{-6.48}	2.60E+38	6.93E+36
3421	58733.908235954	564.7 ^{+0.8} _{-0.8}	3.4 ^{+0.5} _{-0.5}	103 ⁺⁶⁹ ₋₆₉	1344	11.70 ^{+0.13} _{-0.13}	39.29 ^{+0.06} _{-0.06}	4.44E+37	6.86E+34
3422	58733.908236400	562.8 ^{+1.2} _{-1.2}	2.8 ^{+1.0} _{-1.0}	60 ⁺²⁷ ₋₂₇	1349	4.67 ^{+0.05} _{-0.05}	13.24 ^{+0.05} _{-0.05}	1.50E+37	5.70E+34
3423	58733.908236823	560.9 ^{+0.5} _{-0.5}	4.7 ^{+2.4} _{-2.4}	94 ⁺⁷ ₋₇	1342	4.33 ^{+0.05} _{-0.05}	20.46 ^{+0.12} _{-0.12}	2.31E+37	1.34E+35
3424	58733.908236965	560.8 ^{+0.5} _{-0.5}	5.7 ^{+0.6} _{-0.6}	142 ⁺³¹ ₋₃₁	1420	11.95 ^{+0.14} _{-0.14}	67.97 ^{+0.09} _{-0.09}	7.68E+37	9.90E+34
3425	58733.908320154	564.6 ^{+1.0} _{-1.0}	5.4 ^{+0.6} _{-0.6}	88 ⁺²⁸ ₋₂₈	1287	9.92 ^{+0.11} _{-0.11}	53.75 ^{+0.07} _{-0.07}	6.07E+37	8.21E+34
3426	58733.908594271	563.6 ^{+0.9} _{-0.9}	6.2 ^{+1.3} _{-1.3}	108 ⁺⁶ ₋₆	1073	5.96 ^{+0.07} _{-0.07}	36.87 ^{+0.08} _{-0.08}	4.17E+37	9.51E+34
3427	58733.908986411	564.4 ^{+1.3} _{-1.3}	4.7 ^{+0.6} _{-0.6}	142 ⁺¹³ ₋₁₃	1398	12.59 ^{+0.14} _{-0.14}	58.87 ^{+0.09} _{-0.09}	6.65E+37	9.92E+34
3428	58733.909072419	565.1 ^{+0.3} _{-0.3}	2.7 ^{+0.4} _{-0.4}	104 ⁺⁴ ₋₄	1376	9.75 ^{+0.11} _{-0.11}	26.28 ^{+0.05} _{-0.05}	2.97E+37	5.54E+34
3429	58733.909072553	563.9 ^{+1.1} _{-1.1}	6.3 ^{+0.9} _{-0.9}	53 ⁺³⁸ ₋₃₈	1326	7.64 ^{+0.09} _{-0.09}	48.34 ^{+0.08} _{-0.08}	5.46E+37	8.81E+34
3430	58733.909782497	564.3 ^{+0.9} _{-0.9}	3.7 ^{+0.4} _{-0.4}	147 ⁺¹⁶ ₋₁₆	1374	13.03 ^{+0.15} _{-0.15}	48.17 ^{+0.06} _{-0.06}	5.44E+37	6.61E+34
3431	58733.909821701	562.5 ^{+1.3} _{-1.3}	4.3 ^{+1.0} _{-1.0}	113 ⁺²³ ₋₂₃	1407	6.56 ^{+0.07} _{-0.07}	28.51 ^{+0.07} _{-0.07}	3.22E+37	8.18E+34
3432	58733.910159276	563.9 ^{+1.1} _{-1.1}	6.2 ^{+1.5} _{-1.5}	72 ⁺³⁵ ₋₃₅	1388	6.56 ^{+0.07} _{-0.07}	40.77 ^{+0.11} _{-0.11}	4.61E+37	1.29E+35
3433	58733.910408883	563.4 ^{+0.8} _{-0.8}	6.0 ^{+0.3} _{-0.3}	310 ⁺²³ ₋₂₃	1164	97.35 ^{+4.71} _{-4.71}	579.23 ^{+1.60} _{-1.60}	6.20E+38	1.71E+36
3434	58733.910408885	563.4 ^{+0.8} _{-0.8}	6.0 ^{+0.3} _{-0.3}	324 ⁺²⁰ ₋₂₀	1169	97.35 ^{+4.71} _{-4.71}	579.23 ^{+1.60} _{-1.60}	6.20E+38	1.71E+36
3435	58733.910608395	563.0 ^{+0.3} _{-0.3}	4.2 ^{+0.6} _{-0.6}	120 ⁺¹⁴ ₋₁₄	1158	9.87 ^{+0.11} _{-0.11}	41.77 ^{+0.06} _{-0.06}	4.72E+37	7.19E+34
3436	58733.910613166	563.2 ^{+1.1} _{-1.1}	4.8 ^{+0.9} _{-0.9}	111 ⁺¹⁵ ₋₁₅	1412	9.02 ^{+0.10} _{-0.10}	43.40 ^{+0.09} _{-0.09}	4.90E+37	1.05E+35
3437	58733.910694516	563.2 ^{+1.3} _{-1.3}	4.8 ^{+1.4} _{-1.4}	124 ⁺¹⁶² ₋₁₆₂	1260	3.63 ^{+0.04} _{-0.04}	17.40 ^{+0.05} _{-0.05}	1.97E+37	6.18E+34
3438	58733.910795326	562.9 ^{+1.3} _{-1.3}	3.2 ^{+1.0} _{-1.0}	46 ⁺⁴ ₋₄	1070	4.39 ^{+0.05} _{-0.05}	13.99 ^{+0.05} _{-0.05}	1.58E+37	5.74E+34
3439	58733.912400666	562.6 ^{+0.7} _{-0.7}	2.9 ^{+1.0} _{-1.0}	226 ⁺¹⁴⁸ ₋₁₄₈	1173	6.36 ^{+0.07} _{-0.07}	18.59 ^{+0.07} _{-0.07}	2.10E+37	7.51E+34
3440	58733.912400803	563.6 ^{+0.4} _{-0.4}	4.7 ^{+0.6} _{-0.6}	179 ⁺¹⁷ ₋₁₇	1302	7.81 ^{+0.09} _{-0.09}	36.64 ^{+0.06} _{-0.06}	4.14E+37	6.24E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3441	58733.912400887	563.8 ^{+0.4} _{-0.4}	2.7 ^{+0.5} _{-0.5}	115 ⁺²⁵ ₋₂₅	1187	12.73 ^{+0.14} _{-0.14}	34.08 ^{+0.08} _{-0.08}	3.85E+37	8.65E+34
3442	58733.912401426	563.7 ^{+0.7} _{-0.7}	1.3 ^{+0.7} _{-0.7}	103 ⁺⁷⁰ ₋₇₀	1230	5.02 ^{+0.06} _{-0.06}	6.74 ^{+0.04} _{-0.04}	7.62E+36	4.52E+34
3443	58733.912401674	562.6 ^{+1.1} _{-1.1}	1.7 ^{+0.6} _{-0.6}	70 ⁺¹⁹ ₋₁₉	1111	4.01 ^{+0.04} _{-0.04}	6.85 ^{+0.02} _{-0.02}	7.74E+36	2.75E+34
3444	58733.912526785	563.0 ^{+0.2} _{-0.2}	4.1 ^{+0.3} _{-0.3}	336 ⁺¹⁴ ₋₁₄	1172	136.46 ^{+9.30} _{-9.30}	559.49 ^{+3.07} _{-3.07}	5.99E+38	3.29E+36
3445	58733.912526786	563.0 ^{+0.2} _{-0.2}	3.8 ^{+0.4} _{-0.4}	200 ⁺¹⁶¹ ₋₁₆₁	1145	133.10 ^{+8.90} _{-8.90}	505.78 ^{+3.65} _{-3.65}	5.41E+38	3.91E+36
3446	58733.912527062	565.1 ^{+0.2} _{-0.2}	3.4 ^{+0.3} _{-0.3}	454 ⁺²⁴ ₋₂₄	1236	168.71 ^{+9.51} _{-9.51}	575.30 ^{+2.57} _{-2.57}	6.16E+38	2.75E+36
3447	58733.912527066	565.1 ^{+0.2} _{-0.2}	2.8 ^{+0.9} _{-0.9}	451 ⁺¹⁵ ₋₁₅	1235	42.76 ^{+10.30} _{-10.30}	119.73 ^{+9.68} _{-9.68}	1.28E+38	1.04E+37
3448	58733.912775748	564.1 ^{+1.0} _{-1.0}	4.4 ^{+1.1} _{-1.1}	119 ⁺²³ ₋₂₃	1424	7.20 ^{+0.08} _{-0.08}	31.89 ^{+0.09} _{-0.09}	3.60E+37	9.81E+34
3449	58733.912874549	562.7 ^{+1.3} _{-1.3}	1.9 ^{+0.4} _{-0.4}	59 ⁺¹⁰ ₋₁₀	1422	11.01 ^{+0.12} _{-0.12}	20.97 ^{+0.04} _{-0.04}	2.37E+37	4.85E+34
3450	58733.912947468	563.3 ^{+0.5} _{-0.5}	10.0 ^{+0.5} _{-0.5}	165 ⁺⁹ ₋₉	1115	86.76 ^{+3.59} _{-3.59}	866.73 ^{+1.79} _{-1.79}	9.28E+38	1.92E+36
3451	58733.912947480	563.3 ^{+0.5} _{-0.5}	8.7 ^{+0.6} _{-0.6}	175 ⁺⁹ ₋₉	1114	84.30 ^{+3.20} _{-3.20}	733.41 ^{+1.92} _{-1.92}	7.85E+38	2.06E+36
3452	58733.913257621	562.9 ^{+0.0} _{-0.0}	1.3 ^{+0.0} _{-0.0}	496 ⁺⁵ ₋₅	1251	254.30 ^{+3.10} _{-3.10}	330.59 ^{+0.09} _{-0.09}	3.54E+38	9.96E+34
3453	58733.913257627	562.9 ^{+0.0} _{-0.0}	1.3 ^{+0.0} _{-0.0}	237 ⁺⁵⁸ ₋₅₈	1249	554.89 ^{+4.60} _{-4.60}	732.45 ^{+0.14} _{-0.14}	7.84E+38	1.48E+35
3454	58733.913595877	563.2 ^{+1.2} _{-1.2}	6.6 ^{+1.5} _{-1.5}	69 ⁺⁸ ₋₈	1068	6.66 ^{+0.07} _{-0.07}	43.70 ^{+0.11} _{-0.11}	4.94E+37	1.28E+35
3455	58733.913653305	564.0 ^{+0.1} _{-0.1}	2.2 ^{+0.1} _{-0.1}	412 ⁺²⁵ ₋₂₅	1289	244.26 ^{+7.99} _{-7.99}	532.49 ^{+0.64} _{-0.64}	5.70E+38	6.84E+35
3456	58733.913653309	564.0 ^{+0.1} _{-0.1}	2.1 ^{+0.1} _{-0.1}	101 ⁺⁵⁰ ₋₅₀	1309	243.16 ^{+7.10} _{-7.10}	510.64 ^{+0.50} _{-0.50}	5.47E+38	5.32E+35
3457	58733.913653621	563.5 ^{+1.7} _{-1.7}	6.2 ^{+1.2} _{-1.2}	98 ⁺⁷⁸ ₋₇₈	1320	9.50 ^{+0.10} _{-0.10}	58.47 ^{+0.12} _{-0.12}	6.61E+37	1.40E+35
3458	58733.913807957	563.5 ^{+1.3} _{-1.3}	7.0 ^{+0.8} _{-0.8}	176 ⁺¹¹ ₋₁₁	1389	46.76 ^{+4.55} _{-4.55}	326.85 ^{+3.69} _{-3.69}	3.50E+38	3.95E+36
3459	58733.913808049	564.2 ^{+1.2} _{-1.2}	4.9 ^{+1.2} _{-1.2}	179 ⁺²⁶ ₋₂₆	1161	7.79 ^{+0.09} _{-0.09}	38.06 ^{+0.10} _{-0.10}	4.30E+37	1.16E+35
3460	58733.913856472	563.4 ^{+1.2} _{-1.2}	4.6 ^{+0.7} _{-0.7}	129 ⁺³⁶ ₋₃₆	1125	4.79 ^{+0.05} _{-0.05}	22.00 ^{+0.27} _{-0.27}	2.36E+37	2.93E+35
3461	58733.914134874	564.2 ^{+0.2} _{-0.2}	3.2 ^{+0.2} _{-0.2}	138 ⁺⁹ ₋₉	1428	119.91 ^{+6.31} _{-6.31}	381.31 ^{+1.26} _{-1.26}	4.08E+38	1.35E+36
3462	58733.914134881	564.2 ^{+0.2} _{-0.2}	3.6 ^{+0.4} _{-0.4}	207 ⁺¹⁸ ₋₁₈	1395	110.20 ^{+5.20} _{-5.20}	396.72 ^{+2.08} _{-2.08}	4.25E+38	2.23E+36
3463	58733.914947045	564.0 ^{+1.2} _{-1.2}	3.9 ^{+0.6} _{-0.6}	88 ⁺³⁴ ₋₃₄	1296	11.99 ^{+0.13} _{-0.13}	47.30 ^{+0.07} _{-0.07}	5.34E+37	8.18E+34
3464	58733.915344203	562.7 ^{+1.3} _{-1.3}	5.7 ^{+2.4} _{-2.4}	83 ⁺²⁵ ₋₂₅	1442	5.76 ^{+0.06} _{-0.06}	33.04 ^{+0.15} _{-0.15}	3.73E+37	1.65E+35
3465	58733.915455915	562.6 ^{+1.3} _{-1.3}	4.3 ^{+1.6} _{-1.6}	61 ⁺³ ₋₃	1426	4.25 ^{+0.05} _{-0.05}	18.38 ^{+0.08} _{-0.08}	2.08E+37	8.52E+34
3466	58733.915456016	562.4 ^{+1.3} _{-1.3}	11.1 ^{+3.6} _{-3.6}	166 ⁺³⁰ ₋₃₀	1284	5.63 ^{+0.06} _{-0.06}	62.43 ^{+0.22} _{-0.22}	7.05E+37	2.50E+35
3467	58733.915624557	563.2 ^{+0.5} _{-0.5}	8.1 ^{+0.6} _{-0.6}	185 ⁺¹⁷ ₋₁₇	1358	70.56 ^{+4.10} _{-4.10}	568.71 ^{+2.30} _{-2.30}	6.09E+38	2.46E+36
3468	58733.915624562	563.2 ^{+0.5} _{-0.5}	6.0 ^{+0.4} _{-0.4}	235 ⁺¹³ ₋₁₃	1311	81.40 ^{+3.80} _{-3.80}	489.21 ^{+1.71} _{-1.71}	5.24E+38	1.83E+36
3469	58733.915667261	565.8 ^{+0.9} _{-0.9}	6.8 ^{+0.4} _{-0.4}	161 ⁺⁹ ₋₉	1414	92.14 ^{+4.36} _{-4.36}	630.24 ^{+1.66} _{-1.66}	6.75E+38	1.77E+36
3470	58733.915667292	564.8 ^{+0.9} _{-0.9}	4.8 ^{+0.3} _{-0.3}	200 ⁺¹² ₋₁₂	1393	73.10 ^{+3.30} _{-3.30}	350.88 ^{+1.02} _{-1.02}	3.76E+38	1.10E+36
3471	58733.916228704	564.2 ^{+0.9} _{-0.9}	4.2 ^{+0.6} _{-0.6}	45 ⁺⁴ ₋₄	1431	2.49 ^{+0.03} _{-0.03}	10.38 ^{+0.13} _{-0.13}	1.11E+37	1.38E+35
3472	58733.916228996	562.6 ^{+1.2} _{-1.2}	8.3 ^{+2.5} _{-2.5}	62 ⁺⁴ ₋₄	1379	5.12 ^{+0.06} _{-0.06}	42.24 ^{+0.14} _{-0.14}	4.77E+37	1.54E+35
3473	58733.916263040	563.8 ^{+1.1} _{-1.1}	4.7 ^{+0.8} _{-0.8}	130 ⁺³⁴ ₋₃₄	1379	8.82 ^{+0.09} _{-0.09}	41.32 ^{+0.07} _{-0.07}	4.67E+37	8.35E+34
3474	58733.916352752	563.1 ^{+1.2} _{-1.2}	4.5 ^{+1.0} _{-1.0}	55 ⁺²⁰ ₋₂₀	1416	6.34 ^{+0.07} _{-0.07}	28.78 ^{+0.06} _{-0.06}	3.25E+37	7.34E+34
3475	58733.916356203	563.3 ^{+1.3} _{-1.3}	6.1 ^{+1.6} _{-1.6}	73 ⁺⁴⁰ ₋₄₀	1385	5.19 ^{+0.06} _{-0.06}	31.83 ^{+0.09} _{-0.09}	3.60E+37	1.01E+35
3476	58733.916442733	564.1 ^{+1.0} _{-1.0}	2.5 ^{+0.7} _{-0.7}	45 ⁺²² ₋₂₂	1341	6.45 ^{+0.07} _{-0.07}	16.18 ^{+0.05} _{-0.05}	1.83E+37	5.78E+34
3477	58733.916493235	564.4 ^{+0.4} _{-0.4}	3.9 ^{+0.9} _{-0.9}	222 ⁺³¹ ₋₃₁	1129	8.62 ^{+0.09} _{-0.09}	33.41 ^{+0.08} _{-0.08}	3.78E+37	9.02E+34
3478	58733.916493393	564.2 ^{+0.4} _{-0.4}	3.5 ^{+0.4} _{-0.4}	310 ⁺⁸⁷ ₋₈₇	1206	10.92 ^{+0.12} _{-0.12}	38.43 ^{+0.05} _{-0.05}	4.34E+37	5.57E+34
3479	58733.916816988	564.6 ^{+0.8} _{-0.8}	2.4 ^{+0.3} _{-0.3}	70 ⁺²⁵ ₋₂₅	1405	13.26 ^{+0.14} _{-0.14}	31.67 ^{+0.04} _{-0.04}	3.58E+37	4.08E+34
3480	58733.916818372	563.1 ^{+1.3} _{-1.3}	9.5 ^{+0.9} _{-0.9}	114 ⁺¹⁴ ₋₁₄	1438	46.44 ^{+3.49} _{-3.49}	441.18 ^{+3.00} _{-3.00}	4.72E+38	3.21E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3481	58733.916818376	563.1 ^{+1.3} _{-1.3}	3.4 ^{+0.4} _{-0.4}	164 ⁺²⁶ ₋₂₆	1411	63.21 ^{+7.20} _{-7.20}	214.91 ^{+2.95} _{-2.95}	2.30E+38	3.16E+36
3482	58733.916855020	563.2 ^{+1.2} _{-1.2}	3.1 ^{+0.8} _{-0.8}	80 ⁺⁴ ₋₄	1422	6.26 ^{+0.07} _{-0.07}	19.15 ^{+0.05} _{-0.05}	2.16E+37	5.72E+34
3483	58733.916855975	563.8 ^{+1.1} _{-1.1}	4.9 ^{+1.5} _{-1.5}	49 ⁺⁴ ₋₄	1436	5.13 ^{+0.06} _{-0.06}	25.37 ^{+0.08} _{-0.08}	2.87E+37	9.50E+34
3484	58733.916856211	563.3 ^{+1.3} _{-1.3}	5.0 ^{+1.3} _{-1.3}	208 ⁺³⁷ ₋₃₇	1380	7.79 ^{+0.08} _{-0.08}	39.29 ^{+0.11} _{-0.11}	4.44E+37	1.24E+35
3485	58733.916856566	563.4 ^{+1.3} _{-1.3}	2.9 ^{+2.4} _{-2.4}	331 ⁺⁴ ₋₄	1279	2.92 ^{+0.03} _{-0.03}	8.53 ^{+0.07} _{-0.07}	9.64E+36	8.32E+34
3486	58733.917021555	565.2 ^{+0.6} _{-0.6}	2.4 ^{+0.3} _{-0.3}	146 ⁺²⁴ ₋₂₄	1351	67.15 ^{+7.40} _{-7.40}	164.52 ^{+2.37} _{-2.37}	1.76E+38	2.53E+36
3487	58733.917021781	564.3 ^{+0.2} _{-0.2}	6.0 ^{+2.2} _{-2.2}	118 ⁺¹⁴ ₋₁₄	1361	16.24 ^{+5.08} _{-5.08}	98.25 ^{+11.38} _{-11.38}	1.05E+38	1.22E+37
3488	58733.917022014	562.3 ^{+1.2} _{-1.2}	2.7 ^{+0.5} _{-0.5}	198 ⁺¹⁶ ₋₁₆	1151	50.53 ^{+7.30} _{-7.30}	138.45 ^{+3.36} _{-3.36}	1.48E+38	3.59E+36
3489	58733.917367952	562.8 ^{+1.2} _{-1.2}	13.7 ^{+4.6} _{-4.6}	80 ⁺³ ₋₃	1378	3.89 ^{+0.04} _{-0.04}	53.29 ^{+0.19} _{-0.19}	6.02E+37	2.11E+35
3490	58733.917471049	563.9 ^{+0.7} _{-0.7}	0.3 ^{+0.0} _{-0.0}	105 ⁺³³ ₋₃₃	1405	4.74 ^{+0.05} _{-0.05}	1.61 ^{+0.02} _{-0.02}	1.73E+36	2.08E+34
3491	58733.917471138	564.3 ^{+0.6} _{-0.6}	3.4 ^{+0.9} _{-0.9}	66 ⁺³⁴ ₋₃₄	1391	6.23 ^{+0.07} _{-0.07}	21.35 ^{+0.06} _{-0.06}	2.41E+37	6.95E+34
3492	58733.917560710	563.8 ^{+1.2} _{-1.2}	3.9 ^{+0.7} _{-0.7}	142 ⁺⁶ ₋₆	1238	7.99 ^{+0.09} _{-0.09}	31.03 ^{+0.06} _{-0.06}	3.51E+37	6.71E+34
3493	58733.917562945	563.1 ^{+1.0} _{-1.0}	4.1 ^{+0.7} _{-0.7}	172 ⁺³¹ ₋₃₁	1348	10.76 ^{+0.11} _{-0.11}	44.35 ^{+0.08} _{-0.08}	5.01E+37	8.91E+34
3494	58733.917935789	563.0 ^{+1.4} _{-1.4}	4.0 ^{+1.1} _{-1.1}	96 ⁺⁴⁴ ₋₄₄	1358	7.42 ^{+0.08} _{-0.08}	29.85 ^{+0.09} _{-0.09}	3.37E+37	1.01E+35
3495	58733.918186250	565.0 ^{+0.7} _{-0.7}	7.6 ^{+0.5} _{-0.5}	152 ⁺⁶ ₋₆	1420	72.68 ^{+4.09} _{-4.09}	550.91 ^{+2.09} _{-2.09}	5.90E+38	2.23E+36
3496	58733.918186289	565.0 ^{+0.7} _{-0.7}	7.5 ^{+0.6} _{-0.6}	154 ⁺¹⁰ ₋₁₀	1416	68.71 ^{+5.10} _{-5.10}	518.07 ^{+3.11} _{-3.11}	5.55E+38	3.33E+36
3497	58733.918237979	565.2 ^{+0.4} _{-0.4}	2.4 ^{+0.5} _{-0.5}	73 ⁺¹⁵ ₋₁₅	1374	7.14 ^{+0.07} _{-0.07}	16.87 ^{+0.03} _{-0.03}	1.91E+37	3.83E+34
3498	58733.918551057	563.3 ^{+0.5} _{-0.5}	2.5 ^{+0.6} _{-0.6}	55 ⁺²³ ₋₂₃	1391	8.37 ^{+0.09} _{-0.09}	20.62 ^{+0.05} _{-0.05}	2.33E+37	6.04E+34
3499	58733.918551246	563.3 ^{+1.3} _{-1.3}	1.8 ^{+0.4} _{-0.4}	93 ⁺²⁰ ₋₂₀	1401	7.70 ^{+0.08} _{-0.08}	13.55 ^{+0.03} _{-0.03}	1.53E+37	3.35E+34
3500	58733.918551648	562.6 ^{+1.3} _{-1.3}	3.5 ^{+1.9} _{-1.9}	95 ⁺⁵ ₋₅	1380	4.42 ^{+0.05} _{-0.05}	15.32 ^{+0.09} _{-0.09}	1.73E+37	9.65E+34
3501	58733.918622732	563.8 ^{+1.2} _{-1.2}	2.6 ^{+0.3} _{-0.3}	150 ⁺²⁶ ₋₂₆	1402	75.65 ^{+6.59} _{-6.59}	200.47 ^{+1.78} _{-1.78}	2.15E+38	1.90E+36
3502	58733.918670217	563.6 ^{+1.2} _{-1.2}	5.0 ^{+1.4} _{-1.4}	65 ⁺⁷ ₋₇	1419	5.70 ^{+0.06} _{-0.06}	28.74 ^{+0.08} _{-0.08}	3.25E+37	9.58E+34
3503	58733.918749078	564.3 ^{+0.9} _{-0.9}	8.7 ^{+0.5} _{-0.5}	293 ⁺⁹ ₋₉	1341	86.21 ^{+5.20} _{-5.20}	750.89 ^{+2.70} _{-2.70}	8.04E+38	2.89E+36
3504	58733.918872143	563.3 ^{+0.9} _{-0.9}	9.1 ^{+0.4} _{-0.4}	165 ⁺²⁸ ₋₂₈	1401	90.56 ^{+3.67} _{-3.67}	826.81 ^{+1.61} _{-1.61}	8.85E+38	1.73E+36
3505	58733.918872151	563.4 ^{+1.0} _{-1.0}	5.6 ^{+0.5} _{-0.5}	137 ⁺¹⁶ ₋₁₆	1425	65.27 ^{+4.64} _{-4.64}	362.25 ^{+2.13} _{-2.13}	3.88E+38	2.28E+36
3506	58733.919143986	563.0 ^{+1.1} _{-1.1}	4.8 ^{+0.5} _{-0.5}	280 ⁺⁵⁶ ₋₅₆	1300	13.20 ^{+0.14} _{-0.14}	63.10 ^{+0.07} _{-0.07}	7.13E+37	7.75E+34
3507	58733.919144290	562.6 ^{+1.1} _{-1.1}	2.1 ^{+1.3} _{-1.3}	138 ⁺⁴⁰ ₋₄₀	1325	6.48 ^{+0.07} _{-0.07}	13.60 ^{+0.09} _{-0.09}	1.54E+37	1.03E+35
3508	58733.919144421	562.6 ^{+1.2} _{-1.2}	1.4 ^{+0.2} _{-0.2}	80 ⁺²⁰ ₋₂₀	1387	14.22 ^{+0.15} _{-0.15}	19.46 ^{+0.02} _{-0.02}	2.20E+37	2.64E+34
3509	58733.919144908	562.4 ^{+0.3} _{-0.3}	1.4 ^{+0.1} _{-0.1}	166 ⁺²⁷ ₋₂₇	1375	104.10 ^{+9.14} _{-9.14}	143.66 ^{+1.28} _{-1.28}	1.54E+38	1.37E+36
3510	58733.919341896	563.6 ^{+1.2} _{-1.2}	7.0 ^{+1.0} _{-1.0}	135 ⁺⁶⁹ ₋₆₉	1353	9.87 ^{+0.10} _{-0.10}	69.22 ^{+0.10} _{-0.10}	7.82E+37	1.13E+35
3511	58733.919343671	563.1 ^{+1.4} _{-1.4}	3.0 ^{+0.8} _{-0.8}	93 ⁺²⁶ ₋₂₆	1363	5.82 ^{+0.06} _{-0.06}	17.32 ^{+0.05} _{-0.05}	1.96E+37	5.31E+34
3512	58733.919439744	564.1 ^{+1.2} _{-1.2}	3.1 ^{+0.3} _{-0.3}	60 ⁺³¹ ₋₃₁	1370	12.60 ^{+0.13} _{-0.13}	39.42 ^{+0.04} _{-0.04}	4.45E+37	4.83E+34
3513	58733.919585727	564.3 ^{+1.0} _{-1.0}	2.3 ^{+0.2} _{-0.2}	155 ⁺²⁸ ₋₂₈	1394	90.33 ^{+7.03} _{-7.03}	204.15 ^{+1.48} _{-1.48}	2.19E+38	1.58E+36
3514	58733.919738413	563.9 ^{+1.3} _{-1.3}	9.2 ^{+2.0} _{-2.0}	92 ⁺⁴⁷ ₋₄₇	1357	6.88 ^{+0.07} _{-0.07}	63.27 ^{+0.15} _{-0.15}	7.15E+37	1.64E+35
3515	58733.920190018	564.6 ^{+1.3} _{-1.3}	5.1 ^{+1.4} _{-1.4}	186 ⁺²⁶ ₋₂₆	1371	8.86 ^{+0.09} _{-0.09}	45.42 ^{+0.13} _{-0.13}	5.13E+37	1.51E+35
3516	58733.920301402	564.2 ^{+0.4} _{-0.4}	3.3 ^{+0.7} _{-0.7}	135 ⁺³⁸ ₋₃₈	1392	11.38 ^{+0.12} _{-0.12}	37.34 ^{+0.08} _{-0.08}	4.22E+37	8.81E+34
3517	58733.920432576	563.2 ^{+1.1} _{-1.1}	1.6 ^{+0.4} _{-0.4}	82 ⁺³³ ₋₃₃	1380	6.56 ^{+0.07} _{-0.07}	10.63 ^{+0.02} _{-0.02}	1.20E+37	2.78E+34
3518	58733.920449603	562.4 ^{+1.2} _{-1.2}	2.6 ^{+0.5} _{-0.5}	62 ⁺³² ₋₃₂	1373	8.25 ^{+0.09} _{-0.09}	21.13 ^{+0.04} _{-0.04}	2.39E+37	4.80E+34
3519	58733.920449691	562.6 ^{+1.2} _{-1.2}	6.4 ^{+1.2} _{-1.2}	82 ⁺⁷ ₋₇	1304	8.09 ^{+0.08} _{-0.08}	51.86 ^{+0.10} _{-0.10}	5.86E+37	1.16E+35
3520	58733.920452060	562.6 ^{+1.2} _{-1.2}	3.0 ^{+1.0} _{-1.0}	178 ⁺¹² ₋₁₂	1315	4.39 ^{+0.04} _{-0.04}	13.27 ^{+0.04} _{-0.04}	1.50E+37	4.84E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3521	58733.920526855	563.0 ^{+1.3} _{-1.3}	7.3 ^{+1.6} _{-1.6}	55 ⁺²² ₋₂₂	1384	5.65 ^{+0.06} _{-0.06}	41.37 ^{+0.09} _{-0.09}	4.67E+37	1.04E+35
3522	58733.920527015	562.9 ^{+1.3} _{-1.3}	3.8 ^{+0.9} _{-0.9}	52 ⁺¹² ₋₁₂	1329	7.11 ^{+0.07} _{-0.07}	26.97 ^{+0.07} _{-0.07}	3.05E+37	7.68E+34
3523	58733.920712697	563.0 ^{+1.1} _{-1.1}	1.7 ^{+0.2} _{-0.2}	131 ⁺³⁸ ₋₃₈	1348	14.44 ^{+0.15} _{-0.15}	24.92 ^{+0.04} _{-0.04}	2.82E+37	4.09E+34
3524	58733.921546878	562.6 ^{+1.4} _{-1.4}	8.5 ^{+1.4} _{-1.4}	64 ⁺¹⁸ ₋₁₈	1418	6.51 ^{+0.07} _{-0.07}	55.19 ^{+0.09} _{-0.09}	6.24E+37	1.06E+35
3525	58733.921812134	563.5 ^{+1.3} _{-1.3}	5.1 ^{+1.3} _{-1.3}	130 ⁺³⁶ ₋₃₆	1326	9.66 ^{+0.10} _{-0.10}	49.25 ^{+0.12} _{-0.12}	5.56E+37	1.40E+35
3526	58733.922437347	563.6 ^{+1.1} _{-1.1}	4.9 ^{+1.5} _{-1.5}	84 ⁺²³ ₋₂₃	1405	6.84 ^{+0.07} _{-0.07}	33.40 ^{+0.10} _{-0.10}	3.77E+37	1.16E+35
3527	58733.922496499	564.8 ^{+0.7} _{-0.7}	4.8 ^{+0.6} _{-0.6}	78 ⁺¹⁹ ₋₁₉	1389	11.53 ^{+0.12} _{-0.12}	54.76 ^{+0.07} _{-0.07}	6.19E+37	8.41E+34
3528	58733.922649028	563.8 ^{+0.9} _{-0.9}	4.9 ^{+1.6} _{-1.6}	224 ⁺⁷ ₋₇	1243	7.30 ^{+0.07} _{-0.07}	35.48 ^{+0.12} _{-0.12}	4.01E+37	1.31E+35
3529	58733.922649632	564.6 ^{+0.9} _{-0.9}	1.1 ^{+0.4} _{-0.4}	181 ⁺³⁶ ₋₃₆	1353	42.10 ^{+10.50} _{-10.50}	45.47 ^{+4.30} _{-4.30}	4.87E+37	4.61E+36
3530	58733.922977056	563.0 ^{+1.4} _{-1.4}	5.6 ^{+1.2} _{-1.2}	135 ⁺⁵³ ₋₅₃	1392	11.02 ^{+0.11} _{-0.11}	61.14 ^{+0.13} _{-0.13}	6.91E+37	1.46E+35
3531	58733.922977404	564.0 ^{+1.0} _{-1.0}	1.7 ^{+0.7} _{-0.7}	69 ⁺²⁹ ₋₂₉	1121	5.81 ^{+0.06} _{-0.06}	9.73 ^{+0.04} _{-0.04}	1.10E+37	4.92E+34
3532	58733.923267942	563.5 ^{+1.0} _{-1.0}	1.8 ^{+0.2} _{-0.2}	180 ⁺³⁹ ₋₃₉	1350	77.33 ^{+7.62} _{-7.62}	141.51 ^{+1.60} _{-1.60}	1.51E+38	1.71E+36
3533	58733.923348458	563.0 ^{+1.2} _{-1.2}	7.0 ^{+1.6} _{-1.6}	95 ⁺¹⁴ ₋₁₄	1370	8.04 ^{+0.08} _{-0.08}	55.94 ^{+0.13} _{-0.13}	6.32E+37	1.51E+35
3534	58733.923454115	565.1 ^{+0.6} _{-0.6}	2.8 ^{+0.5} _{-0.5}	79 ⁺³³ ₋₃₃	1436	9.59 ^{+0.10} _{-0.10}	26.49 ^{+0.05} _{-0.05}	2.99E+37	6.00E+34
3535	58733.924293163	562.9 ^{+1.2} _{-1.2}	4.2 ^{+1.7} _{-1.7}	43 ⁺⁷ ₋₇	1452	4.93 ^{+0.05} _{-0.05}	20.66 ^{+0.08} _{-0.08}	2.33E+37	9.32E+34
3536	58733.924293551	564.3 ^{+1.1} _{-1.1}	3.3 ^{+0.7} _{-0.7}	171 ⁺⁶⁹ ₋₆₉	1259	32.48 ^{+5.99} _{-5.99}	105.88 ^{+4.19} _{-4.19}	1.13E+38	4.49E+36
3537	58733.924294014	564.3 ^{+1.1} _{-1.1}	2.3 ^{+0.5} _{-0.5}	155 ⁺¹⁷ ₋₁₇	1410	45.16 ^{+7.86} _{-7.86}	105.22 ^{+3.77} _{-3.77}	1.13E+38	4.04E+36
3538	58733.924294394	562.4 ^{+1.2} _{-1.2}	4.4 ^{+0.6} _{-0.6}	180 ⁺³³ ₋₃₃	1375	50.19 ^{+5.54} _{-5.54}	221.34 ^{+3.16} _{-3.16}	2.37E+38	3.38E+36
3539	58733.924294520	563.9 ^{+1.2} _{-1.2}	4.2 ^{+0.5} _{-0.5}	247 ⁺⁴⁴ ₋₄₄	1361	54.08 ^{+5.57} _{-5.57}	229.30 ^{+2.90} _{-2.90}	2.45E+38	3.10E+36
3540	58733.924341213	564.2 ^{+0.8} _{-0.8}	6.0 ^{+0.8} _{-0.8}	61 ⁺³¹ ₋₃₁	1380	9.15 ^{+0.09} _{-0.09}	55.25 ^{+0.08} _{-0.08}	6.24E+37	8.48E+34
3541	58733.924433482	564.6 ^{+0.6} _{-0.6}	2.9 ^{+0.5} _{-0.5}	113 ⁺⁴⁴ ₋₄₄	1391	10.32 ^{+0.10} _{-0.10}	30.26 ^{+0.05} _{-0.05}	3.42E+37	5.54E+34
3542	58733.924433668	564.6 ^{+0.6} _{-0.6}	7.8 ^{+3.2} _{-3.2}	113 ⁺¹¹⁴ ₋₁₁₄	1395	3.89 ^{+0.04} _{-0.04}	30.37 ^{+0.12} _{-0.12}	3.43E+37	1.39E+35
3543	58733.924456257	562.9 ^{+0.2} _{-0.2}	2.7 ^{+0.2} _{-0.2}	205 ⁺¹⁴ ₋₁₄	1108	22.01 ^{+0.22} _{-0.22}	58.55 ^{+0.04} _{-0.04}	6.62E+37	4.92E+34
3544	58733.924506815	564.2 ^{+0.2} _{-0.2}	2.7 ^{+0.1} _{-0.1}	381 ⁺²⁰ ₋₂₀	1239	336.42 ^{+6.49} _{-6.49}	898.24 ^{+0.39} _{-0.39}	9.62E+38	4.17E+35
3545	58733.924506817	564.2 ^{+0.2} _{-0.2}	1.0 ^{+0.2} _{-0.2}	278 ⁺¹⁹ ₋₁₉	1331	59.61 ^{+5.10} _{-5.10}	60.21 ^{+1.07} _{-1.07}	6.44E+37	1.15E+36
3546	58733.924906248	563.7 ^{+1.0} _{-1.0}	6.2 ^{+1.6} _{-1.6}	129 ⁺¹⁷ ₋₁₇	1144	8.54 ^{+0.09} _{-0.09}	53.19 ^{+0.13} _{-0.13}	6.01E+37	1.51E+35
3547	58733.925185130	563.3 ^{+1.1} _{-1.1}	5.4 ^{+0.4} _{-0.4}	276 ⁺²⁸ ₋₂₈	1343	63.06 ^{+4.46} _{-4.46}	338.00 ^{+2.01} _{-2.01}	3.62E+38	2.15E+36
3548	58733.925381130	563.5 ^{+1.3} _{-1.3}	5.9 ^{+1.2} _{-1.2}	187 ⁺¹⁸ ₋₁₈	1398	9.30 ^{+0.09} _{-0.09}	54.92 ^{+0.11} _{-0.11}	6.21E+37	1.27E+35
3549	58733.925495887	563.1 ^{+0.9} _{-0.9}	5.1 ^{+1.4} _{-1.4}	63 ⁺³⁵ ₋₃₅	1324	5.89 ^{+0.06} _{-0.06}	30.05 ^{+0.08} _{-0.08}	3.40E+37	9.50E+34
3550	58733.926246376	563.9 ^{+0.4} _{-0.4}	1.7 ^{+0.2} _{-0.2}	113 ⁺⁴⁵ ₋₄₅	1385	17.19 ^{+0.17} _{-0.17}	29.67 ^{+0.03} _{-0.03}	3.35E+37	3.48E+34
3551	58733.926246692	563.1 ^{+1.1} _{-1.1}	2.4 ^{+0.5} _{-0.5}	79 ⁺²⁶ ₋₂₆	1138	9.22 ^{+0.09} _{-0.09}	22.09 ^{+0.04} _{-0.04}	2.50E+37	4.86E+34
3552	58733.926329642	565.0 ^{+1.0} _{-1.0}	2.0 ^{+0.4} _{-0.4}	91 ⁺¹⁰ ₋₁₀	1349	8.51 ^{+0.08} _{-0.08}	16.79 ^{+0.03} _{-0.03}	1.90E+37	3.41E+34
3553	58733.926329728	564.4 ^{+1.3} _{-1.3}	7.1 ^{+1.0} _{-1.0}	226 ⁺⁷⁹ ₋₇₉	1376	11.64 ^{+0.12} _{-0.12}	82.49 ^{+0.12} _{-0.12}	9.32E+37	1.31E+35
3554	58733.926786689	562.9 ^{+1.3} _{-1.3}	4.4 ^{+0.6} _{-0.6}	57 ⁺⁸ ₋₈	1354	11.23 ^{+0.11} _{-0.11}	49.44 ^{+0.56} _{-0.56}	5.29E+37	5.99E+35
3555	58733.927138975	562.1 ^{+0.6} _{-0.6}	3.9 ^{+1.0} _{-1.0}	84 ⁺⁷⁵ ₋₇₅	1142	6.85 ^{+0.07} _{-0.07}	26.50 ^{+0.07} _{-0.07}	2.99E+37	7.62E+34
3556	58733.927202585	564.3 ^{+1.1} _{-1.1}	3.8 ^{+0.4} _{-0.4}	156 ⁺³⁰ ₋₃₀	1232	10.39 ^{+0.10} _{-0.10}	39.56 ^{+0.04} _{-0.04}	4.47E+37	4.53E+34
3557	58733.927262252	564.2 ^{+1.0} _{-1.0}	5.3 ^{+1.5} _{-1.5}	178 ⁺¹⁴⁸ ₋₁₄₈	1352	5.20 ^{+0.05} _{-0.05}	27.78 ^{+0.08} _{-0.08}	3.14E+37	8.79E+34
3558	58733.927365033	562.7 ^{+1.3} _{-1.3}	5.4 ^{+1.1} _{-1.1}	73 ⁺³³ ₋₃₃	1402	6.74 ^{+0.07} _{-0.07}	36.75 ^{+0.07} _{-0.07}	4.15E+37	8.18E+34
3559	58733.927413516	564.0 ^{+0.2} _{-0.2}	2.0 ^{+0.2} _{-0.2}	260 ⁺⁴⁶ ₋₄₆	1251	73.80 ^{+7.21} _{-7.21}	148.34 ^{+1.66} _{-1.66}	1.59E+38	1.78E+36
3560	58733.927478544	562.4 ^{+1.1} _{-1.1}	8.2 ^{+1.9} _{-1.9}	111 ⁺⁴⁵ ₋₄₅	1416	8.02 ^{+0.08} _{-0.08}	65.78 ^{+0.15} _{-0.15}	7.43E+37	1.71E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3561	58733.927547124	564.3 ^{+0.4} _{-0.4}	5.4 ^{+0.7} _{-0.7}	211 ⁺¹² ₋₁₂	1176	8.71 ^{+0.09} _{-0.09}	47.32 ^{+0.06} _{-0.06}	5.35E+37	6.41E+34
3562	58733.927676792	563.3 ^{+1.3} _{-1.3}	4.2 ^{+0.6} _{-0.6}	89 ⁺²¹ ₋₂₁	1302	9.37 ^{+0.09} _{-0.09}	39.66 ^{+0.05} _{-0.05}	4.48E+37	5.83E+34
3563	58733.927676881	563.6 ^{+1.2} _{-1.2}	3.2 ^{+0.9} _{-0.9}	201 ⁺¹³ ₋₁₃	1276	6.38 ^{+0.06} _{-0.06}	20.70 ^{+0.06} _{-0.06}	2.34E+37	6.27E+34
3564	58733.927679856	564.1 ^{+1.1} _{-1.1}	5.5 ^{+0.9} _{-0.9}	92 ⁺²⁰ ₋₂₀	1188	9.53 ^{+0.09} _{-0.09}	52.31 ^{+0.09} _{-0.09}	5.91E+37	9.69E+34
3565	58733.927784527	564.0 ^{+1.0} _{-1.0}	2.7 ^{+0.7} _{-0.7}	167 ⁺⁶ ₋₆	1279	6.00 ^{+0.06} _{-0.06}	16.31 ^{+0.04} _{-0.04}	1.84E+37	4.53E+34
3566	58733.927784619	562.9 ^{+1.4} _{-1.4}	3.1 ^{+0.9} _{-0.9}	96 ⁺⁴⁴ ₋₄₄	1184	5.25 ^{+0.05} _{-0.05}	16.43 ^{+0.04} _{-0.04}	1.86E+37	5.08E+34
3567	58733.927785010	564.1 ^{+0.9} _{-0.9}	4.9 ^{+0.6} _{-0.6}	274 ⁺⁴⁴ ₋₄₄	1160	9.77 ^{+0.10} _{-0.10}	47.58 ^{+0.05} _{-0.05}	5.38E+37	6.14E+34
3568	58733.927785145	564.1 ^{+1.1} _{-1.1}	6.2 ^{+0.9} _{-0.9}	112 ⁺⁷ ₋₇	1095	4.08 ^{+0.04} _{-0.04}	25.21 ^{+0.28} _{-0.28}	2.70E+37	3.03E+35
3569	58733.927792690	563.0 ^{+1.2} _{-1.2}	7.0 ^{+1.0} _{-1.0}	110 ⁺³⁹ ₋₃₉	1414	10.19 ^{+0.10} _{-0.10}	71.15 ^{+0.10} _{-0.10}	8.04E+37	1.10E+35
3570	58733.927858085	564.9 ^{+0.5} _{-0.5}	2.9 ^{+0.5} _{-0.5}	77 ⁺¹² ₋₁₂	1366	10.39 ^{+0.10} _{-0.10}	29.67 ^{+0.05} _{-0.05}	3.35E+37	5.68E+34
3571	58733.927975646	562.9 ^{+1.2} _{-1.2}	4.9 ^{+1.8} _{-1.8}	46 ⁺⁴⁴ ₋₄₄	1341	4.28 ^{+0.04} _{-0.04}	21.01 ^{+0.07} _{-0.07}	2.37E+37	8.43E+34
3572	58733.927976211	564.0 ^{+0.9} _{-0.9}	3.3 ^{+0.6} _{-0.6}	114 ⁺⁴¹ ₋₄₁	1326	10.13 ^{+0.10} _{-0.10}	33.32 ^{+0.06} _{-0.06}	3.77E+37	6.59E+34
3573	58733.928311758	564.4 ^{+0.3} _{-0.3}	10.2 ^{+1.2} _{-1.2}	140 ⁺²⁵ ₋₂₅	1289	36.58 ^{+3.43} _{-3.43}	371.65 ^{+4.08} _{-4.08}	3.98E+38	4.37E+36
3574	58733.928311916	565.0 ^{+0.4} _{-0.4}	3.1 ^{+0.4} _{-0.4}	102 ⁺⁴³ ₋₄₃	1156	56.07 ^{+6.05} _{-6.05}	171.57 ^{+2.36} _{-2.36}	1.84E+38	2.53E+36
3575	58733.928312287	560.9 ^{+0.3} _{-0.3}	9.7 ^{+2.7} _{-2.7}	150 ⁺¹² ₋₁₂	1166	7.31 ^{+0.07} _{-0.07}	71.11 ^{+0.19} _{-0.19}	8.03E+37	2.20E+35
3576	58733.928550087	562.8 ^{+1.2} _{-1.2}	4.4 ^{+1.4} _{-1.4}	46 ⁺⁹ ₋₉	1403	3.98 ^{+0.04} _{-0.04}	17.40 ^{+0.05} _{-0.05}	1.97E+37	6.10E+34
3577	58733.928552060	564.0 ^{+1.0} _{-1.0}	6.8 ^{+0.5} _{-0.5}	212 ⁺²³ ₋₂₃	1342	67.50 ^{+3.94} _{-3.94}	456.97 ^{+1.85} _{-1.85}	4.89E+38	1.98E+36
3578	58733.929649561	563.7 ^{+1.3} _{-1.3}	5.9 ^{+0.9} _{-0.9}	105 ⁺⁸ ₋₈	1421	12.94 ^{+0.12} _{-0.12}	75.86 ^{+0.11} _{-0.11}	8.57E+37	1.24E+35
3579	58733.929649642	563.9 ^{+0.5} _{-0.5}	3.9 ^{+0.8} _{-0.8}	70 ⁺¹³ ₋₁₃	1370	10.03 ^{+0.10} _{-0.10}	39.13 ^{+0.07} _{-0.07}	4.42E+37	8.41E+34
3580	58733.929793893	563.1 ^{+1.3} _{-1.3}	4.6 ^{+0.5} _{-0.5}	103 ⁺⁴⁷ ₋₄₇	1264	8.52 ^{+0.08} _{-0.08}	38.85 ^{+0.04} _{-0.04}	4.39E+37	4.42E+34
3581	58733.929794159	562.9 ^{+1.2} _{-1.2}	3.4 ^{+0.5} _{-0.5}	129 ⁺⁴⁶ ₋₄₆	1363	8.22 ^{+0.08} _{-0.08}	28.33 ^{+0.31} _{-0.31}	3.03E+37	3.29E+35
3582	58733.929794199	562.8 ^{+1.3} _{-1.3}	7.2 ^{+1.8} _{-1.8}	100 ⁺²⁴ ₋₂₄	1358	5.87 ^{+0.06} _{-0.06}	42.18 ^{+0.10} _{-0.10}	4.77E+37	1.14E+35
3583	58733.929951957	562.8 ^{+0.7} _{-0.7}	3.3 ^{+0.5} _{-0.5}	68 ⁺³² ₋₃₂	1350	9.21 ^{+0.09} _{-0.09}	29.98 ^{+0.05} _{-0.05}	3.39E+37	5.49E+34
3584	58733.930114426	562.8 ^{+0.2} _{-0.2}	1.8 ^{+0.2} _{-0.2}	238 ⁺¹³ ₋₁₃	1378	85.19 ^{+7.37} _{-7.37}	156.75 ^{+1.40} _{-1.40}	1.68E+38	1.50E+36
3585	58733.930114427	562.8 ^{+0.2} _{-0.2}	6.9 ^{+0.4} _{-0.4}	99 ⁺³⁷ ₋₃₇	1344	65.53 ^{+5.41} _{-5.41}	451.50 ^{+1.89} _{-1.89}	4.83E+38	2.03E+36
3586	58733.930449607	564.3 ^{+0.4} _{-0.4}	4.5 ^{+0.8} _{-0.8}	86 ⁺²² ₋₂₂	1345	7.90 ^{+0.07} _{-0.07}	35.46 ^{+0.06} _{-0.06}	4.01E+37	6.66E+34
3587	58733.930449860	562.3 ^{+0.6} _{-0.6}	3.5 ^{+0.5} _{-0.5}	144 ⁺⁴⁴ ₋₄₄	1377	10.23 ^{+0.10} _{-0.10}	35.64 ^{+0.05} _{-0.05}	4.03E+37	5.12E+34
3588	58733.930537294	563.4 ^{+1.2} _{-1.2}	3.3 ^{+0.5} _{-0.5}	71 ⁺⁴¹ ₋₄₁	1396	5.94 ^{+0.06} _{-0.06}	19.35 ^{+0.21} _{-0.21}	2.07E+37	2.23E+35
3589	58733.930654016	563.4 ^{+1.4} _{-1.4}	5.9 ^{+0.4} _{-0.4}	149 ⁺¹⁰ ₋₁₀	1187	77.85 ^{+4.21} _{-4.21}	458.54 ^{+1.56} _{-1.56}	4.91E+38	1.67E+36
3590	58733.930720577	564.5 ^{+0.3} _{-0.3}	7.9 ^{+1.1} _{-1.1}	178 ⁺²⁰ ₋₂₀	1362	22.84 ^{+0.22} _{-0.22}	179.67 ^{+1.95} _{-1.95}	1.92E+38	2.09E+36
3591	58733.930720580	564.5 ^{+0.3} _{-0.3}	2.4 ^{+0.2} _{-0.2}	268 ⁺⁹⁴ ₋₉₄	1153	111.52 ^{+6.38} _{-6.38}	266.53 ^{+1.02} _{-1.02}	2.85E+38	1.09E+36
3592	58733.930729068	562.8 ^{+1.0} _{-1.0}	4.3 ^{+1.1} _{-1.1}	79 ⁺¹⁶ ₋₁₆	1366	6.41 ^{+0.06} _{-0.06}	27.36 ^{+0.07} _{-0.07}	3.09E+37	7.68E+34
3593	58733.930729582	563.3 ^{+1.1} _{-1.1}	6.4 ^{+1.2} _{-1.2}	112 ⁺¹⁶ ₋₁₆	1407	9.00 ^{+0.09} _{-0.09}	57.67 ^{+0.10} _{-0.10}	6.52E+37	1.12E+35
3594	58733.930731904	563.0 ^{+1.1} _{-1.1}	7.8 ^{+1.0} _{-1.0}	217 ⁺¹³ ₋₁₃	1234	36.09 ^{+3.74} _{-3.74}	282.58 ^{+3.59} _{-3.59}	3.03E+38	3.84E+36
3595	58733.930742005	563.6 ^{+1.2} _{-1.2}	2.9 ^{+0.4} _{-0.4}	153 ⁺¹³¹ ₋₁₃₁	1226	13.41 ^{+0.13} _{-0.13}	39.18 ^{+0.42} _{-0.42}	4.19E+37	4.54E+35
3596	58733.931027829	563.7 ^{+1.2} _{-1.2}	7.2 ^{+1.0} _{-1.0}	115 ⁺¹⁷ ₋₁₇	1429	15.15 ^{+0.14} _{-0.14}	109.15 ^{+1.19} _{-1.19}	1.17E+38	1.27E+36
3597	58733.931027849	563.7 ^{+1.2} _{-1.2}	4.8 ^{+0.5} _{-0.5}	194 ⁺³² ₋₃₂	1354	52.15 ^{+4.66} _{-4.66}	248.23 ^{+2.28} _{-2.28}	2.66E+38	2.44E+36
3598	58733.931166762	562.9 ^{+1.2} _{-1.2}	3.9 ^{+0.6} _{-0.6}	161 ⁺³ ₋₃	1239	8.41 ^{+0.08} _{-0.08}	33.15 ^{+0.36} _{-0.36}	3.55E+37	3.86E+35
3599	58733.931273426	563.2 ^{+1.4} _{-1.4}	5.3 ^{+1.3} _{-1.3}	41 ⁺¹⁵ ₋₁₅	1392	5.02 ^{+0.05} _{-0.05}	26.48 ^{+0.06} _{-0.06}	2.99E+37	6.88E+34
3600	58733.931337564	562.9 ^{+1.5} _{-1.5}	4.6 ^{+0.7} _{-0.7}	61 ⁺⁹ ₋₉	1395	18.11 ^{+0.17} _{-0.17}	83.59 ^{+0.90} _{-0.90}	8.95E+37	9.67E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3601	58735.007861745	565.2 ^{+0.7} _{-0.7}	1.8 ^{+0.5} _{-0.5}	72 ⁺²⁷ ₋₂₇	1407	8.48 ^{+0.08} _{-0.08}	15.58 ^{+0.04} _{-0.04}	1.76E+37	4.17E+34
3602	58735.007861900	564.6 ^{+0.9} _{-0.9}	3.7 ^{+1.6} _{-1.6}	79 ⁺³⁵ ₋₃₅	1395	6.23 ^{+0.06} _{-0.06}	23.16 ^{+0.10} _{-0.10}	2.62E+37	1.09E+35
3603	58735.008069531	563.6 ^{+1.3} _{-1.3}	6.7 ^{+1.0} _{-1.0}	67 ⁺³⁰ ₋₃₀	1372	7.92 ^{+0.08} _{-0.08}	52.81 ^{+0.08} _{-0.08}	5.97E+37	8.54E+34
3604	58735.008118310	562.5 ^{+1.0} _{-1.0}	4.8 ^{+1.5} _{-1.5}	128 ⁺⁴ ₋₄	1318	7.63 ^{+0.07} _{-0.07}	36.86 ^{+0.11} _{-0.11}	4.17E+37	1.23E+35
3605	58735.008118787	563.2 ^{+0.9} _{-0.9}	2.6 ^{+0.8} _{-0.8}	88 ⁺³⁷ ₋₃₇	1399	7.63 ^{+0.07} _{-0.07}	19.97 ^{+0.06} _{-0.06}	2.26E+37	6.63E+34
3606	58735.008171748	563.6 ^{+1.2} _{-1.2}	5.2 ^{+1.9} _{-1.9}	53 ⁺³⁴ ₋₃₄	1382	4.97 ^{+0.05} _{-0.05}	26.03 ^{+0.09} _{-0.09}	2.94E+37	1.03E+35
3607	58735.008171892	562.6 ^{+1.2} _{-1.2}	2.5 ^{+1.3} _{-1.3}	52 ⁺³ ₋₃	1384	3.48 ^{+0.03} _{-0.03}	8.85 ^{+0.04} _{-0.04}	1.00E+37	4.81E+34
3608	58735.008427203	563.9 ^{+0.8} _{-0.8}	1.7 ^{+0.6} _{-0.6}	77 ⁺⁵ ₋₅	1273	5.43 ^{+0.05} _{-0.05}	9.10 ^{+0.03} _{-0.03}	1.03E+37	3.60E+34
3609	58735.008427346	563.8 ^{+1.0} _{-1.0}	1.9 ^{+0.5} _{-0.5}	105 ⁺⁸ ₋₈	1378	6.15 ^{+0.06} _{-0.06}	11.50 ^{+0.03} _{-0.03}	1.30E+37	3.45E+34
3610	58735.008427510	563.5 ^{+1.3} _{-1.3}	6.2 ^{+2.4} _{-2.4}	51 ⁺²⁵ ₋₂₅	1359	5.63 ^{+0.05} _{-0.05}	34.81 ^{+0.13} _{-0.13}	3.93E+37	1.44E+35
3611	58735.008737129	564.5 ^{+1.1} _{-1.1}	4.7 ^{+0.7} _{-0.7}	176 ⁺⁴¹ ₋₄₁	1381	11.41 ^{+0.11} _{-0.11}	53.53 ^{+0.08} _{-0.08}	6.05E+37	8.61E+34
3612	58735.008863693	563.4 ^{+0.9} _{-0.9}	4.0 ^{+0.4} _{-0.4}	199 ⁺²⁹ ₋₂₉	1360	14.36 ^{+0.14} _{-0.14}	57.35 ^{+0.06} _{-0.06}	6.48E+37	6.61E+34
3613	58735.009075914	563.9 ^{+1.2} _{-1.2}	3.3 ^{+1.1} _{-1.1}	96 ⁺³² ₋₃₂	1412	7.04 ^{+0.07} _{-0.07}	23.05 ^{+0.07} _{-0.07}	2.60E+37	8.25E+34
3614	58735.009130323	564.7 ^{+0.9} _{-0.9}	4.7 ^{+1.7} _{-1.7}	48 ⁺¹⁹ ₋₁₉	1412	5.93 ^{+0.06} _{-0.06}	27.96 ^{+0.10} _{-0.10}	3.16E+37	1.08E+35
3615	58735.009130951	564.4 ^{+1.0} _{-1.0}	3.9 ^{+0.7} _{-0.7}	124 ⁺⁵⁶ ₋₅₆	1324	10.46 ^{+0.10} _{-0.10}	40.72 ^{+0.07} _{-0.07}	4.60E+37	7.42E+34
3616	58735.009399999	563.0 ^{+1.3} _{-1.3}	7.4 ^{+2.5} _{-2.5}	92 ⁺⁴ ₋₄	1351	6.29 ^{+0.06} _{-0.06}	46.88 ^{+0.15} _{-0.15}	5.29E+37	1.70E+35
3617	58735.009400188	563.1 ^{+1.3} _{-1.3}	6.3 ^{+1.7} _{-1.7}	52 ⁺⁷⁵ ₋₇₅	1070	5.48 ^{+0.05} _{-0.05}	34.56 ^{+0.09} _{-0.09}	3.91E+37	1.03E+35
3618	58735.009484422	564.0 ^{+0.9} _{-0.9}	4.8 ^{+1.5} _{-1.5}	121 ⁺⁵⁶ ₋₅₆	1377	9.57 ^{+0.09} _{-0.09}	46.31 ^{+0.14} _{-0.14}	5.23E+37	1.53E+35
3619	58735.009587302	564.2 ^{+0.7} _{-0.7}	3.6 ^{+1.6} _{-1.6}	70 ⁺³⁸ ₋₃₈	1407	6.56 ^{+0.06} _{-0.06}	23.80 ^{+0.10} _{-0.10}	2.69E+37	1.13E+35
3620	58735.009700402	561.5 ^{+0.8} _{-0.8}	10.6 ^{+4.3} _{-4.3}	293 ⁺⁶¹ ₋₆₁	1188	4.06 ^{+0.04} _{-0.04}	43.00 ^{+0.17} _{-0.17}	4.86E+37	1.90E+35
3621	58735.010070143	564.0 ^{+1.0} _{-1.0}	14.6 ^{+4.1} _{-4.1}	84 ⁺⁴ ₋₄	1354	6.25 ^{+0.06} _{-0.06}	91.29 ^{+0.24} _{-0.24}	1.03E+38	2.72E+35
3622	58735.010070857	563.0 ^{+1.3} _{-1.3}	4.3 ^{+1.3} _{-1.3}	186 ⁺⁴² ₋₄₂	1249	7.05 ^{+0.07} _{-0.07}	30.63 ^{+0.08} _{-0.08}	3.46E+37	9.58E+34
3623	58735.010162271	563.3 ^{+1.3} _{-1.3}	5.2 ^{+1.7} _{-1.7}	54 ⁺⁵⁰ ₋₅₀	1371	6.95 ^{+0.07} _{-0.07}	35.98 ^{+0.11} _{-0.11}	4.07E+37	1.29E+35
3624	58735.010576807	563.1 ^{+1.2} _{-1.2}	2.3 ^{+0.6} _{-0.6}	82 ⁺³⁸ ₋₃₈	1402	5.94 ^{+0.06} _{-0.06}	13.59 ^{+0.04} _{-0.04}	1.54E+37	4.15E+34
3625	58735.010871504	563.1 ^{+1.3} _{-1.3}	8.6 ^{+3.7} _{-3.7}	65 ⁺⁴⁰ ₋₄₀	1332	4.63 ^{+0.04} _{-0.04}	39.80 ^{+0.16} _{-0.16}	4.50E+37	1.86E+35
3626	58735.011277362	563.1 ^{+1.3} _{-1.3}	3.5 ^{+1.4} _{-1.4}	84 ⁺¹⁷ ₋₁₇	1137	4.31 ^{+0.04} _{-0.04}	15.05 ^{+0.06} _{-0.06}	1.70E+37	6.78E+34
3627	58735.011279333	562.9 ^{+1.3} _{-1.3}	8.7 ^{+1.3} _{-1.3}	81 ⁺³⁸ ₋₃₈	1096	10.80 ^{+0.10} _{-0.10}	94.09 ^{+1.04} _{-1.04}	1.01E+38	1.11E+36
3628	58735.011318783	562.9 ^{+1.2} _{-1.2}	8.5 ^{+1.8} _{-1.8}	203 ⁺²⁵ ₋₂₅	1390	10.95 ^{+0.10} _{-0.10}	93.16 ^{+0.19} _{-0.19}	1.05E+38	2.17E+35
3629	58735.011825684	563.2 ^{+1.3} _{-1.3}	4.1 ^{+1.3} _{-1.3}	59 ⁺²¹ ₋₂₁	1403	8.05 ^{+0.08} _{-0.08}	33.12 ^{+0.10} _{-0.10}	3.74E+37	1.14E+35
3630	58735.011826771	564.1 ^{+1.1} _{-1.1}	4.9 ^{+0.7} _{-0.7}	199 ⁺⁴⁴ ₋₄₄	1314	8.26 ^{+0.08} _{-0.08}	40.38 ^{+0.05} _{-0.05}	4.56E+37	6.02E+34
3631	58735.011827467	562.6 ^{+1.4} _{-1.4}	4.0 ^{+1.6} _{-1.6}	61 ⁺²⁰ ₋₂₀	1187	3.30 ^{+0.03} _{-0.03}	13.18 ^{+0.05} _{-0.05}	1.49E+37	5.79E+34
3632	58735.011862878	562.7 ^{+1.4} _{-1.4}	2.5 ^{+1.0} _{-1.0}	46 ⁺²³ ₋₂₃	1433	5.00 ^{+0.05} _{-0.05}	12.70 ^{+0.05} _{-0.05}	1.43E+37	5.44E+34
3633	58735.012062402	563.1 ^{+1.3} _{-1.3}	5.8 ^{+1.3} _{-1.3}	199 ⁺⁶⁹ ₋₆₉	1348	8.23 ^{+0.08} _{-0.08}	47.35 ^{+0.11} _{-0.11}	5.35E+37	1.21E+35
3634	58735.012104337	564.7 ^{+0.7} _{-0.7}	4.9 ^{+0.8} _{-0.8}	189 ⁺⁴⁰ ₋₄₀	1236	9.73 ^{+0.10} _{-0.10}	48.15 ^{+0.07} _{-0.07}	5.44E+37	8.47E+34
3635	58735.012246139	563.5 ^{+1.1} _{-1.1}	4.2 ^{+1.0} _{-1.0}	147 ⁺⁶⁹ ₋₆₉	1277	8.36 ^{+0.08} _{-0.08}	35.33 ^{+0.08} _{-0.08}	3.99E+37	9.03E+34
3636	58735.012324469	563.5 ^{+1.2} _{-1.2}	2.5 ^{+0.4} _{-0.4}	105 ⁺³³ ₋₃₃	1145	10.90 ^{+0.11} _{-0.11}	26.87 ^{+0.04} _{-0.04}	3.04E+37	4.66E+34
3637	58735.012421349	563.8 ^{+0.4} _{-0.4}	2.8 ^{+0.3} _{-0.3}	175 ⁺¹⁶ ₋₁₆	1123	14.60 ^{+0.14} _{-0.14}	41.07 ^{+0.05} _{-0.05}	4.64E+37	5.47E+34
3638	58735.012509481	564.6 ^{+0.5} _{-0.5}	6.2 ^{+1.6} _{-1.6}	50 ⁺³¹ ₋₃₁	1349	7.15 ^{+0.07} _{-0.07}	44.17 ^{+0.11} _{-0.11}	4.99E+37	1.28E+35
3639	58735.012655563	561.3 ^{+0.9} _{-0.9}	3.9 ^{+1.8} _{-1.8}	81 ⁺¹² ₋₁₂	1281	3.86 ^{+0.04} _{-0.04}	14.92 ^{+0.07} _{-0.07}	1.69E+37	7.90E+34
3640	58735.012754926	563.0 ^{+1.3} _{-1.3}	2.6 ^{+0.9} _{-0.9}	86 ⁺²⁵ ₋₂₅	1336	4.50 ^{+0.04} _{-0.04}	11.66 ^{+0.04} _{-0.04}	1.32E+37	4.65E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3641	58735.012755246	564.6 ^{+1.0} _{-1.0}	9.9 ^{+1.9} _{-1.9}	257 ⁺⁵² ₋₅₂	1286	11.23 ^{+0.11} _{-0.11}	110.74 ^{+0.21} _{-0.21}	1.25E+38	2.38E+35
3642	58735.013473033	563.0 ^{+1.2} _{-1.2}	3.0 ^{+0.4} _{-0.4}	106 ⁺³⁸ ₋₃₈	1351	13.21 ^{+0.13} _{-0.13}	39.31 ^{+0.06} _{-0.06}	4.44E+37	6.35E+34
3643	58735.013737109	562.2 ^{+0.7} _{-0.7}	4.1 ^{+0.7} _{-0.7}	255 ⁺⁴ ₋₄	1183	11.91 ^{+0.12} _{-0.12}	49.02 ^{+0.09} _{-0.09}	5.54E+37	9.89E+34
3644	58735.013758758	563.6 ^{+1.3} _{-1.3}	8.9 ^{+1.8} _{-1.8}	203 ⁺⁸² ₋₈₂	1282	10.09 ^{+0.10} _{-0.10}	89.57 ^{+0.18} _{-0.18}	1.01E+38	2.02E+35
3645	58735.013901038	562.4 ^{+1.4} _{-1.4}	7.4 ^{+2.3} _{-2.3}	122 ⁺³⁷ ₋₃₇	1380	7.67 ^{+0.08} _{-0.08}	56.68 ^{+0.18} _{-0.18}	6.41E+37	2.02E+35
3646	58735.013901365	562.0 ^{+1.2} _{-1.2}	2.5 ^{+0.9} _{-0.9}	173 ⁺¹⁴¹ ₋₁₄₁	1137	5.45 ^{+0.05} _{-0.05}	13.81 ^{+0.05} _{-0.05}	1.56E+37	5.61E+34
3647	58735.013901791	563.2 ^{+1.2} _{-1.2}	2.6 ^{+1.0} _{-1.0}	119 ⁺⁹ ₋₉	1271	4.96 ^{+0.05} _{-0.05}	12.77 ^{+0.05} _{-0.05}	1.44E+37	5.56E+34
3648	58735.013902271	563.1 ^{+1.1} _{-1.1}	5.5 ^{+0.9} _{-0.9}	232 ⁺³⁹ ₋₃₉	1225	14.82 ^{+0.15} _{-0.15}	81.03 ^{+0.13} _{-0.13}	9.16E+37	1.44E+35
3649	58735.014125483	564.8 ^{+0.9} _{-0.9}	4.0 ^{+0.5} _{-0.5}	49 ⁺⁴⁸ ₋₄₈	1370	13.35 ^{+0.13} _{-0.13}	53.69 ^{+0.06} _{-0.06}	6.07E+37	6.80E+34
3650	58735.014125662	562.3 ^{+0.9} _{-0.9}	7.6 ^{+0.9} _{-0.9}	234 ⁺⁴⁵ ₋₄₅	1346	41.57 ^{+4.12} _{-4.12}	315.93 ^{+3.67} _{-3.67}	3.38E+38	3.93E+36
3651	58735.014697147	561.0 ^{+0.8} _{-0.8}	9.1 ^{+2.3} _{-2.3}	87 ⁺¹⁰ ₋₁₀	1441	7.87 ^{+0.08} _{-0.08}	71.93 ^{+0.18} _{-0.18}	8.13E+37	2.01E+35
3652	58735.014697236	564.3 ^{+0.9} _{-0.9}	5.2 ^{+1.0} _{-1.0}	122 ⁺³⁵ ₋₃₅	1168	11.07 ^{+0.11} _{-0.11}	57.42 ^{+0.11} _{-0.11}	6.49E+37	1.23E+35
3653	58735.015114444	563.9 ^{+0.1} _{-0.1}	2.6 ^{+0.1} _{-0.1}	147 ⁺²⁸ ₋₂₈	1420	220.16 ^{+6.61} _{-6.61}	563.61 ^{+0.59} _{-0.59}	6.03E+38	6.37E+35
3654	58735.015377333	563.1 ^{+0.9} _{-0.9}	13.3 ^{+2.6} _{-2.6}	56 ⁺²⁰ ₋₂₀	1124	7.72 ^{+0.08} _{-0.08}	102.35 ^{+0.20} _{-0.20}	1.16E+38	2.27E+35
3655	58735.015532602	562.8 ^{+0.9} _{-0.9}	6.5 ^{+1.6} _{-1.6}	83 ⁺¹⁸ ₋₁₈	1375	6.89 ^{+0.07} _{-0.07}	44.57 ^{+0.11} _{-0.11}	5.04E+37	1.21E+35
3656	58735.015547640	562.5 ^{+1.3} _{-1.3}	7.0 ^{+1.4} _{-1.4}	250 ⁺⁸⁴ ₋₈₄	1287	10.72 ^{+0.11} _{-0.11}	74.92 ^{+0.15} _{-0.15}	8.47E+37	1.74E+35
3657	58735.015547711	562.9 ^{+1.3} _{-1.3}	7.2 ^{+0.9} _{-0.9}	165 ⁺⁶⁰ ₋₆₀	1290	12.34 ^{+0.12} _{-0.12}	88.56 ^{+0.11} _{-0.11}	1.00E+38	1.28E+35
3658	58735.015832332	564.7 ^{+0.8} _{-0.8}	2.8 ^{+0.6} _{-0.6}	73 ⁺⁵⁴ ₋₅₄	1371	7.95 ^{+0.08} _{-0.08}	22.64 ^{+0.05} _{-0.05}	2.56E+37	5.67E+34
3659	58735.015975076	563.2 ^{+1.2} _{-1.2}	2.3 ^{+0.6} _{-0.6}	84 ⁺³⁷ ₋₃₇	1383	6.01 ^{+0.06} _{-0.06}	14.09 ^{+0.04} _{-0.04}	1.59E+37	4.35E+34
3660	58735.016021592	562.8 ^{+1.2} _{-1.2}	3.3 ^{+0.6} _{-0.6}	145 ⁺¹² ₋₁₂	1407	9.37 ^{+0.09} _{-0.09}	31.21 ^{+0.05} _{-0.05}	3.53E+37	5.96E+34
3661	58735.016022310	560.8 ^{+1.4} _{-1.4}	6.2 ^{+1.2} _{-1.2}	232 ⁺²⁹ ₋₂₉	1371	10.17 ^{+0.10} _{-0.10}	62.68 ^{+0.12} _{-0.12}	7.08E+37	1.36E+35
3662	58735.016385725	563.4 ^{+1.2} _{-1.2}	4.3 ^{+0.8} _{-0.8}	98 ⁺¹⁴ ₋₁₄	1204	35.30 ^{+5.76} _{-5.76}	153.20 ^{+4.78} _{-4.78}	1.64E+38	5.12E+36
3663	58735.016386064	564.1 ^{+0.7} _{-0.7}	12.8 ^{+1.6} _{-1.6}	72 ⁺¹³ ₋₁₃	1173	31.99 ^{+3.22} _{-3.22}	408.51 ^{+5.06} _{-5.06}	4.37E+38	5.41E+36
3664	58735.016386313	563.5 ^{+1.1} _{-1.1}	2.1 ^{+0.7} _{-0.7}	88 ⁺⁴ ₋₄	1118	6.16 ^{+0.06} _{-0.06}	12.94 ^{+0.05} _{-0.05}	1.46E+37	5.24E+34
3665	58735.016457386	564.1 ^{+0.7} _{-0.7}	4.1 ^{+1.0} _{-1.0}	72 ⁺¹³ ₋₁₃	1173	7.02 ^{+0.07} _{-0.07}	28.98 ^{+0.07} _{-0.07}	3.27E+37	7.81E+34
3666	58735.016499638	564.0 ^{+1.0} _{-1.0}	3.2 ^{+0.9} _{-0.9}	113 ⁺⁹⁶ ₋₉₆	1353	4.17 ^{+0.04} _{-0.04}	13.47 ^{+0.04} _{-0.04}	1.52E+37	4.30E+34
3667	58735.016499870	562.8 ^{+1.5} _{-1.5}	1.6 ^{+0.5} _{-0.5}	94 ⁺⁶¹ ₋₆₁	1290	6.02 ^{+0.06} _{-0.06}	9.36 ^{+0.03} _{-0.03}	1.06E+37	3.30E+34
3668	58735.016500180	562.7 ^{+1.2} _{-1.2}	3.8 ^{+0.6} _{-0.6}	88 ⁺⁴⁹ ₋₄₉	1387	6.50 ^{+0.07} _{-0.07}	24.60 ^{+0.04} _{-0.04}	2.78E+37	4.57E+34
3669	58735.016868498	562.6 ^{+1.2} _{-1.2}	4.5 ^{+1.5} _{-1.5}	83 ⁺²⁴ ₋₂₄	1341	4.93 ^{+0.05} _{-0.05}	22.35 ^{+0.07} _{-0.07}	2.53E+37	8.23E+34
3670	58735.017240522	563.2 ^{+1.3} _{-1.3}	8.6 ^{+2.4} _{-2.4}	87 ⁺³¹ ₋₃₁	1289	6.26 ^{+0.06} _{-0.06}	54.10 ^{+0.15} _{-0.15}	6.11E+37	1.71E+35
3671	58735.017482328	562.9 ^{+0.6} _{-0.6}	6.2 ^{+0.5} _{-0.5}	80 ⁺¹¹ ₋₁₁	1394	60.09 ^{+4.15} _{-4.15}	374.96 ^{+2.12} _{-2.12}	4.01E+38	2.27E+36
3672	58735.017515736	563.3 ^{+1.8} _{-1.8}	1.8 ^{+0.5} _{-0.5}	66 ⁺³⁵ ₋₃₅	1373	8.55 ^{+0.09} _{-0.09}	14.97 ^{+0.04} _{-0.04}	1.69E+37	4.79E+34
3673	58735.017516031	562.9 ^{+0.6} _{-0.6}	8.3 ^{+1.6} _{-1.6}	80 ⁺¹¹ ₋₁₁	1394	8.72 ^{+0.09} _{-0.09}	72.28 ^{+0.14} _{-0.14}	8.17E+37	1.59E+35
3674	58735.017615003	562.5 ^{+1.0} _{-1.0}	4.9 ^{+1.0} _{-1.0}	79 ⁺¹² ₋₁₂	1350	7.32 ^{+0.07} _{-0.07}	36.19 ^{+0.08} _{-0.08}	4.09E+37	8.70E+34
3675	58735.017636456	562.6 ^{+1.5} _{-1.5}	5.8 ^{+1.2} _{-1.2}	76 ⁺³ ₋₃	1338	7.14 ^{+0.07} _{-0.07}	41.10 ^{+0.09} _{-0.09}	4.64E+37	1.02E+35
3676	58735.018020329	564.6 ^{+0.8} _{-0.8}	2.4 ^{+1.0} _{-1.0}	36 ⁺⁴ ₋₄	1431	3.25 ^{+0.03} _{-0.03}	7.65 ^{+0.03} _{-0.03}	8.65E+36	3.72E+34
3677	58735.018133204	563.2 ^{+1.1} _{-1.1}	4.0 ^{+0.7} _{-0.7}	109 ⁺²⁶ ₋₂₆	1255	8.94 ^{+0.09} _{-0.09}	35.57 ^{+0.06} _{-0.06}	4.02E+37	6.77E+34
3678	58735.018347341	563.9 ^{+1.2} _{-1.2}	2.2 ^{+0.3} _{-0.3}	58 ⁺³⁰ ₋₃₀	1342	11.01 ^{+0.11} _{-0.11}	24.70 ^{+0.04} _{-0.04}	2.79E+37	4.39E+34
3679	58735.018540809	563.3 ^{+0.4} _{-0.4}	5.4 ^{+1.0} _{-1.0}	103 ⁺¹⁵ ₋₁₅	1189	12.77 ^{+0.13} _{-0.13}	69.37 ^{+0.12} _{-0.12}	7.84E+37	1.41E+35
3680	58735.018540999	563.7 ^{+0.6} _{-0.6}	14.9 ^{+0.6} _{-0.6}	358 ⁺¹¹ ₋₁₁	1299	89.19 ^{+3.02} _{-3.02}	1328.93 ^{+1.87} _{-1.87}	1.42E+39	2.00E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3681	58735.018543082	564.7 ^{+1.0} _{-1.0}	3.7 ^{+0.4} _{-0.4}	190 ⁺⁹ ₋₉	1222	75.85 ^{+8.07} _{-8.07}	277.61 ^{+3.55} _{-3.55}	2.97E+38	3.80E+36
3682	58735.018554043	564.3 ^{+1.1} _{-1.1}	7.1 ^{+0.5} _{-0.5}	270 ⁺¹⁹ ₋₁₉	1233	63.98 ^{+3.87} _{-3.87}	453.62 ^{+1.97} _{-1.97}	4.86E+38	2.11E+36
3683	58735.018571657	562.5 ^{+1.1} _{-1.1}	2.7 ^{+0.8} _{-0.8}	75 ⁺⁴⁶ ₋₄₆	1406	6.51 ^{+0.07} _{-0.07}	17.66 ^{+0.06} _{-0.06}	2.00E+37	6.33E+34
3684	58735.018646261	563.4 ^{+1.2} _{-1.2}	3.9 ^{+1.0} _{-1.0}	79 ⁺⁵⁴ ₋₅₄	1110	7.81 ^{+0.08} _{-0.08}	30.40 ^{+0.08} _{-0.08}	3.44E+37	8.71E+34
3685	58735.018801969	562.9 ^{+1.3} _{-1.3}	5.5 ^{+1.0} _{-1.0}	49 ⁺²¹ ₋₂₁	1375	8.36 ^{+0.09} _{-0.09}	46.10 ^{+0.09} _{-0.09}	5.21E+37	1.02E+35
3686	58735.018937461	565.1 ^{+0.7} _{-0.7}	3.0 ^{+0.6} _{-0.6}	84 ⁺³⁸ ₋₃₈	1372	9.24 ^{+0.10} _{-0.10}	27.72 ^{+0.06} _{-0.06}	3.13E+37	6.32E+34
3687	58735.019141087	562.3 ^{+0.9} _{-0.9}	1.6 ^{+0.3} _{-0.3}	125 ⁺²² ₋₂₂	1129	5.57 ^{+0.06} _{-0.06}	8.96 ^{+0.02} _{-0.02}	1.01E+37	2.24E+34
3688	58735.019141792	562.9 ^{+1.3} _{-1.3}	7.9 ^{+2.9} _{-2.9}	123 ⁺³¹ ₋₃₁	1092	4.77 ^{+0.05} _{-0.05}	37.54 ^{+0.14} _{-0.14}	4.24E+37	1.59E+35
3689	58735.019205226	562.9 ^{+0.8} _{-0.8}	3.7 ^{+1.0} _{-1.0}	73 ⁺¹³ ₋₁₃	1411	6.68 ^{+0.07} _{-0.07}	24.64 ^{+0.07} _{-0.07}	2.78E+37	7.95E+34
3690	58735.019346657	564.4 ^{+0.4} _{-0.4}	5.9 ^{+0.4} _{-0.4}	294 ⁺⁴⁰ ₋₄₀	1339	72.51 ^{+4.54} _{-4.54}	429.26 ^{+2.00} _{-2.00}	4.60E+38	2.14E+36
3691	58735.019810241	562.7 ^{+1.0} _{-1.0}	3.4 ^{+0.5} _{-0.5}	143 ⁺³³ ₋₃₃	1203	7.84 ^{+0.08} _{-0.08}	26.85 ^{+0.32} _{-0.32}	2.87E+37	3.40E+35
3692	58735.019811103	564.8 ^{+1.1} _{-1.1}	2.6 ^{+0.3} _{-0.3}	98 ⁺¹⁴ ₋₁₄	1257	10.53 ^{+0.11} _{-0.11}	27.74 ^{+0.04} _{-0.04}	3.13E+37	4.29E+34
3693	58735.020363818	562.5 ^{+1.2} _{-1.2}	3.7 ^{+0.9} _{-0.9}	98 ⁺²⁸ ₋₂₈	1360	7.46 ^{+0.08} _{-0.08}	27.90 ^{+0.07} _{-0.07}	3.15E+37	8.33E+34
3694	58735.020430008	565.3 ^{+0.5} _{-0.5}	2.7 ^{+0.2} _{-0.2}	89 ⁺¹¹ ₋₁₁	1280	11.63 ^{+0.12} _{-0.12}	31.23 ^{+0.03} _{-0.03}	3.53E+37	3.27E+34
3695	58735.020430358	562.7 ^{+1.0} _{-1.0}	4.2 ^{+2.5} _{-2.5}	115 ⁺⁵ ₋₅	1371	2.93 ^{+0.03} _{-0.03}	12.29 ^{+0.07} _{-0.07}	1.39E+37	8.48E+34
3696	58735.020669215	561.7 ^{+1.0} _{-1.0}	6.0 ^{+2.6} _{-2.6}	41 ⁺¹² ₋₁₂	1408	4.28 ^{+0.04} _{-0.04}	25.62 ^{+0.12} _{-0.12}	2.90E+37	1.31E+35
3697	58735.020669458	562.7 ^{+1.2} _{-1.2}	2.6 ^{+0.7} _{-0.7}	143 ⁺³⁷ ₋₃₇	1293	7.45 ^{+0.08} _{-0.08}	19.32 ^{+0.05} _{-0.05}	2.18E+37	6.13E+34
3698	58735.020861068	563.1 ^{+1.4} _{-1.4}	7.3 ^{+1.5} _{-1.5}	46 ⁺²⁷ ₋₂₇	1343	6.30 ^{+0.07} _{-0.07}	45.67 ^{+0.10} _{-0.10}	5.16E+37	1.14E+35
3699	58735.021265196	565.3 ^{+0.9} _{-0.9}	2.3 ^{+0.2} _{-0.2}	151 ⁺⁴⁰ ₋₄₀	1233	19.19 ^{+0.20} _{-0.20}	44.53 ^{+0.04} _{-0.04}	5.03E+37	4.52E+34
3700	58735.021338582	563.2 ^{+1.1} _{-1.1}	8.0 ^{+0.7} _{-0.7}	171 ⁺¹⁸ ₋₁₈	1214	51.18 ^{+3.85} _{-3.85}	410.98 ^{+2.77} _{-2.77}	4.40E+38	2.97E+36
3701	58735.021519302	562.6 ^{+1.3} _{-1.3}	5.9 ^{+1.7} _{-1.7}	71 ⁺⁴² ₋₄₂	1379	5.12 ^{+0.05} _{-0.05}	30.31 ^{+0.09} _{-0.09}	3.43E+37	1.04E+35
3702	58735.021791946	562.7 ^{+1.1} _{-1.1}	3.8 ^{+0.4} _{-0.4}	120 ⁺²⁸ ₋₂₈	1395	13.98 ^{+0.15} _{-0.15}	53.70 ^{+0.06} _{-0.06}	6.07E+37	7.31E+34
3703	58735.021937954	563.2 ^{+0.5} _{-0.5}	3.6 ^{+0.3} _{-0.3}	172 ⁺⁸ ₋₈	1388	90.80 ^{+5.61} _{-5.61}	322.34 ^{+1.46} _{-1.46}	3.45E+38	1.56E+36
3704	58735.022116438	563.9 ^{+0.9} _{-0.9}	4.2 ^{+0.8} _{-0.8}	102 ⁺¹² ₋₁₂	1428	7.15 ^{+0.07} _{-0.07}	30.25 ^{+0.06} _{-0.06}	3.42E+37	6.52E+34
3705	58735.022167303	564.3 ^{+1.1} _{-1.1}	5.6 ^{+1.4} _{-1.4}	107 ⁺³⁹ ₋₃₉	1301	5.66 ^{+0.06} _{-0.06}	31.71 ^{+0.08} _{-0.08}	3.58E+37	9.50E+34
3706	58735.022416095	565.6 ^{+1.5} _{-1.5}	7.9 ^{+0.4} _{-0.4}	323 ⁺⁷ ₋₇	1272	90.07 ^{+4.05} _{-4.05}	707.95 ^{+1.70} _{-1.70}	7.58E+38	1.82E+36
3707	58735.022531476	563.4 ^{+1.1} _{-1.1}	4.8 ^{+1.2} _{-1.2}	79 ⁺³³ ₋₃₃	1408	5.79 ^{+0.06} _{-0.06}	27.76 ^{+0.07} _{-0.07}	3.14E+37	8.09E+34
3708	58735.022732579	563.0 ^{+1.0} _{-1.0}	2.8 ^{+0.3} _{-0.3}	102 ⁺³⁴ ₋₃₄	1403	66.04 ^{+6.39} _{-6.39}	182.93 ^{+1.98} _{-1.98}	1.96E+38	2.12E+36
3709	58735.023301895	563.8 ^{+0.4} _{-0.4}	2.7 ^{+0.3} _{-0.3}	173 ⁺²⁸ ₋₂₈	1318	71.49 ^{+6.60} _{-6.60}	194.45 ^{+1.91} _{-1.91}	2.08E+38	2.05E+36
3710	58735.023324769	564.5 ^{+0.6} _{-0.6}	3.4 ^{+0.2} _{-0.2}	212 ⁺¹⁵ ₋₁₅	1351	94.69 ^{+5.69} _{-5.69}	317.21 ^{+1.37} _{-1.37}	3.40E+38	1.46E+36
3711	58735.023680955	563.5 ^{+1.3} _{-1.3}	5.9 ^{+0.6} _{-0.6}	253 ⁺⁷⁸ ₋₇₈	1312	8.15 ^{+0.09} _{-0.09}	48.25 ^{+0.06} _{-0.06}	5.45E+37	6.38E+34
3712	58735.023808944	564.1 ^{+1.3} _{-1.3}	11.5 ^{+1.3} _{-1.3}	104 ⁺²⁹ ₋₂₉	1234	11.39 ^{+0.12} _{-0.12}	131.18 ^{+0.15} _{-0.15}	1.48E+38	1.73E+35
3713	58735.023981881	563.4 ^{+1.3} _{-1.3}	4.7 ^{+0.8} _{-0.8}	68 ⁺²⁴ ₋₂₄	1319	10.86 ^{+0.12} _{-0.12}	51.05 ^{+0.09} _{-0.09}	5.77E+37	1.03E+35
3714	58735.024129034	562.1 ^{+0.8} _{-0.8}	10.4 ^{+2.2} _{-2.2}	73 ⁺³⁹ ₋₃₉	1175	7.14 ^{+0.08} _{-0.08}	74.16 ^{+0.17} _{-0.17}	8.38E+37	1.92E+35
3715	58735.024316723	563.8 ^{+0.8} _{-0.8}	4.3 ^{+0.6} _{-0.6}	74 ⁺³⁹ ₋₃₉	1149	10.37 ^{+0.11} _{-0.11}	44.91 ^{+0.07} _{-0.07}	5.07E+37	7.87E+34
3716	58735.024660062	562.6 ^{+1.1} _{-1.1}	3.8 ^{+0.4} _{-0.4}	126 ⁺⁸⁸ ₋₈₈	1356	12.49 ^{+0.14} _{-0.14}	47.87 ^{+0.06} _{-0.06}	5.41E+37	6.53E+34
3717	58735.024661194	563.6 ^{+1.2} _{-1.2}	3.3 ^{+0.6} _{-0.6}	115 ⁺⁴ ₋₄	1106	8.31 ^{+0.09} _{-0.09}	27.71 ^{+0.05} _{-0.05}	3.13E+37	6.19E+34
3718	58735.024810874	562.9 ^{+1.2} _{-1.2}	6.4 ^{+1.7} _{-1.7}	31 ⁺³ ₋₃	1305	4.76 ^{+0.05} _{-0.05}	30.34 ^{+0.09} _{-0.09}	3.43E+37	9.96E+34
3719	58735.024884649	563.9 ^{+1.1} _{-1.1}	2.5 ^{+0.3} _{-0.3}	178 ⁺⁴ ₋₄	1206	10.61 ^{+0.11} _{-0.11}	26.09 ^{+0.04} _{-0.04}	2.95E+37	4.16E+34
3720	58735.025043240	565.0 ^{+0.6} _{-0.6}	3.7 ^{+0.5} _{-0.5}	153 ⁺²² ₋₂₂	1326	54.53 ^{+5.86} _{-5.86}	199.58 ^{+2.70} _{-2.70}	2.14E+38	2.89E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3721	58735.025369345	564.1 ^{+0.6} _{-0.6}	3.6 ^{+0.9} _{-0.9}	219 ⁺¹⁷ ₋₁₇	1299	6.69 ^{+0.07} _{-0.07}	24.43 ^{+0.07} _{-0.07}	2.76E+37	7.35E+34
3722	58735.025481735	562.3 ^{+1.1} _{-1.1}	5.4 ^{+0.9} _{-0.9}	74 ⁺⁴¹ ₋₄₁	1375	8.42 ^{+0.09} _{-0.09}	45.78 ^{+0.08} _{-0.08}	5.17E+37	9.09E+34
3723	58735.025575611	562.4 ^{+1.0} _{-1.0}	7.7 ^{+1.8} _{-1.8}	78 ⁺²⁴ ₋₂₄	1298	7.58 ^{+0.08} _{-0.08}	58.34 ^{+0.15} _{-0.15}	6.59E+37	1.69E+35
3724	58735.025575917	561.8 ^{+0.9} _{-0.9}	9.1 ^{+2.8} _{-2.8}	117 ⁺⁵ ₋₅	1390	6.00 ^{+0.07} _{-0.07}	54.80 ^{+0.18} _{-0.18}	6.19E+37	2.06E+35
3725	58735.025879637	564.4 ^{+0.7} _{-0.7}	5.8 ^{+0.9} _{-0.9}	56 ⁺³⁶ ₋₃₆	1315	7.46 ^{+0.08} _{-0.08}	43.62 ^{+0.07} _{-0.07}	4.93E+37	8.30E+34
3726	58735.026164386	565.7 ^{+0.3} _{-0.3}	3.4 ^{+0.8} _{-0.8}	170 ⁺⁷² ₋₇₂	1352	9.21 ^{+0.10} _{-0.10}	31.49 ^{+0.08} _{-0.08}	3.56E+37	9.23E+34
3727	58735.026533506	562.5 ^{+1.0} _{-1.0}	9.7 ^{+2.0} _{-2.0}	196 ⁺⁵² ₋₅₂	1366	8.50 ^{+0.09} _{-0.09}	82.87 ^{+0.18} _{-0.18}	9.36E+37	2.04E+35
3728	58735.026534960	562.5 ^{+1.2} _{-1.2}	2.9 ^{+0.6} _{-0.6}	107 ⁺³⁰ ₋₃₀	1364	6.47 ^{+0.07} _{-0.07}	18.64 ^{+0.04} _{-0.04}	2.11E+37	4.45E+34
3729	58735.026629050	562.9 ^{+1.0} _{-1.0}	21.3 ^{+2.3} _{-2.3}	208 ⁺⁸² ₋₈₂	1332	31.10 ^{+2.58} _{-2.58}	661.50 ^{+5.96} _{-5.96}	7.08E+38	6.38E+36
3730	58735.026710249	564.4 ^{+0.6} _{-0.6}	2.9 ^{+0.4} _{-0.4}	68 ⁺³⁸ ₋₃₈	1395	14.04 ^{+0.15} _{-0.15}	40.57 ^{+0.07} _{-0.07}	4.58E+37	7.79E+34
3731	58735.026964217	563.2 ^{+1.2} _{-1.2}	3.0 ^{+0.5} _{-0.5}	141 ⁺³³ ₋₃₃	1309	11.76 ^{+0.13} _{-0.13}	34.99 ^{+0.06} _{-0.06}	3.95E+37	7.06E+34
3732	58735.027070094	563.7 ^{+0.1} _{-0.1}	2.6 ^{+0.0} _{-0.0}	364 ⁺¹² ₋₁₂	1317	679.99 ^{+7.39} _{-7.39}	1754.37 ^{+0.22} _{-0.22}	1.88E+39	2.37E+35
3733	58735.027220640	563.7 ^{+0.4} _{-0.4}	3.2 ^{+0.3} _{-0.3}	160 ⁺²⁶ ₋₂₆	1372	15.64 ^{+0.17} _{-0.17}	49.31 ^{+0.06} _{-0.06}	5.57E+37	6.67E+34
3734	58735.027221514	563.5 ^{+1.1} _{-1.1}	4.7 ^{+0.5} _{-0.5}	219 ⁺⁴⁷ ₋₄₇	1349	13.30 ^{+0.14} _{-0.14}	62.66 ^{+0.08} _{-0.08}	7.08E+37	9.00E+34
3735	58735.027342921	562.0 ^{+1.0} _{-1.0}	3.5 ^{+0.6} _{-0.6}	83 ⁺⁵ ₋₅	1402	10.28 ^{+0.11} _{-0.11}	35.74 ^{+0.07} _{-0.07}	4.04E+37	8.02E+34
3736	58735.027777760	563.1 ^{+1.3} _{-1.3}	14.4 ^{+3.9} _{-3.9}	157 ⁺¹⁰⁴ ₋₁₀₄	1343	4.87 ^{+0.05} _{-0.05}	70.38 ^{+0.21} _{-0.21}	7.95E+37	2.34E+35
3737	58735.028339642	563.2 ^{+1.2} _{-1.2}	2.3 ^{+0.4} _{-0.4}	140 ⁺⁶⁵ ₋₆₅	1237	8.96 ^{+0.10} _{-0.10}	20.69 ^{+0.04} _{-0.04}	2.34E+37	4.89E+34
3738	58735.028340745	564.6 ^{+1.2} _{-1.2}	10.6 ^{+2.6} _{-2.6}	281 ⁺⁷⁷ ₋₇₇	1265	5.02 ^{+0.06} _{-0.06}	53.37 ^{+0.14} _{-0.14}	6.03E+37	1.59E+35
3739	58735.028457585	562.7 ^{+0.2} _{-0.2}	5.4 ^{+0.3} _{-0.3}	268 ⁺³¹ ₋₃₁	1228	89.44 ^{+4.66} _{-4.66}	481.19 ^{+1.54} _{-1.54}	5.15E+38	1.65E+36
3740	58735.028647722	564.0 ^{+0.8} _{-0.8}	3.6 ^{+0.5} _{-0.5}	46 ⁺⁷ ₋₇	1439	4.93 ^{+0.05} _{-0.05}	17.95 ^{+0.22} _{-0.22}	1.92E+37	2.41E+35
3741	58735.028648246	564.0 ^{+0.8} _{-0.8}	3.2 ^{+1.5} _{-1.5}	197 ⁺¹¹⁰ ₋₁₁₀	1167	3.40 ^{+0.04} _{-0.04}	10.90 ^{+0.06} _{-0.06}	1.23E+37	6.23E+34
3742	58735.028661862	562.2 ^{+1.0} _{-1.0}	5.0 ^{+0.8} _{-0.8}	123 ⁺²³ ₋₂₃	1361	11.44 ^{+0.13} _{-0.13}	57.18 ^{+0.10} _{-0.10}	6.46E+37	1.18E+35
3743	58735.028820285	563.8 ^{+1.2} _{-1.2}	5.1 ^{+0.9} _{-0.9}	127 ⁺¹⁹ ₋₁₉	1172	9.80 ^{+0.11} _{-0.11}	50.15 ^{+0.10} _{-0.10}	5.67E+37	1.10E+35
3744	58735.028837674	563.1 ^{+1.3} _{-1.3}	5.2 ^{+0.7} _{-0.7}	75 ⁺³⁷ ₋₃₇	1343	10.21 ^{+0.11} _{-0.11}	52.84 ^{+0.08} _{-0.08}	5.97E+37	9.25E+34
3745	58735.028919221	563.5 ^{+0.6} _{-0.6}	2.4 ^{+0.3} _{-0.3}	104 ⁺⁴¹ ₋₄₁	1214	13.43 ^{+0.15} _{-0.15}	31.73 ^{+0.05} _{-0.05}	3.59E+37	5.37E+34
3746	58735.029034128	562.0 ^{+1.0} _{-1.0}	6.7 ^{+1.0} _{-1.0}	124 ⁺¹¹¹ ₋₁₁₁	1332	7.45 ^{+0.08} _{-0.08}	50.19 ^{+0.64} _{-0.64}	5.37E+37	6.85E+35
3747	58735.029200746	564.5 ^{+0.6} _{-0.6}	4.6 ^{+0.6} _{-0.6}	79 ⁺²⁹ ₋₂₉	1311	10.38 ^{+0.12} _{-0.12}	47.38 ^{+0.07} _{-0.07}	5.35E+37	7.41E+34
3748	58735.029412419	563.5 ^{+1.0} _{-1.0}	5.5 ^{+0.6} _{-0.6}	118 ⁺¹⁶ ₋₁₆	1243	12.87 ^{+0.14} _{-0.14}	71.35 ^{+0.09} _{-0.09}	8.06E+37	9.84E+34
3749	58735.029629802	564.1 ^{+1.0} _{-1.0}	8.0 ^{+3.0} _{-3.0}	124 ⁺⁵ ₋₅	1353	4.33 ^{+0.05} _{-0.05}	34.78 ^{+0.14} _{-0.14}	3.93E+37	1.62E+35
3750	58735.029699069	564.7 ^{+0.9} _{-0.9}	6.9 ^{+1.3} _{-1.3}	98 ⁺¹¹ ₋₁₁	1372	8.53 ^{+0.10} _{-0.10}	58.88 ^{+0.12} _{-0.12}	6.65E+37	1.38E+35
3751	58735.029984431	563.6 ^{+1.0} _{-1.0}	5.6 ^{+1.1} _{-1.1}	119 ⁺³⁸ ₋₃₈	1395	8.97 ^{+0.10} _{-0.10}	49.80 ^{+0.11} _{-0.11}	5.63E+37	1.21E+35
3752	58735.030059622	564.9 ^{+0.9} _{-0.9}	8.0 ^{+1.1} _{-1.1}	109 ⁺²⁴ ₋₂₄	1190	11.65 ^{+0.13} _{-0.13}	92.78 ^{+0.14} _{-0.14}	1.05E+38	1.62E+35
3753	58735.030097760	562.9 ^{+1.1} _{-1.1}	5.3 ^{+0.8} _{-0.8}	112 ⁺²⁵ ₋₂₅	1259	12.03 ^{+0.14} _{-0.14}	64.11 ^{+0.10} _{-0.10}	7.24E+37	1.15E+35
3754	58735.030403453	563.4 ^{+0.7} _{-0.7}	5.3 ^{+1.8} _{-1.8}	63 ⁺⁹ ₋₉	1401	4.96 ^{+0.06} _{-0.06}	26.17 ^{+0.10} _{-0.10}	2.96E+37	1.12E+35
3755	58735.030500890	563.3 ^{+0.6} _{-0.6}	3.8 ^{+0.6} _{-0.6}	96 ⁺⁹⁹ ₋₉₉	1422	11.22 ^{+0.13} _{-0.13}	42.72 ^{+0.08} _{-0.08}	4.83E+37	9.08E+34
3756	58735.030501134	562.0 ^{+0.9} _{-0.9}	6.1 ^{+3.3} _{-3.3}	45 ⁺⁴ ₋₄	1376	2.82 ^{+0.03} _{-0.03}	17.11 ^{+0.11} _{-0.11}	1.93E+37	1.20E+35
3757	58735.030589718	561.6 ^{+1.0} _{-1.0}	2.7 ^{+0.8} _{-0.8}	64 ⁺²³ ₋₂₃	1338	5.63 ^{+0.06} _{-0.06}	15.33 ^{+0.05} _{-0.05}	1.73E+37	5.67E+34
3758	58735.030589949	563.9 ^{+0.9} _{-0.9}	3.3 ^{+1.6} _{-1.6}	49 ⁺¹² ₋₁₂	1344	7.21 ^{+0.08} _{-0.08}	23.79 ^{+0.13} _{-0.13}	2.69E+37	1.42E+35
3759	58735.030590092	564.9 ^{+0.5} _{-0.5}	2.1 ^{+0.7} _{-0.7}	108 ⁺³¹ ₋₃₁	1419	7.30 ^{+0.08} _{-0.08}	15.20 ^{+0.06} _{-0.06}	1.72E+37	6.59E+34
3760	58735.030606137	563.4 ^{+0.5} _{-0.5}	2.7 ^{+0.5} _{-0.5}	103 ⁺⁴ ₋₄	1389	8.24 ^{+0.09} _{-0.09}	22.05 ^{+0.05} _{-0.05}	2.49E+37	5.26E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3761	58735.030612426	561.3 ^{+0.6} _{-0.6}	5.1 ^{+1.1} _{-1.1}	149 ⁺³⁹ ₋₃₉	1328	7.40 ^{+0.08} _{-0.08}	37.57 ^{+0.09} _{-0.09}	4.25E+37	1.05E+35
3762	58735.0311113894	563.2 ^{+0.1} _{-0.1}	0.9 ^{+0.1} _{-0.1}	128 ⁺²⁷ ₋₂₇	1416	132.12 ^{+13.76} _{-13.76}	124.19 ^{+1.51} _{-1.51}	1.33E+38	1.62E+36
3763	58735.0311113960	563.2 ^{+0.1} _{-0.1}	3.2 ^{+0.1} _{-0.1}	355 ⁺¹⁸ ₋₁₈	1322	325.62 ^{+7.52} _{-7.52}	1028.96 ^{+0.68} _{-0.68}	1.10E+39	7.25E+35
3764	58735.031316517	563.3 ^{+0.4} _{-0.4}	4.5 ^{+0.7} _{-0.7}	246 ⁺²⁵ ₋₂₅	1244	8.22 ^{+0.09} _{-0.09}	36.88 ^{+0.06} _{-0.06}	4.17E+37	7.14E+34
3765	58735.031404248	565.1 ^{+0.6} _{-0.6}	4.3 ^{+0.6} _{-0.6}	178 ⁺¹⁸ ₋₁₈	1143	11.56 ^{+0.13} _{-0.13}	50.11 ^{+0.08} _{-0.08}	5.66E+37	8.69E+34
3766	58735.031404644	562.8 ^{+1.7} _{-1.7}	3.5 ^{+1.6} _{-1.6}	222 ⁺⁴ ₋₄	1292	4.71 ^{+0.05} _{-0.05}	16.55 ^{+0.08} _{-0.08}	1.87E+37	9.36E+34
3767	58735.031429886	564.5 ^{+1.1} _{-1.1}	4.0 ^{+0.7} _{-0.7}	93 ⁺⁴² ₋₄₂	1198	7.42 ^{+0.08} _{-0.08}	30.03 ^{+0.06} _{-0.06}	3.39E+37	6.67E+34
3768	58735.031683009	564.3 ^{+1.2} _{-1.2}	6.8 ^{+1.0} _{-1.0}	104 ⁺³⁵ ₋₃₅	1380	9.05 ^{+0.10} _{-0.10}	61.94 ^{+0.11} _{-0.11}	6.99E+37	1.19E+35
3769	58735.031734912	562.0 ^{+0.9} _{-0.9}	3.9 ^{+0.5} _{-0.5}	174 ⁺²⁹ ₋₂₉	1334	10.71 ^{+0.12} _{-0.12}	41.40 ^{+0.06} _{-0.06}	4.68E+37	6.59E+34
3770	58735.031781019	565.4 ^{+0.6} _{-0.6}	12.1 ^{+2.2} _{-2.2}	88 ⁺⁴⁰ ₋₄₀	1363	9.57 ^{+0.11} _{-0.11}	115.56 ^{+0.24} _{-0.24}	1.31E+38	2.70E+35
3771	58735.031793775	563.6 ^{+1.4} _{-1.4}	2.2 ^{+0.4} _{-0.4}	168 ⁺²⁹ ₋₂₉	1406	12.49 ^{+0.14} _{-0.14}	26.96 ^{+0.05} _{-0.05}	3.05E+37	5.81E+34
3772	58735.031878058	563.7 ^{+0.5} _{-0.5}	2.0 ^{+0.2} _{-0.2}	269 ⁺²² ₋₂₂	1361	95.54 ^{+8.02} _{-8.02}	190.12 ^{+1.60} _{-1.60}	2.04E+38	1.72E+36
3773	58735.031972640	564.7 ^{+0.7} _{-0.7}	3.0 ^{+0.6} _{-0.6}	55 ⁺⁴⁶ ₋₄₆	1375	7.80 ^{+0.09} _{-0.09}	23.35 ^{+0.06} _{-0.06}	2.64E+37	6.30E+34
3774	58735.032250263	563.6 ^{+1.3} _{-1.3}	4.1 ^{+0.3} _{-0.3}	307 ⁺⁴² ₋₄₂	1325	97.26 ^{+5.57} _{-5.57}	395.85 ^{+1.50} _{-1.50}	4.24E+38	1.61E+36
3775	58735.032649075	562.2 ^{+1.3} _{-1.3}	9.3 ^{+0.7} _{-0.7}	215 ⁺¹⁴ ₋₁₄	1379	60.72 ^{+3.74} _{-3.74}	564.70 ^{+2.58} _{-2.58}	6.04E+38	2.76E+36
3776	58735.032649704	564.6 ^{+0.5} _{-0.5}	5.1 ^{+0.9} _{-0.9}	97 ⁺²⁵ ₋₂₅	1388	34.67 ^{+5.18} _{-5.18}	177.51 ^{+4.66} _{-4.66}	1.90E+38	4.99E+36
3777	58735.032795894	565.2 ^{+1.0} _{-1.0}	8.2 ^{+1.6} _{-1.6}	140 ⁺⁴⁷ ₋₄₇	1123	5.72 ^{+0.07} _{-0.07}	47.06 ^{+0.10} _{-0.10}	5.32E+37	1.17E+35
3778	58735.033826073	564.3 ^{+0.8} _{-0.8}	3.6 ^{+0.7} _{-0.7}	85 ⁺²⁵ ₋₂₅	1394	9.87 ^{+0.11} _{-0.11}	35.91 ^{+0.08} _{-0.08}	4.06E+37	8.59E+34
3779	58735.033888935	562.8 ^{+0.8} _{-0.8}	2.4 ^{+0.5} _{-0.5}	120 ⁺⁶¹ ₋₆₁	1344	6.81 ^{+0.08} _{-0.08}	16.33 ^{+0.04} _{-0.04}	1.84E+37	4.78E+34
3780	58735.033889149	560.7 ^{+0.6} _{-0.6}	4.6 ^{+0.8} _{-0.8}	186 ⁺⁴¹ ₋₄₁	1347	9.55 ^{+0.11} _{-0.11}	44.15 ^{+0.09} _{-0.09}	4.99E+37	1.01E+35
3781	58735.034261345	563.3 ^{+1.2} _{-1.2}	11.1 ^{+1.4} _{-1.4}	216 ⁺²⁴ ₋₂₄	1310	10.46 ^{+0.12} _{-0.12}	115.80 ^{+0.17} _{-0.17}	1.31E+38	1.97E+35
3782	58735.034652496	564.8 ^{+0.9} _{-0.9}	3.6 ^{+0.5} _{-0.5}	101 ⁺¹⁹ ₋₁₉	1280	9.95 ^{+0.12} _{-0.12}	36.01 ^{+0.05} _{-0.05}	4.07E+37	5.99E+34
3783	58735.034653486	564.4 ^{+0.8} _{-0.8}	3.3 ^{+0.5} _{-0.5}	84 ⁺¹⁶ ₋₁₆	1140	12.73 ^{+0.15} _{-0.15}	41.67 ^{+0.08} _{-0.08}	4.71E+37	8.53E+34
3784	58735.035026413	562.2 ^{+1.2} _{-1.2}	9.0 ^{+1.6} _{-1.6}	109 ⁺²⁵ ₋₂₅	1155	10.76 ^{+0.12} _{-0.12}	96.59 ^{+0.20} _{-0.20}	1.09E+38	2.24E+35
3785	58735.035424495	561.2 ^{+1.0} _{-1.0}	7.2 ^{+1.6} _{-1.6}	111 ⁺²⁷ ₋₂₇	1380	7.34 ^{+0.09} _{-0.09}	52.69 ^{+0.14} _{-0.14}	5.95E+37	1.53E+35
3786	58735.035930888	563.7 ^{+0.6} _{-0.6}	2.1 ^{+0.3} _{-0.3}	89 ⁺³² ₋₃₂	1117	13.61 ^{+0.16} _{-0.16}	29.15 ^{+0.05} _{-0.05}	3.29E+37	5.10E+34
3787	58735.036015916	563.4 ^{+0.3} _{-0.3}	3.1 ^{+0.5} _{-0.5}	199 ⁺³¹ ₋₃₁	1323	11.95 ^{+0.14} _{-0.14}	37.38 ^{+0.07} _{-0.07}	4.22E+37	8.45E+34
3788	58735.036016303	563.5 ^{+1.1} _{-1.1}	4.1 ^{+2.2} _{-2.2}	62 ⁺²⁷ ₋₂₇	1437	5.03 ^{+0.06} _{-0.06}	20.50 ^{+0.13} _{-0.13}	2.32E+37	1.44E+35
3789	58735.036016663	564.0 ^{+0.9} _{-0.9}	2.4 ^{+1.1} _{-1.1}	96 ⁺²⁶ ₋₂₆	1136	6.46 ^{+0.08} _{-0.08}	15.69 ^{+0.09} _{-0.09}	1.77E+37	9.69E+34
3790	58735.036017154	561.8 ^{+0.9} _{-0.9}	4.1 ^{+0.5} _{-0.5}	53 ⁺⁷ ₋₇	1118	10.83 ^{+0.13} _{-0.13}	44.61 ^{+0.07} _{-0.07}	5.04E+37	7.55E+34
3791	58735.036017581	563.8 ^{+0.9} _{-0.9}	2.8 ^{+0.6} _{-0.6}	164 ⁺¹³ ₋₁₃	1362	13.80 ^{+0.16} _{-0.16}	38.72 ^{+0.09} _{-0.09}	4.38E+37	1.01E+35
3792	58735.036017795	563.1 ^{+0.5} _{-0.5}	5.1 ^{+0.5} _{-0.5}	239 ⁺²⁸ ₋₂₈	1356	12.01 ^{+0.14} _{-0.14}	61.63 ^{+0.07} _{-0.07}	6.96E+37	8.08E+34
3793	58735.036109367	561.8 ^{+1.0} _{-1.0}	4.1 ^{+1.0} _{-1.0}	93 ⁺⁶³ ₋₆₃	1192	7.29 ^{+0.09} _{-0.09}	30.00 ^{+0.09} _{-0.09}	3.39E+37	9.95E+34
3794	58735.036479972	563.7 ^{+0.4} _{-0.4}	2.7 ^{+1.0} _{-1.0}	51 ⁺³⁷ ₋₃₇	1409	5.46 ^{+0.06} _{-0.06}	14.70 ^{+0.07} _{-0.07}	1.66E+37	7.45E+34
3795	58735.036480151	564.6 ^{+0.6} _{-0.6}	3.4 ^{+0.3} _{-0.3}	165 ⁺⁵⁰ ₋₅₀	1358	76.24 ^{+6.59} _{-6.59}	258.45 ^{+2.24} _{-2.24}	2.77E+38	2.40E+36
3796	58735.036480341	564.8 ^{+0.5} _{-0.5}	3.9 ^{+1.2} _{-1.2}	73 ⁺¹⁹ ₋₁₉	1377	5.96 ^{+0.07} _{-0.07}	23.37 ^{+0.08} _{-0.08}	2.64E+37	9.32E+34
3797	58735.036629364	562.0 ^{+0.9} _{-0.9}	4.3 ^{+1.1} _{-1.1}	89 ⁺⁴⁴ ₋₄₄	1309	5.57 ^{+0.07} _{-0.07}	23.97 ^{+0.07} _{-0.07}	2.71E+37	8.12E+34
3798	58735.036640200	561.4 ^{+0.8} _{-0.8}	11.4 ^{+2.6} _{-2.6}	82 ⁺¹⁵ ₋₁₅	1264	8.54 ^{+0.10} _{-0.10}	97.70 ^{+0.26} _{-0.26}	1.10E+38	2.99E+35
3799	58735.036754783	562.1 ^{+0.8} _{-0.8}	4.7 ^{+0.9} _{-0.9}	69 ⁺³⁷ ₋₃₇	1413	6.47 ^{+0.08} _{-0.08}	30.16 ^{+0.07} _{-0.07}	3.41E+37	7.98E+34
3800	58735.036754926	561.3 ^{+0.2} _{-0.2}	6.3 ^{+0.7} _{-0.7}	224 ⁺²⁵ ₋₂₅	1377	11.39 ^{+0.13} _{-0.13}	72.19 ^{+0.10} _{-0.10}	8.15E+37	1.11E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3801	58735.036754997	562.6 ^{+1.0} _{-1.0}	6.3 ^{+0.2} _{-0.2}	49 ⁺¹³ ₋₁₃	1399	155.11 ^{+5.13} _{-5.13}	974.09 ^{+1.23} _{-1.23}	1.04E+39	1.32E+36
3802	58735.037163156	562.6 ^{+1.1} _{-1.1}	14.3 ^{+2.8} _{-2.8}	171 ⁺³⁴ ₋₃₄	1316	9.25 ^{+0.11} _{-0.11}	132.09 ^{+0.31} _{-0.31}	1.49E+38	3.47E+35
3803	58735.037230998	562.9 ^{+1.1} _{-1.1}	5.0 ^{+0.4} _{-0.4}	262 ⁺⁴¹ ₋₄₁	1299	77.55 ^{+5.57} _{-5.57}	389.30 ^{+2.34} _{-2.34}	4.17E+38	2.50E+36
3804	58735.037847073	561.2 ^{+0.8} _{-0.8}	4.6 ^{+0.9} _{-0.9}	89 ⁺³² ₋₃₂	1384	7.11 ^{+0.09} _{-0.09}	32.74 ^{+0.08} _{-0.08}	3.70E+37	8.74E+34
3805	58735.038324326	563.7 ^{+1.3} _{-1.3}	4.2 ^{+0.7} _{-0.7}	85 ⁺⁵¹ ₋₅₁	1353	8.90 ^{+0.11} _{-0.11}	37.44 ^{+0.07} _{-0.07}	4.23E+37	8.24E+34
3806	58735.038483981	562.1 ^{+1.1} _{-1.1}	6.8 ^{+1.8} _{-1.8}	144 ⁺¹⁹ ₋₁₉	1181	7.31 ^{+0.09} _{-0.09}	49.64 ^{+0.16} _{-0.16}	5.61E+37	1.77E+35
3807	58735.038761582	565.2 ^{+0.7} _{-0.7}	3.3 ^{+0.5} _{-0.5}	68 ⁺⁴² ₋₄₂	1290	13.55 ^{+0.16} _{-0.16}	44.33 ^{+0.07} _{-0.07}	5.01E+37	8.29E+34
3808	58735.038975520	562.5 ^{+1.1} _{-1.1}	6.5 ^{+1.4} _{-1.4}	85 ⁺⁴⁰ ₋₄₀	1391	6.52 ^{+0.08} _{-0.08}	42.10 ^{+0.11} _{-0.11}	4.76E+37	1.22E+35
3809	58735.038975623	561.4 ^{+0.6} _{-0.6}	4.2 ^{+0.9} _{-0.9}	78 ⁺⁵⁶ ₋₅₆	1082	7.32 ^{+0.09} _{-0.09}	30.44 ^{+0.08} _{-0.08}	3.44E+37	8.83E+34
3810	58735.039077034	564.2 ^{+1.3} _{-1.3}	4.8 ^{+0.5} _{-0.5}	202 ⁺¹⁶ ₋₁₆	1386	66.89 ^{+5.70} _{-5.70}	318.40 ^{+2.68} _{-2.68}	3.41E+38	2.87E+36
3811	58735.039202418	564.0 ^{+0.9} _{-0.9}	5.5 ^{+0.9} _{-0.9}	141 ⁺⁶⁰ ₋₆₀	1341	9.49 ^{+0.11} _{-0.11}	51.79 ^{+0.10} _{-0.10}	5.85E+37	1.19E+35
3812	58735.039213457	564.9 ^{+0.9} _{-0.9}	2.5 ^{+0.4} _{-0.4}	163 ⁺⁵¹ ₋₅₁	1247	9.46 ^{+0.11} _{-0.11}	23.31 ^{+0.05} _{-0.05}	2.63E+37	5.20E+34
3813	58735.039402886	561.3 ^{+0.6} _{-0.6}	8.3 ^{+0.9} _{-0.9}	159 ⁺⁷ ₋₇	1416	14.46 ^{+0.17} _{-0.17}	119.73 ^{+0.15} _{-0.15}	1.35E+38	1.70E+35
3814	58735.039567288	563.9 ^{+1.5} _{-1.5}	7.2 ^{+1.4} _{-1.4}	59 ⁺¹⁷ ₋₁₇	1392	6.52 ^{+0.08} _{-0.08}	46.84 ^{+0.11} _{-0.11}	5.29E+37	1.27E+35
3815	58735.039582615	563.5 ^{+0.2} _{-0.2}	3.2 ^{+0.5} _{-0.5}	64 ⁺⁴ ₋₄	1416	6.49 ^{+0.08} _{-0.08}	21.02 ^{+0.04} _{-0.04}	2.38E+37	4.42E+34
3816	58735.039583115	563.1 ^{+1.4} _{-1.4}	3.1 ^{+0.7} _{-0.7}	46 ⁺²³ ₋₂₃	1389	6.45 ^{+0.08} _{-0.08}	20.08 ^{+0.05} _{-0.05}	2.27E+37	6.12E+34
3817	58735.039583332	565.5 ^{+0.3} _{-0.3}	5.1 ^{+1.3} _{-1.3}	147 ⁺³² ₋₃₂	1233	10.92 ^{+0.13} _{-0.13}	55.71 ^{+0.17} _{-0.17}	6.29E+37	1.95E+35
3818	58735.039644860	563.2 ^{+1.3} _{-1.3}	2.6 ^{+0.5} _{-0.5}	131 ⁺⁵² ₋₅₂	1385	9.12 ^{+0.11} _{-0.11}	23.25 ^{+0.05} _{-0.05}	2.63E+37	5.92E+34
3819	58735.040086795	564.8 ^{+1.0} _{-1.0}	5.3 ^{+1.0} _{-1.0}	75 ⁺³⁰ ₋₃₀	1385	8.22 ^{+0.10} _{-0.10}	43.34 ^{+0.10} _{-0.10}	4.90E+37	1.09E+35
3820	58735.040165493	565.4 ^{+0.5} _{-0.5}	4.5 ^{+0.4} _{-0.4}	456 ⁺⁶⁴ ₋₆₄	1265	69.99 ^{+5.73} _{-5.73}	314.26 ^{+2.46} _{-2.46}	3.36E+38	2.64E+36
3821	58735.040429141	565.0 ^{+0.8} _{-0.8}	11.0 ^{+1.1} _{-1.1}	205 ⁺²² ₋₂₂	1336	44.35 ^{+3.68} _{-3.68}	488.29 ^{+4.05} _{-4.05}	5.23E+38	4.33E+36
3822	58735.040576512	565.7 ^{+0.7} _{-0.7}	2.5 ^{+0.3} _{-0.3}	58 ⁺²² ₋₂₂	1371	18.27 ^{+0.22} _{-0.22}	46.03 ^{+0.06} _{-0.06}	5.20E+37	6.66E+34
3823	58735.040848757	561.4 ^{+0.4} _{-0.4}	6.5 ^{+1.2} _{-1.2}	51 ⁺¹¹ ₋₁₁	1431	9.68 ^{+0.12} _{-0.12}	62.72 ^{+0.14} _{-0.14}	7.09E+37	1.61E+35
3824	58735.040997321	563.5 ^{+1.0} _{-1.0}	6.8 ^{+0.9} _{-0.9}	115 ⁺¹⁶ ₋₁₆	1248	10.54 ^{+0.13} _{-0.13}	72.05 ^{+0.11} _{-0.11}	8.14E+37	1.25E+35
3825	58735.040997837	561.9 ^{+1.1} _{-1.1}	3.9 ^{+0.9} _{-0.9}	144 ⁺⁴¹ ₋₄₁	1289	8.05 ^{+0.10} _{-0.10}	31.05 ^{+0.09} _{-0.09}	3.51E+37	9.63E+34
3826	58735.041410500	562.7 ^{+0.5} _{-0.5}	2.6 ^{+0.5} _{-0.5}	96 ⁺³⁰ ₋₃₀	1343	10.26 ^{+0.12} _{-0.12}	26.16 ^{+0.06} _{-0.06}	2.96E+37	6.86E+34
3827	58735.041516973	564.4 ^{+1.2} _{-1.2}	5.7 ^{+0.7} _{-0.7}	77 ⁺³ ₋₃	1392	6.24 ^{+0.08} _{-0.08}	35.54 ^{+0.05} _{-0.05}	4.02E+37	6.18E+34
3828	58735.041590312	563.9 ^{+0.9} _{-0.9}	3.3 ^{+0.4} _{-0.4}	77 ⁺³⁹ ₋₃₉	1401	10.82 ^{+0.13} _{-0.13}	35.50 ^{+0.06} _{-0.06}	4.01E+37	6.23E+34
3829	58735.041844434	564.5 ^{+1.2} _{-1.2}	3.2 ^{+0.6} _{-0.6}	84 ⁺³⁶ ₋₃₆	1184	11.24 ^{+0.14} _{-0.14}	36.48 ^{+0.08} _{-0.08}	4.12E+37	8.92E+34
3830	58735.041955632	563.1 ^{+1.3} _{-1.3}	4.3 ^{+0.9} _{-0.9}	48 ⁺⁴ ₋₄	1381	6.67 ^{+0.08} _{-0.08}	28.63 ^{+0.07} _{-0.07}	3.24E+37	8.16E+34
3831	58735.041955933	563.1 ^{+1.1} _{-1.1}	4.7 ^{+0.9} _{-0.9}	93 ⁺⁵ ₋₅	1398	8.95 ^{+0.11} _{-0.11}	42.45 ^{+0.10} _{-0.10}	4.80E+37	1.09E+35
3832	58735.042370312	564.6 ^{+1.1} _{-1.1}	5.4 ^{+0.6} _{-0.6}	110 ⁺⁹ ₋₉	1431	13.90 ^{+0.17} _{-0.17}	75.48 ^{+0.10} _{-0.10}	8.53E+37	1.15E+35
3833	58735.042591126	563.0 ^{+0.8} _{-0.8}	3.5 ^{+0.3} _{-0.3}	77 ⁺¹³ ₋₁₃	1117	11.05 ^{+0.14} _{-0.14}	38.33 ^{+0.05} _{-0.05}	4.33E+37	5.15E+34
3834	58735.043149615	563.3 ^{+0.7} _{-0.7}	7.2 ^{+1.3} _{-1.3}	112 ⁺⁴⁷ ₋₄₇	1214	10.47 ^{+0.13} _{-0.13}	75.19 ^{+0.17} _{-0.17}	8.50E+37	1.96E+35
3835	58735.043328629	565.3 ^{+0.6} _{-0.6}	4.1 ^{+0.3} _{-0.3}	159 ⁺⁶⁷ ₋₆₇	1358	17.09 ^{+0.21} _{-0.21}	69.56 ^{+0.07} _{-0.07}	7.86E+37	7.73E+34
3836	58735.043372540	565.2 ^{+0.8} _{-0.8}	16.2 ^{+2.1} _{-2.1}	191 ⁺²⁰ ₋₂₀	1257	13.08 ^{+0.16} _{-0.16}	212.06 ^{+0.33} _{-0.33}	2.39E+38	3.77E+35
3837	58735.043372625	563.2 ^{+0.4} _{-0.4}	25.8 ^{+2.8} _{-2.8}	219 ⁺⁴⁰ ₋₄₀	1240	36.28 ^{+2.83} _{-2.83}	936.02 ^{+7.90} _{-7.90}	1.00E+39	8.45E+36
3838	58735.043373236	563.1 ^{+1.6} _{-1.6}	6.9 ^{+1.6} _{-1.6}	74 ⁺⁴ ₋₄	1366	6.10 ^{+0.07} _{-0.07}	41.84 ^{+0.12} _{-0.12}	4.72E+37	1.35E+35
3839	58735.043581404	564.0 ^{+1.1} _{-1.1}	2.7 ^{+0.5} _{-0.5}	101 ⁺⁴ ₋₄	1344	8.85 ^{+0.11} _{-0.11}	23.76 ^{+0.05} _{-0.05}	2.69E+37	6.07E+34
3840	58735.043586041	563.3 ^{+1.0} _{-1.0}	4.5 ^{+0.8} _{-0.8}	73 ⁺²⁸ ₋₂₈	1162	6.16 ^{+0.08} _{-0.08}	27.44 ^{+0.06} _{-0.06}	3.10E+37	7.23E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3841	58735.043646318	563.5 ^{+0.9} _{-0.9}	2.7 ^{+0.9} _{-0.9}	54 ⁺²⁴ ₋₂₄	1428	4.30 ^{+0.05} _{-0.05}	11.63 ^{+0.05} _{-0.05}	1.31E+37	5.27E+34
3842	58735.044039654	563.2 ^{+0.3} _{-0.3}	3.0 ^{+0.7} _{-0.7}	72 ⁺³⁰ ₋₃₀	1380	6.83 ^{+0.09} _{-0.09}	20.55 ^{+0.06} _{-0.06}	2.32E+37	6.44E+34
3843	58735.044163783	564.2 ^{+0.4} _{-0.4}	3.7 ^{+0.3} _{-0.3}	228 ⁺²⁸ ₋₂₈	1177	90.52 ^{+6.45} _{-6.45}	335.83 ^{+2.00} _{-2.00}	3.59E+38	2.14E+36
3844	58735.044389248	560.9 ^{+0.6} _{-0.6}	7.0 ^{+1.6} _{-1.6}	58 ⁺⁴¹ ₋₄₁	1219	6.43 ^{+0.08} _{-0.08}	45.35 ^{+0.13} _{-0.13}	5.12E+37	1.47E+35
3845	58735.044389349	563.2 ^{+1.3} _{-1.3}	7.0 ^{+1.2} _{-1.2}	89 ⁺³⁵ ₋₃₅	1174	9.56 ^{+0.12} _{-0.12}	67.39 ^{+0.14} _{-0.14}	7.61E+37	1.55E+35
3846	58735.044561107	561.2 ^{+0.9} _{-0.9}	9.1 ^{+1.7} _{-1.7}	56 ⁺¹⁹ ₋₁₉	1396	9.49 ^{+0.12} _{-0.12}	86.29 ^{+0.21} _{-0.21}	9.75E+37	2.33E+35
3847	58735.045033661	563.4 ^{+0.9} _{-0.9}	5.3 ^{+0.8} _{-0.8}	82 ⁺⁶⁵ ₋₆₅	1253	9.41 ^{+0.12} _{-0.12}	49.67 ^{+0.10} _{-0.10}	5.61E+37	1.13E+35
3848	58735.045033986	561.9 ^{+1.0} _{-1.0}	3.0 ^{+1.7} _{-1.7}	368 ⁺³ ₋₃	1223	3.04 ^{+0.04} _{-0.04}	9.10 ^{+0.06} _{-0.06}	1.03E+37	7.21E+34
3849	58735.045341394	564.0 ^{+1.1} _{-1.1}	6.9 ^{+3.8} _{-3.8}	119 ⁺⁵ ₋₅	1396	3.70 ^{+0.05} _{-0.05}	25.55 ^{+0.17} _{-0.17}	2.89E+37	1.96E+35
3850	58735.045341862	563.3 ^{+1.3} _{-1.3}	5.6 ^{+1.7} _{-1.7}	63 ⁺⁴ ₋₄	1422	5.26 ^{+0.07} _{-0.07}	29.27 ^{+0.11} _{-0.11}	3.31E+37	1.29E+35
3851	58735.045733471	564.4 ^{+0.6} _{-0.6}	7.0 ^{+1.1} _{-1.1}	78 ⁺¹⁸ ₋₁₈	1277	6.86 ^{+0.09} _{-0.09}	48.28 ^{+0.10} _{-0.10}	5.46E+37	1.10E+35
3852	58735.046080232	563.4 ^{+0.7} _{-0.7}	7.5 ^{+1.1} _{-1.1}	125 ⁺²⁸ ₋₂₈	1245	6.54 ^{+0.08} _{-0.08}	49.06 ^{+0.70} _{-0.70}	5.25E+37	7.54E+35
3853	58735.046350566	562.2 ^{+0.9} _{-0.9}	3.2 ^{+0.7} _{-0.7}	56 ⁺²⁰ ₋₂₀	1167	5.75 ^{+0.07} _{-0.07}	18.25 ^{+0.05} _{-0.05}	2.06E+37	5.50E+34
3854	58735.046474231	562.7 ^{+1.1} _{-1.1}	8.6 ^{+3.6} _{-3.6}	83 ⁺⁶ ₋₆	1190	4.18 ^{+0.05} _{-0.05}	35.76 ^{+0.19} _{-0.19}	4.04E+37	2.16E+35
3855	58735.046880237	564.3 ^{+0.6} _{-0.6}	2.4 ^{+0.3} _{-0.3}	49 ⁺¹¹ ₋₁₁	1054	13.16 ^{+0.17} _{-0.17}	31.45 ^{+0.05} _{-0.05}	3.55E+37	5.36E+34
3856	58735.046910589	563.4 ^{+1.1} _{-1.1}	5.8 ^{+1.0} _{-1.0}	66 ⁺⁴² ₋₄₂	1295	6.62 ^{+0.08} _{-0.08}	38.11 ^{+0.08} _{-0.08}	4.31E+37	9.08E+34
3857	58735.046996595	563.4 ^{+0.8} _{-0.8}	2.0 ^{+0.3} _{-0.3}	123 ⁺²³ ₋₂₃	1241	8.10 ^{+0.10} _{-0.10}	15.90 ^{+0.03} _{-0.03}	1.80E+37	3.55E+34
3858	58735.047183663	564.3 ^{+1.2} _{-1.2}	5.1 ^{+0.9} _{-0.9}	104 ⁺⁵⁰ ₋₅₀	1340	8.53 ^{+0.11} _{-0.11}	43.14 ^{+0.10} _{-0.10}	4.87E+37	1.08E+35
3859	58735.047233705	564.3 ^{+0.3} _{-0.3}	9.5 ^{+0.5} _{-0.5}	155 ⁺⁸ ₋₈	1421	90.65 ^{+4.04} _{-4.04}	863.89 ^{+2.06} _{-2.06}	9.25E+38	2.21E+36
3860	58735.047265871	563.5 ^{+1.2} _{-1.2}	2.4 ^{+0.5} _{-0.5}	49 ⁺³⁴ ₋₃₄	1363	8.23 ^{+0.10} _{-0.10}	19.72 ^{+0.05} _{-0.05}	2.23E+37	5.46E+34
3861	58735.047298976	562.8 ^{+1.5} _{-1.5}	6.1 ^{+1.4} _{-1.4}	61 ⁺⁴¹ ₋₄₁	1352	8.05 ^{+0.10} _{-0.10}	49.43 ^{+0.14} _{-0.14}	5.59E+37	1.56E+35
3862	58735.047574915	563.7 ^{+1.2} _{-1.2}	2.7 ^{+0.8} _{-0.8}	140 ⁺⁵ ₋₅	1366	8.24 ^{+0.10} _{-0.10}	22.64 ^{+0.08} _{-0.08}	2.56E+37	9.60E+34
3863	58735.047704496	562.8 ^{+1.2} _{-1.2}	3.9 ^{+1.4} _{-1.4}	330 ⁺⁹⁸ ₋₉₈	1211	4.62 ^{+0.06} _{-0.06}	17.84 ^{+0.09} _{-0.09}	2.02E+37	9.65E+34
3864	58736.966194401	563.0 ^{+1.1} _{-1.1}	4.6 ^{+1.7} _{-1.7}	120 ⁺³¹ ₋₃₁	1182	7.49 ^{+0.06} _{-0.06}	34.38 ^{+0.09} _{-0.09}	3.89E+37	1.06E+35
3865	58736.966194731	565.4 ^{+0.6} _{-0.6}	9.4 ^{+2.4} _{-2.4}	288 ⁺²⁸ ₋₂₈	1179	16.25 ^{+0.12} _{-0.12}	153.17 ^{+0.28} _{-0.28}	1.73E+38	3.21E+35
3866	58736.966792104	563.0 ^{+1.2} _{-1.2}	2.5 ^{+0.5} _{-0.5}	81 ⁺⁴⁷ ₋₄₇	1369	13.34 ^{+0.10} _{-0.10}	32.89 ^{+0.05} _{-0.05}	3.72E+37	5.25E+34
3867	58736.966792384	561.9 ^{+0.9} _{-0.9}	5.3 ^{+1.7} _{-1.7}	55 ⁺¹³ ₋₁₃	1350	7.76 ^{+0.06} _{-0.06}	41.32 ^{+0.09} _{-0.09}	4.67E+37	1.06E+35
3868	58736.967093100	563.0 ^{+0.1} _{-0.1}	3.4 ^{+0.0} _{-0.0}	350 ⁺¹⁹ ₋₁₉	1324	501.56 ^{+6.60} _{-6.60}	1710.32 ^{+0.33} _{-0.33}	1.83E+39	3.53E+35
3869	58736.967095174	563.3 ^{+1.2} _{-1.2}	8.2 ^{+2.3} _{-2.3}	120 ⁺⁸ ₋₈	1433	15.34 ^{+0.11} _{-0.11}	126.50 ^{+0.27} _{-0.27}	1.43E+38	3.00E+35
3870	58736.967110193	563.1 ^{+1.2} _{-1.2}	5.9 ^{+1.3} _{-1.3}	51 ⁺⁸ ₋₈	1384	14.39 ^{+0.11} _{-0.11}	85.26 ^{+0.14} _{-0.14}	9.63E+37	1.53E+35
3871	58736.967136169	563.1 ^{+1.1} _{-1.1}	4.1 ^{+0.7} _{-0.7}	231 ⁺¹⁹ ₋₁₉	1298	13.87 ^{+0.10} _{-0.10}	56.70 ^{+0.07} _{-0.07}	6.41E+37	8.02E+34
3872	58736.967300213	563.4 ^{+1.2} _{-1.2}	5.1 ^{+1.5} _{-1.5}	59 ⁺³⁹ ₋₃₉	1383	7.04 ^{+0.05} _{-0.05}	36.23 ^{+0.08} _{-0.08}	4.09E+37	8.89E+34
3873	58736.967384515	564.8 ^{+0.5} _{-0.5}	4.3 ^{+1.2} _{-1.2}	62 ⁺²⁹ ₋₂₉	1234	10.00 ^{+0.07} _{-0.07}	43.11 ^{+0.09} _{-0.09}	4.87E+37	1.03E+35
3874	58736.967551551	564.6 ^{+1.0} _{-1.0}	5.4 ^{+1.1} _{-1.1}	152 ⁺⁵⁰ ₋₅₀	1237	14.83 ^{+0.11} _{-0.11}	79.77 ^{+0.11} _{-0.11}	9.01E+37	1.30E+35
3875	58736.967557753	562.9 ^{+1.1} _{-1.1}	7.0 ^{+2.8} _{-2.8}	107 ⁺⁵ ₋₅	1386	7.37 ^{+0.05} _{-0.05}	51.57 ^{+0.15} _{-0.15}	5.83E+37	1.70E+35
3876	58736.967594547	564.3 ^{+0.8} _{-0.8}	5.2 ^{+2.0} _{-2.0}	76 ⁺³¹ ₋₃₁	1148	4.95 ^{+0.04} _{-0.04}	25.78 ^{+0.07} _{-0.07}	2.91E+37	8.17E+34
3877	58736.967611173	563.9 ^{+0.4} _{-0.4}	1.9 ^{+0.2} _{-0.2}	116 ⁺³⁵ ₋₃₅	1273	21.54 ^{+0.16} _{-0.16}	41.37 ^{+0.04} _{-0.04}	4.68E+37	4.13E+34
3878	58736.967618545	563.5 ^{+1.3} _{-1.3}	5.6 ^{+1.3} _{-1.3}	66 ⁺²⁹ ₋₂₉	1233	8.58 ^{+0.06} _{-0.06}	47.63 ^{+0.08} _{-0.08}	5.38E+37	8.93E+34
3879	58736.967667094	563.4 ^{+1.2} _{-1.2}	5.0 ^{+0.7} _{-0.7}	316 ⁺⁶⁴ ₋₆₄	1237	3.28 ^{+0.02} _{-0.02}	16.52 ^{+0.14} _{-0.14}	1.77E+37	1.48E+35
3880	58736.968258802	562.6 ^{+1.1} _{-1.1}	7.2 ^{+1.4} _{-1.4}	146 ⁺³³ ₋₃₃	1304	11.59 ^{+0.09} _{-0.09}	82.96 ^{+0.12} _{-0.12}	9.37E+37	1.40E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3881	58736.968333297	563.2 ^{+1.1} _{-1.1}	2.4 ^{+0.8} _{-0.8}	69 ⁺²⁹ ₋₂₉	1407	8.36 ^{+0.06} _{-0.06}	20.19 ^{+0.05} _{-0.05}	2.28E+37	5.57E+34
3882	58736.968801425	563.8 ^{+1.2} _{-1.2}	4.1 ^{+0.9} _{-0.9}	123 ⁺⁵⁰ ₋₅₀	1280	10.65 ^{+0.08} _{-0.08}	44.17 ^{+0.07} _{-0.07}	4.99E+37	8.11E+34
3883	58736.969112133	564.1 ^{+0.5} _{-0.5}	5.2 ^{+0.6} _{-0.6}	137 ⁺¹³ ₋₁₃	1176	14.43 ^{+0.11} _{-0.11}	75.53 ^{+0.07} _{-0.07}	8.53E+37	7.68E+34
3884	58736.969112324	563.2 ^{+1.1} _{-1.1}	5.9 ^{+0.8} _{-0.8}	103 ⁺¹⁵ ₋₁₅	1162	13.37 ^{+0.10} _{-0.10}	78.85 ^{+0.08} _{-0.08}	8.91E+37	9.40E+34
3885	58736.969112797	562.8 ^{+1.2} _{-1.2}	6.9 ^{+1.3} _{-1.3}	92 ⁺³ ₋₃	1291	7.40 ^{+0.05} _{-0.05}	50.75 ^{+0.07} _{-0.07}	5.73E+37	8.21E+34
3886	58736.969165493	562.6 ^{+1.0} _{-1.0}	3.2 ^{+0.6} _{-0.6}	50 ⁺⁸ ₋₈	1445	9.75 ^{+0.07} _{-0.07}	31.16 ^{+0.04} _{-0.04}	3.52E+37	4.77E+34
3887	58736.969320657	564.2 ^{+1.1} _{-1.1}	8.8 ^{+0.8} _{-0.8}	172 ⁺²⁹ ₋₂₉	1164	44.39 ^{+3.25} _{-3.25}	392.85 ^{+2.53} _{-2.53}	4.21E+38	2.71E+36
3888	58736.969418049	563.1 ^{+1.2} _{-1.2}	5.9 ^{+1.0} _{-1.0}	129 ⁺²⁸ ₋₂₈	1130	11.93 ^{+0.09} _{-0.09}	69.93 ^{+0.08} _{-0.08}	7.90E+37	9.59E+34
3889	58736.969450937	563.3 ^{+1.3} _{-1.3}	3.8 ^{+0.9} _{-0.9}	72 ⁺¹⁸ ₋₁₈	1177	11.80 ^{+0.09} _{-0.09}	45.43 ^{+0.08} _{-0.08}	5.13E+37	9.30E+34
3890	58736.969451268	563.0 ^{+1.3} _{-1.3}	4.7 ^{+1.7} _{-1.7}	130 ⁺⁴ ₋₄	1310	6.11 ^{+0.04} _{-0.04}	28.73 ^{+0.08} _{-0.08}	3.24E+37	8.72E+34
3891	58736.969575011	563.5 ^{+1.0} _{-1.0}	3.3 ^{+1.4} _{-1.4}	87 ⁺⁴⁴ ₋₄₄	1098	5.64 ^{+0.04} _{-0.04}	18.62 ^{+0.06} _{-0.06}	2.10E+37	6.57E+34
3892	58736.969582339	563.2 ^{+1.2} _{-1.2}	5.4 ^{+1.1} _{-1.1}	67 ⁺²⁵ ₋₂₅	1320	10.23 ^{+0.07} _{-0.07}	55.68 ^{+0.08} _{-0.08}	6.29E+37	9.27E+34
3893	58736.969913476	565.1 ^{+0.5} _{-0.5}	3.2 ^{+0.6} _{-0.6}	144 ⁺²¹ ₋₂₁	1310	10.08 ^{+0.07} _{-0.07}	31.79 ^{+0.04} _{-0.04}	3.59E+37	5.08E+34
3894	58736.970148340	563.1 ^{+1.2} _{-1.2}	5.8 ^{+1.2} _{-1.2}	47 ⁺¹³ ₋₁₃	1426	9.09 ^{+0.07} _{-0.07}	52.98 ^{+0.08} _{-0.08}	5.98E+37	9.40E+34
3895	58736.970337863	564.0 ^{+1.2} _{-1.2}	6.9 ^{+2.7} _{-2.7}	57 ⁺⁴ ₋₄	1415	4.70 ^{+0.04} _{-0.04}	32.35 ^{+0.09} _{-0.09}	3.65E+37	1.07E+35
3896	58736.970337954	564.1 ^{+1.2} _{-1.2}	6.0 ^{+1.3} _{-1.3}	132 ⁺⁴⁴ ₋₄₄	1396	12.27 ^{+0.09} _{-0.09}	73.24 ^{+0.11} _{-0.11}	8.28E+37	1.29E+35
3897	58736.970371377	563.3 ^{+1.2} _{-1.2}	10.5 ^{+3.2} _{-3.2}	224 ⁺³⁴ ₋₃₄	1253	7.43 ^{+0.06} _{-0.06}	78.39 ^{+0.18} _{-0.18}	8.86E+37	1.98E+35
3898	58736.970373092	564.2 ^{+0.8} _{-0.8}	4.9 ^{+1.5} _{-1.5}	110 ⁺⁴¹ ₋₄₁	1283	8.28 ^{+0.06} _{-0.06}	40.23 ^{+0.09} _{-0.09}	4.55E+37	1.03E+35
3899	58736.970399698	563.2 ^{+1.2} _{-1.2}	4.8 ^{+1.5} _{-1.5}	66 ⁺³⁹ ₋₃₉	1388	6.54 ^{+0.05} _{-0.05}	31.39 ^{+0.07} _{-0.07}	3.55E+37	8.30E+34
3900	58736.970708167	563.1 ^{+1.2} _{-1.2}	4.7 ^{+1.8} _{-1.8}	83 ⁺¹⁷ ₋₁₇	1398	6.42 ^{+0.05} _{-0.05}	30.14 ^{+0.09} _{-0.09}	3.41E+37	9.94E+34
3901	58736.970709097	563.8 ^{+0.8} _{-0.8}	6.6 ^{+1.6} _{-1.6}	202 ⁺⁶¹ ₋₆₁	1313	8.74 ^{+0.07} _{-0.07}	57.61 ^{+0.10} _{-0.10}	6.51E+37	1.16E+35
3902	58736.970827673	564.2 ^{+0.9} _{-0.9}	3.9 ^{+0.8} _{-0.8}	69 ⁺³¹ ₋₃₁	1419	11.29 ^{+0.08} _{-0.08}	44.23 ^{+0.07} _{-0.07}	5.00E+37	7.59E+34
3903	58736.970996071	564.9 ^{+0.9} _{-0.9}	3.3 ^{+0.7} _{-0.7}	112 ⁺²⁹ ₋₂₉	1420	8.79 ^{+0.07} _{-0.07}	29.27 ^{+0.05} _{-0.05}	3.31E+37	5.37E+34
3904	58736.971153207	564.6 ^{+0.8} _{-0.8}	4.1 ^{+1.2} _{-1.2}	64 ⁺¹¹ ₋₁₁	1141	9.69 ^{+0.07} _{-0.07}	39.70 ^{+0.09} _{-0.09}	4.49E+37	9.81E+34
3905	58736.971525732	562.1 ^{+1.1} _{-1.1}	2.9 ^{+0.3} _{-0.3}	100 ⁺²⁷ ₋₂₇	1426	57.48 ^{+5.58} _{-5.58}	167.27 ^{+1.84} _{-1.84}	1.79E+38	1.97E+36
3906	58736.972048305	563.9 ^{+1.3} _{-1.3}	5.2 ^{+0.8} _{-0.8}	124 ⁺⁵⁶ ₋₅₆	1187	4.12 ^{+0.03} _{-0.03}	21.52 ^{+0.18} _{-0.18}	2.30E+37	1.92E+35
3907	58736.972192966	565.2 ^{+0.7} _{-0.7}	5.3 ^{+0.8} _{-0.8}	186 ⁺¹⁹ ₋₁₉	1344	15.51 ^{+0.12} _{-0.12}	82.77 ^{+0.10} _{-0.10}	9.35E+37	1.10E+35
3908	58736.972599233	564.0 ^{+0.7} _{-0.7}	8.4 ^{+2.5} _{-2.5}	58 ⁺⁴ ₋₄	1081	4.68 ^{+0.04} _{-0.04}	39.25 ^{+0.09} _{-0.09}	4.44E+37	9.92E+34
3909	58736.972877503	564.1 ^{+1.0} _{-1.0}	2.5 ^{+0.6} _{-0.6}	75 ⁺³¹ ₋₃₁	1390	9.55 ^{+0.07} _{-0.07}	23.79 ^{+0.04} _{-0.04}	2.69E+37	4.86E+34
3910	58736.973041057	564.0 ^{+0.9} _{-0.9}	6.4 ^{+2.0} _{-2.0}	101 ⁺⁴⁵ ₋₄₅	1276	6.50 ^{+0.05} _{-0.05}	41.71 ^{+0.10} _{-0.10}	4.71E+37	1.08E+35
3911	58736.973348525	565.4 ^{+0.5} _{-0.5}	2.7 ^{+0.3} _{-0.3}	198 ⁺²⁶ ₋₂₆	1394	75.85 ^{+6.55} _{-6.55}	206.31 ^{+1.90} _{-1.90}	2.21E+38	2.03E+36
3912	58736.973348721	565.7 ^{+0.5} _{-0.5}	6.7 ^{+0.9} _{-0.9}	168 ⁺¹⁴ ₋₁₄	1171	22.84 ^{+0.17} _{-0.17}	154.13 ^{+0.15} _{-0.15}	1.74E+38	1.70E+35
3913	58736.973659521	564.4 ^{+0.7} _{-0.7}	1.8 ^{+0.5} _{-0.5}	72 ⁺³² ₋₃₂	1200	9.74 ^{+0.07} _{-0.07}	17.47 ^{+0.04} _{-0.04}	1.97E+37	3.99E+34
3914	58736.974219736	564.6 ^{+0.7} _{-0.7}	3.7 ^{+0.5} _{-0.5}	128 ⁺⁷² ₋₇₂	1250	12.45 ^{+0.09} _{-0.09}	45.51 ^{+0.04} _{-0.04}	5.14E+37	5.03E+34
3915	58736.974646085	563.8 ^{+0.8} _{-0.8}	2.4 ^{+0.4} _{-0.4}	77 ⁺⁶³ ₋₆₃	1406	17.32 ^{+0.13} _{-0.13}	42.40 ^{+0.05} _{-0.05}	4.79E+37	5.71E+34
3916	58736.974668831	563.8 ^{+1.1} _{-1.1}	3.5 ^{+1.0} _{-1.0}	80 ⁺²⁶ ₋₂₆	1389	7.47 ^{+0.06} _{-0.06}	25.94 ^{+0.06} _{-0.06}	2.93E+37	6.62E+34
3917	58736.974843038	564.3 ^{+0.7} _{-0.7}	3.3 ^{+0.5} _{-0.5}	285 ⁺⁵⁷ ₋₅₇	1317	20.03 ^{+0.15} _{-0.15}	65.37 ^{+0.07} _{-0.07}	7.39E+37	8.07E+34
3918	58736.975130721	563.6 ^{+1.4} _{-1.4}	3.4 ^{+0.5} _{-0.5}	230 ⁺⁵ ₋₅	1198	6.43 ^{+0.05} _{-0.05}	21.81 ^{+0.19} _{-0.19}	2.33E+37	1.99E+35
3919	58736.975175427	564.4 ^{+0.8} _{-0.8}	4.6 ^{+0.6} _{-0.6}	206 ⁺¹⁹ ₋₁₉	1241	46.68 ^{+4.81} _{-4.81}	213.79 ^{+2.69} _{-2.69}	2.29E+38	2.88E+36
3920	58736.975421024	563.1 ^{+1.2} _{-1.2}	4.1 ^{+1.6} _{-1.6}	86 ⁺⁵⁵ ₋₅₅	1376	5.60 ^{+0.04} _{-0.04}	23.16 ^{+0.07} _{-0.07}	2.62E+37	7.95E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3921	58736.975457626	565.2 ^{+0.2} _{-0.2}	2.9 ^{+0.4} _{-0.4}	70 ⁺³⁸ ₋₃₈	1358	15.28 ^{+0.12} _{-0.12}	44.17 ^{+0.04} _{-0.04}	4.99E+37	4.97E+34
3922	58736.975739356	563.7 ^{+1.3} _{-1.3}	2.9 ^{+0.8} _{-0.8}	63 ⁺¹⁰ ₋₁₀	1385	7.24 ^{+0.06} _{-0.06}	21.28 ^{+0.04} _{-0.04}	2.40E+37	5.06E+34
3923	58736.975865885	562.5 ^{+1.4} _{-1.4}	4.2 ^{+0.4} _{-0.4}	101 ⁺²⁸ ₋₂₈	1113	11.46 ^{+0.09} _{-0.09}	47.79 ^{+0.04} _{-0.04}	5.40E+37	3.96E+34
3924	58736.976184326	563.2 ^{+1.3} _{-1.3}	3.4 ^{+1.1} _{-1.1}	135 ⁺²⁹ ₋₂₉	1338	9.55 ^{+0.07} _{-0.07}	32.47 ^{+0.08} _{-0.08}	3.67E+37	8.80E+34
3925	58736.976241114	563.7 ^{+1.3} _{-1.3}	3.1 ^{+1.0} _{-1.0}	133 ⁺⁴² ₋₄₂	1381	10.84 ^{+0.08} _{-0.08}	33.54 ^{+0.09} _{-0.09}	3.79E+37	9.72E+34
3926	58736.977025094	564.1 ^{+0.9} _{-0.9}	5.5 ^{+1.0} _{-1.0}	104 ⁺²⁵ ₋₂₅	1098	12.21 ^{+0.09} _{-0.09}	67.49 ^{+0.10} _{-0.10}	7.63E+37	1.09E+35
3927	58736.978005175	563.1 ^{+1.2} _{-1.2}	2.3 ^{+0.2} _{-0.2}	253 ⁺⁵⁵ ₋₅₅	1188	24.11 ^{+0.19} _{-0.19}	55.94 ^{+0.04} _{-0.04}	6.32E+37	4.64E+34
3928	58736.978166424	564.2 ^{+0.6} _{-0.6}	3.6 ^{+0.4} _{-0.4}	172 ⁺¹⁸ ₋₁₈	1331	20.61 ^{+0.16} _{-0.16}	73.93 ^{+0.06} _{-0.06}	8.35E+37	6.90E+34
3929	58736.978635169	563.4 ^{+0.9} _{-0.9}	2.3 ^{+0.9} _{-0.9}	117 ⁺⁴³ ₋₄₃	1331	9.36 ^{+0.07} _{-0.07}	21.64 ^{+0.06} _{-0.06}	2.45E+37	7.05E+34
3930	58736.978749945	563.7 ^{+1.3} _{-1.3}	2.8 ^{+0.4} _{-0.4}	131 ⁺³⁰ ₋₃₀	1398	19.74 ^{+0.15} _{-0.15}	56.03 ^{+0.07} _{-0.07}	6.33E+37	7.49E+34
3931	58736.978870456	563.0 ^{+0.9} _{-0.9}	7.4 ^{+2.0} _{-2.0}	108 ⁺⁶⁴ ₋₆₄	1305	10.89 ^{+0.08} _{-0.08}	80.46 ^{+0.17} _{-0.17}	9.09E+37	1.94E+35
3932	58736.979123622	564.6 ^{+0.9} _{-0.9}	4.1 ^{+0.6} _{-0.6}	163 ⁺¹⁷ ₋₁₇	1158	18.54 ^{+0.14} _{-0.14}	75.81 ^{+0.08} _{-0.08}	8.57E+37	9.23E+34
3933	58736.979150790	563.1 ^{+1.3} _{-1.3}	3.0 ^{+0.8} _{-0.8}	108 ⁺³⁹ ₋₃₉	1367	10.17 ^{+0.08} _{-0.08}	30.96 ^{+0.06} _{-0.06}	3.50E+37	6.74E+34
3934	58736.979309239	563.6 ^{+0.1} _{-0.1}	2.9 ^{+0.1} _{-0.1}	417 ⁺³² ₋₃₂	1291	256.92 ^{+6.62} _{-6.62}	742.50 ^{+0.66} _{-0.66}	7.95E+38	7.09E+35
3935	58736.979309305	563.6 ^{+0.1} _{-0.1}	5.8 ^{+0.3} _{-0.3}	456 ⁺⁶ ₋₆	1231	151.77 ^{+4.57} _{-4.57}	883.30 ^{+1.28} _{-1.28}	9.46E+38	1.37E+36
3936	58736.979339463	562.6 ^{+0.4} _{-0.4}	3.9 ^{+1.1} _{-1.1}	51 ⁺⁴ ₋₄	1401	9.17 ^{+0.07} _{-0.07}	35.71 ^{+0.08} _{-0.08}	4.03E+37	8.66E+34
3937	58736.979905432	563.5 ^{+1.1} _{-1.1}	3.5 ^{+1.0} _{-1.0}	77 ⁺¹⁵ ₋₁₅	1304	12.79 ^{+0.10} _{-0.10}	44.77 ^{+0.10} _{-0.10}	5.06E+37	1.10E+35
3938	58736.980296522	562.8 ^{+1.1} _{-1.1}	7.3 ^{+3.0} _{-3.0}	120 ⁺¹⁹ ₋₁₉	1288	11.84 ^{+0.09} _{-0.09}	86.07 ^{+0.28} _{-0.28}	9.73E+37	3.11E+35
3939	58736.980513260	562.9 ^{+1.2} _{-1.2}	2.3 ^{+0.9} _{-0.9}	84 ⁺³³ ₋₃₃	1409	6.39 ^{+0.05} _{-0.05}	14.66 ^{+0.05} _{-0.05}	1.66E+37	5.33E+34
3940	58736.980659732	563.9 ^{+1.1} _{-1.1}	6.2 ^{+1.2} _{-1.2}	79 ⁺¹³ ₋₁₃	1428	11.62 ^{+0.09} _{-0.09}	71.95 ^{+0.11} _{-0.11}	8.12E+37	1.22E+35
3941	58736.980660267	561.6 ^{+0.7} _{-0.7}	5.0 ^{+1.4} _{-1.4}	84 ⁺²² ₋₂₂	1401	5.45 ^{+0.04} _{-0.04}	27.48 ^{+0.06} _{-0.06}	3.10E+37	6.87E+34
3942	58736.980756889	564.0 ^{+1.1} _{-1.1}	2.9 ^{+0.1} _{-0.1}	100 ⁺¹⁸ ₋₁₈	1427	324.33 ^{+6.21} _{-6.21}	927.58 ^{+0.37} _{-0.37}	9.93E+38	3.99E+35
3943	58736.980912023	561.7 ^{+1.0} _{-1.0}	11.2 ^{+2.5} _{-2.5}	109 ⁺²⁹ ₋₂₉	1095	10.19 ^{+0.08} _{-0.08}	113.99 ^{+0.20} _{-0.20}	1.29E+38	2.30E+35
3944	58736.980912093	562.7 ^{+1.2} _{-1.2}	5.4 ^{+1.6} _{-1.6}	60 ⁺¹¹ ₋₁₁	1059	7.90 ^{+0.06} _{-0.06}	42.37 ^{+0.10} _{-0.10}	4.78E+37	1.12E+35
3945	58736.981123465	563.4 ^{+1.3} _{-1.3}	3.3 ^{+0.7} _{-0.7}	93 ⁺⁴⁸ ₋₄₈	1357	10.52 ^{+0.08} _{-0.08}	34.42 ^{+0.06} _{-0.06}	3.89E+37	6.32E+34
3946	58736.981381323	562.4 ^{+1.3} _{-1.3}	3.9 ^{+0.6} _{-0.6}	88 ⁺¹⁰ ₋₁₀	1195	13.12 ^{+0.10} _{-0.10}	50.53 ^{+0.06} _{-0.06}	5.71E+37	7.29E+34
3947	58736.981381984	563.9 ^{+1.0} _{-1.0}	3.7 ^{+1.1} _{-1.1}	51 ⁺³⁹ ₋₃₉	1146	8.82 ^{+0.07} _{-0.07}	32.52 ^{+0.08} _{-0.08}	3.68E+37	8.85E+34
3948	58736.981439071	563.8 ^{+1.1} _{-1.1}	3.0 ^{+0.8} _{-0.8}	91 ⁺³⁴ ₋₃₄	1333	11.91 ^{+0.09} _{-0.09}	35.34 ^{+0.08} _{-0.08}	3.99E+37	8.70E+34
3949	58736.981702235	564.7 ^{+1.1} _{-1.1}	7.3 ^{+0.7} _{-0.7}	166 ⁺³² ₋₃₂	1172	47.62 ^{+3.71} _{-3.71}	349.05 ^{+2.52} _{-2.52}	3.74E+38	2.70E+36
3950	58736.982004134	563.1 ^{+1.3} _{-1.3}	4.0 ^{+1.1} _{-1.1}	141 ⁺⁴³ ₋₄₃	1330	11.30 ^{+0.09} _{-0.09}	44.94 ^{+0.10} _{-0.10}	5.08E+37	1.11E+35
3951	58736.982104800	564.3 ^{+1.3} _{-1.3}	4.8 ^{+1.5} _{-1.5}	59 ⁺¹⁵ ₋₁₅	1366	12.53 ^{+0.10} _{-0.10}	59.97 ^{+0.14} _{-0.14}	6.78E+37	1.63E+35
3952	58736.982428142	563.0 ^{+1.3} _{-1.3}	9.1 ^{+3.2} _{-3.2}	165 ⁺⁴² ₋₄₂	1229	7.89 ^{+0.06} _{-0.06}	71.48 ^{+0.20} _{-0.20}	8.08E+37	2.21E+35
3953	58736.982580998	563.2 ^{+1.1} _{-1.1}	1.9 ^{+0.4} _{-0.4}	198 ⁺⁹³ ₋₉₃	1262	16.54 ^{+0.13} _{-0.13}	31.21 ^{+0.06} _{-0.06}	3.53E+37	6.23E+34
3954	58736.982600375	564.4 ^{+1.0} _{-1.0}	3.3 ^{+0.9} _{-0.9}	82 ⁺²² ₋₂₂	1292	11.24 ^{+0.09} _{-0.09}	36.99 ^{+0.08} _{-0.08}	4.18E+37	9.53E+34
3955	58736.983322584	563.1 ^{+1.2} _{-1.2}	9.7 ^{+0.8} _{-0.8}	222 ⁺⁴⁰ ₋₄₀	1362	47.40 ^{+3.28} _{-3.28}	458.36 ^{+2.62} _{-2.62}	4.91E+38	2.81E+36
3956	58736.983332781	563.3 ^{+1.2} _{-1.2}	4.3 ^{+1.5} _{-1.5}	92 ⁺⁴⁰ ₋₄₀	1294	13.67 ^{+0.11} _{-0.11}	59.04 ^{+0.16} _{-0.16}	6.67E+37	1.85E+35
3957	58736.983680289	565.6 ^{+0.7} _{-0.7}	4.2 ^{+0.4} _{-0.4}	159 ⁺³⁰ ₋₃₀	1338	58.79 ^{+4.81} _{-4.81}	246.33 ^{+1.92} _{-1.92}	2.64E+38	2.06E+36
3958	58736.983778295	564.8 ^{+0.8} _{-0.8}	4.4 ^{+0.7} _{-0.7}	245 ⁺³⁴ ₋₃₄	1321	22.43 ^{+0.18} _{-0.18}	99.31 ^{+0.12} _{-0.12}	1.12E+38	1.37E+35
3959	58736.984130245	563.7 ^{+1.2} _{-1.2}	7.1 ^{+0.6} _{-0.6}	246 ⁺³³ ₋₃₃	1301	50.33 ^{+3.77} _{-3.77}	355.33 ^{+2.34} _{-2.34}	3.80E+38	2.50E+36
3960	58736.984517792	563.4 ^{+1.0} _{-1.0}	3.7 ^{+0.8} _{-0.8}	110 ⁺²² ₋₂₂	1334	14.68 ^{+0.12} _{-0.12}	54.89 ^{+0.09} _{-0.09}	6.20E+37	1.07E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
3961	58736.984982896	563.3 ^{+1.2} _{-1.2}	2.5 ^{+0.6} _{-0.6}	92 ⁺⁵³ ₋₅₃	1398	13.98 ^{+0.11} _{-0.11}	35.17 ^{+0.07} _{-0.07}	3.97E+37	7.75E+34
3962	58736.984994602	564.0 ^{+0.3} _{-0.3}	4.0 ^{+0.5} _{-0.5}	290 ⁺²⁸ ₋₂₈	1152	19.40 ^{+0.16} _{-0.16}	77.65 ^{+0.08} _{-0.08}	8.77E+37	9.12E+34
3963	58736.985090878	563.4 ^{+0.8} _{-0.8}	6.3 ^{+1.6} _{-1.6}	77 ⁺⁴ ₋₄	1416	8.23 ^{+0.07} _{-0.07}	52.00 ^{+0.10} _{-0.10}	5.88E+37	1.16E+35
3964	58736.985136382	564.6 ^{+0.7} _{-0.7}	2.3 ^{+0.6} _{-0.6}	85 ⁺²⁸ ₋₂₈	1390	9.64 ^{+0.08} _{-0.08}	22.45 ^{+0.04} _{-0.04}	2.54E+37	4.95E+34
3965	58736.985136600	563.9 ^{+1.1} _{-1.1}	2.9 ^{+0.7} _{-0.7}	157 ⁺⁴⁹ ₋₄₉	1375	8.77 ^{+0.07} _{-0.07}	25.04 ^{+0.05} _{-0.05}	2.83E+37	5.89E+34
3966	58736.985250949	563.8 ^{+1.0} _{-1.0}	4.8 ^{+1.4} _{-1.4}	65 ⁺³¹ ₋₃₁	1128	10.31 ^{+0.08} _{-0.08}	49.68 ^{+0.12} _{-0.12}	5.61E+37	1.30E+35
3967	58736.985441139	563.0 ^{+1.1} _{-1.1}	5.0 ^{+0.6} _{-0.6}	80 ⁺⁴¹ ₋₄₁	1412	40.24 ^{+4.40} _{-4.40}	202.41 ^{+2.86} _{-2.86}	2.17E+38	3.06E+36
3968	58736.985441602	563.1 ^{+1.3} _{-1.3}	2.0 ^{+1.0} _{-1.0}	186 ⁺¹⁴² ₋₁₄₂	1364	7.12 ^{+0.06} _{-0.06}	14.40 ^{+0.06} _{-0.06}	1.63E+37	6.29E+34
3969	58736.986021613	563.1 ^{+1.2} _{-1.2}	6.8 ^{+2.0} _{-2.0}	101 ⁺⁴ ₋₄	1396	7.17 ^{+0.06} _{-0.06}	48.44 ^{+0.12} _{-0.12}	5.47E+37	1.33E+35
3970	58736.986022778	563.6 ^{+1.3} _{-1.3}	4.0 ^{+1.2} _{-1.2}	105 ⁺¹⁰ ₋₁₀	1183	13.43 ^{+0.11} _{-0.11}	54.32 ^{+0.13} _{-0.13}	6.14E+37	1.44E+35
3971	58736.986469350	562.3 ^{+1.3} _{-1.3}	4.4 ^{+1.7} _{-1.7}	47 ⁺⁵ ₋₅	1419	8.41 ^{+0.07} _{-0.07}	36.94 ^{+0.12} _{-0.12}	4.17E+37	1.31E+35
3972	58736.986469636	563.6 ^{+1.0} _{-1.0}	7.1 ^{+1.9} _{-1.9}	346 ⁺⁵³ ₋₅₃	1299	12.62 ^{+0.10} _{-0.10}	89.60 ^{+0.20} _{-0.20}	1.01E+38	2.29E+35
3973	58736.986759295	564.3 ^{+0.9} _{-0.9}	3.7 ^{+0.6} _{-0.6}	57 ⁺³⁴ ₋₃₄	1353	15.44 ^{+0.13} _{-0.13}	57.88 ^{+0.08} _{-0.08}	6.54E+37	8.50E+34
3974	58736.987351033	562.4 ^{+0.8} _{-0.8}	4.3 ^{+0.9} _{-0.9}	52 ⁺¹² ₋₁₂	1121	11.16 ^{+0.09} _{-0.09}	48.33 ^{+0.08} _{-0.08}	5.46E+37	9.01E+34
3975	58736.987685992	564.7 ^{+0.6} _{-0.6}	3.7 ^{+0.5} _{-0.5}	136 ⁺²⁴ ₋₂₄	1375	16.25 ^{+0.13} _{-0.13}	60.35 ^{+0.07} _{-0.07}	6.82E+37	7.86E+34
3976	58736.987726828	563.6 ^{+0.6} _{-0.6}	5.4 ^{+1.2} _{-1.2}	102 ⁺¹⁷ ₋₁₇	1106	9.95 ^{+0.08} _{-0.08}	53.90 ^{+0.10} _{-0.10}	6.09E+37	1.15E+35
3977	58736.988007875	562.7 ^{+0.1} _{-0.1}	4.5 ^{+0.5} _{-0.5}	282 ⁺⁵² ₋₅₂	1212	53.78 ^{+4.88} _{-4.88}	239.86 ^{+2.29} _{-2.29}	2.57E+38	2.46E+36
3978	58736.988071099	563.4 ^{+1.4} _{-1.4}	5.8 ^{+0.7} _{-0.7}	144 ⁺³¹ ₋₃₁	1280	15.62 ^{+0.13} _{-0.13}	91.20 ^{+0.09} _{-0.09}	1.03E+38	1.05E+35
3979	58736.988193487	563.6 ^{+1.1} _{-1.1}	6.9 ^{+0.8} _{-0.8}	115 ⁺⁶ ₋₆	1366	40.01 ^{+3.76} _{-3.76}	274.87 ^{+2.90} _{-2.90}	2.94E+38	3.10E+36
3980	58736.988470911	564.0 ^{+1.1} _{-1.1}	4.6 ^{+0.7} _{-0.7}	59 ⁺⁸ ₋₈	1221	16.08 ^{+0.13} _{-0.13}	73.50 ^{+0.10} _{-0.10}	8.31E+37	1.12E+35
3981	58736.988702437	563.0 ^{+1.3} _{-1.3}	4.7 ^{+1.4} _{-1.4}	264 ⁺⁴ ₋₄	1195	8.46 ^{+0.07} _{-0.07}	39.70 ^{+0.10} _{-0.10}	4.49E+37	1.08E+35
3982	58736.988703150	563.7 ^{+1.1} _{-1.1}	10.0 ^{+2.6} _{-2.6}	53 ⁺²⁷ ₋₂₇	1380	10.48 ^{+0.09} _{-0.09}	104.97 ^{+0.22} _{-0.22}	1.19E+38	2.54E+35
3983	58736.988853384	563.6 ^{+0.7} _{-0.7}	7.2 ^{+2.2} _{-2.2}	64 ⁺³⁶ ₋₃₆	1089	9.15 ^{+0.08} _{-0.08}	66.15 ^{+0.17} _{-0.17}	7.47E+37	1.90E+35
3984	58736.990012168	563.9 ^{+1.1} _{-1.1}	4.7 ^{+1.4} _{-1.4}	89 ⁺⁴ ₋₄	1404	9.27 ^{+0.08} _{-0.08}	43.90 ^{+0.11} _{-0.11}	4.96E+37	1.27E+35
3985	58736.990311852	563.3 ^{+0.4} _{-0.4}	2.3 ^{+0.4} _{-0.4}	113 ⁺¹⁸ ₋₁₈	1434	17.90 ^{+0.15} _{-0.15}	41.99 ^{+0.06} _{-0.06}	4.74E+37	6.67E+34
3986	58736.990429609	563.2 ^{+1.3} _{-1.3}	5.9 ^{+0.9} _{-0.9}	153 ⁺¹³ ₋₁₃	1122	6.83 ^{+0.06} _{-0.06}	40.45 ^{+0.39} _{-0.39}	4.33E+37	4.14E+35
3987	58736.990991944	563.2 ^{+1.3} _{-1.3}	5.3 ^{+1.2} _{-1.2}	153 ⁺¹³ ₋₁₃	1122	13.22 ^{+0.11} _{-0.11}	70.47 ^{+0.13} _{-0.13}	7.96E+37	1.51E+35
3988	58736.991308185	563.9 ^{+1.2} _{-1.2}	5.2 ^{+2.1} _{-2.1}	126 ⁺⁸⁶ ₋₈₆	1088	9.38 ^{+0.08} _{-0.08}	48.48 ^{+0.17} _{-0.17}	5.48E+37	1.92E+35
3989	58736.991686647	563.6 ^{+1.4} _{-1.4}	4.9 ^{+0.9} _{-0.9}	130 ⁺³² ₋₃₂	1413	15.97 ^{+0.14} _{-0.14}	78.20 ^{+0.12} _{-0.12}	8.84E+37	1.39E+35
3990	58736.991873112	563.3 ^{+0.1} _{-0.1}	3.5 ^{+0.2} _{-0.2}	321 ⁺¹³ ₋₁₃	1268	137.12 ^{+5.40} _{-5.40}	482.66 ^{+0.86} _{-0.86}	5.17E+38	9.25E+35
3991	58736.992440543	564.8 ^{+0.7} _{-0.7}	3.6 ^{+0.4} _{-0.4}	113 ⁺²⁵ ₋₂₅	1423	23.59 ^{+0.20} _{-0.20}	84.84 ^{+0.07} _{-0.07}	9.59E+37	8.28E+34
3992	58736.992440656	564.7 ^{+0.8} _{-0.8}	3.4 ^{+1.0} _{-1.0}	58 ⁺⁴ ₋₄	1405	8.59 ^{+0.07} _{-0.07}	29.07 ^{+0.07} _{-0.07}	3.28E+37	8.43E+34
3993	58736.992441205	562.8 ^{+1.0} _{-1.0}	4.4 ^{+0.6} _{-0.6}	202 ⁺²⁵ ₋₂₅	1379	16.05 ^{+0.14} _{-0.14}	70.81 ^{+0.09} _{-0.09}	8.00E+37	9.79E+34
3994	58736.992441308	563.1 ^{+1.1} _{-1.1}	3.6 ^{+0.6} _{-0.6}	251 ⁺¹⁷ ₋₁₇	1345	20.96 ^{+0.18} _{-0.18}	75.91 ^{+0.11} _{-0.11}	8.58E+37	1.28E+35
3995	58736.992441514	561.9 ^{+1.2} _{-1.2}	3.9 ^{+1.8} _{-1.8}	79 ⁺⁴⁶ ₋₄₆	1345	7.51 ^{+0.07} _{-0.07}	29.19 ^{+0.12} _{-0.12}	3.30E+37	1.30E+35
3996	58736.992442079	563.7 ^{+1.1} _{-1.1}	4.9 ^{+1.3} _{-1.3}	104 ⁺³⁷ ₋₃₇	1263	13.77 ^{+0.12} _{-0.12}	67.29 ^{+0.16} _{-0.16}	7.60E+37	1.77E+35
3997	58736.992456966	563.5 ^{+1.1} _{-1.1}	1.6 ^{+0.5} _{-0.5}	107 ⁺¹⁰ ₋₁₀	1302	6.66 ^{+0.06} _{-0.06}	10.72 ^{+0.03} _{-0.03}	1.21E+37	3.51E+34
3998	58736.992457081	563.5 ^{+1.2} _{-1.2}	5.6 ^{+0.9} _{-0.9}	160 ⁺⁷⁴ ₋₇₄	1120	15.57 ^{+0.13} _{-0.13}	87.48 ^{+0.12} _{-0.12}	9.89E+37	1.35E+35
3999	58736.992588627	562.9 ^{+1.5} _{-1.5}	4.6 ^{+1.3} _{-1.3}	61 ⁺⁶³ ₋₆₃	1432	14.37 ^{+0.12} _{-0.12}	66.71 ^{+0.17} _{-0.17}	7.54E+37	1.88E+35
4000	58736.992605557	562.5 ^{+1.4} _{-1.4}	6.1 ^{+2.1} _{-2.1}	56 ⁺³² ₋₃₂	1370	13.05 ^{+0.11} _{-0.11}	79.89 ^{+0.24} _{-0.24}	9.03E+37	2.72E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4001	58736.992625001	564.0 ^{+0.4} _{-0.4}	3.6 ^{+1.4} _{-1.4}	111 ⁺³⁰ ₋₃₀	1395	10.99 ^{+0.10} _{-0.10}	39.43 ^{+0.13} _{-0.13}	4.46E+37	1.46E+35
4002	58736.992712572	565.4 ^{+0.9} _{-0.9}	3.6 ^{+0.3} _{-0.3}	85 ⁺³⁰ ₋₃₀	1402	70.28 ^{+5.02} _{-5.02}	256.52 ^{+1.56} _{-1.56}	2.75E+38	1.67E+36
4003	58736.992744054	563.0 ^{+0.1} _{-0.1}	3.0 ^{+0.2} _{-0.2}	256 ⁺²⁹ ₋₂₉	1194	80.17 ^{+5.72} _{-5.72}	239.71 ^{+1.43} _{-1.43}	2.57E+38	1.53E+36
4004	58736.992860529	563.0 ^{+1.3} _{-1.3}	3.9 ^{+1.4} _{-1.4}	48 ⁺²⁰ ₋₂₀	1421	9.49 ^{+0.08} _{-0.08}	36.80 ^{+0.12} _{-0.12}	4.16E+37	1.32E+35
4005	58736.993294968	563.0 ^{+1.2} _{-1.2}	7.6 ^{+1.5} _{-1.5}	54 ⁺³⁷ ₋₃₇	1367	14.11 ^{+0.12} _{-0.12}	107.24 ^{+0.19} _{-0.19}	1.21E+38	2.11E+35
4006	58736.993418349	561.8 ^{+1.1} _{-1.1}	2.3 ^{+0.6} _{-0.6}	48 ⁺¹⁰ ₋₁₀	1319	13.61 ^{+0.12} _{-0.12}	31.24 ^{+0.07} _{-0.07}	3.53E+37	8.21E+34
4007	58736.993544808	563.9 ^{+0.8} _{-0.8}	5.3 ^{+1.6} _{-1.6}	68 ⁺¹⁹ ₋₁₉	1332	10.62 ^{+0.09} _{-0.09}	56.80 ^{+0.14} _{-0.14}	6.42E+37	1.64E+35
4008	58736.993836391	562.9 ^{+1.2} _{-1.2}	2.7 ^{+0.6} _{-0.6}	58 ⁺²³ ₋₂₃	1111	9.34 ^{+0.08} _{-0.08}	25.64 ^{+0.05} _{-0.05}	2.90E+37	5.90E+34
4009	58736.993932523	564.6 ^{+0.9} _{-0.9}	5.6 ^{+0.9} _{-0.9}	172 ⁺²⁶ ₋₂₆	1310	14.86 ^{+0.13} _{-0.13}	82.88 ^{+0.11} _{-0.11}	9.37E+37	1.29E+35
4010	58736.994362327	563.2 ^{+1.1} _{-1.1}	4.6 ^{+0.9} _{-0.9}	55 ⁺³¹ ₋₃₁	1390	8.82 ^{+0.08} _{-0.08}	40.21 ^{+0.07} _{-0.07}	4.54E+37	7.41E+34
4011	58736.994587129	564.5 ^{+1.2} _{-1.2}	5.5 ^{+0.6} _{-0.6}	186 ⁺²¹ ₋₂₁	1361	18.00 ^{+0.16} _{-0.16}	99.00 ^{+0.09} _{-0.09}	1.12E+38	9.82E+34
4012	58736.994589849	563.6 ^{+0.9} _{-0.9}	4.6 ^{+0.5} _{-0.5}	165 ⁺⁴⁴ ₋₄₄	1156	17.91 ^{+0.16} _{-0.16}	82.19 ^{+0.07} _{-0.07}	9.29E+37	8.43E+34
4013	58736.994627814	563.2 ^{+0.0} _{-0.0}	3.0 ^{+0.0} _{-0.0}	494 ⁺² ₋₂	1252	836.42 ^{+6.32} _{-6.32}	2509.26 ^{+0.19} _{-0.19}	2.69E+39	2.03E+35
4014	58736.994760189	565.3 ^{+0.6} _{-0.6}	2.4 ^{+0.3} _{-0.3}	85 ⁺²⁷ ₋₂₇	1411	20.99 ^{+0.18} _{-0.18}	49.96 ^{+0.06} _{-0.06}	5.65E+37	7.01E+34
4015	58736.994796658	562.8 ^{+1.1} _{-1.1}	10.1 ^{+2.1} _{-2.1}	81 ⁺⁵³ ₋₅₃	1229	12.23 ^{+0.11} _{-0.11}	123.06 ^{+0.23} _{-0.23}	1.39E+38	2.58E+35
4016	58736.994992395	564.2 ^{+0.5} _{-0.5}	1.7 ^{+0.3} _{-0.3}	146 ⁺⁶ ₋₆	1231	10.69 ^{+0.09} _{-0.09}	18.45 ^{+0.03} _{-0.03}	2.08E+37	3.26E+34
4017	58736.994992511	564.7 ^{+0.4} _{-0.4}	2.9 ^{+0.2} _{-0.2}	177 ⁺⁷ ₋₇	1396	127.86 ^{+6.08} _{-6.08}	372.07 ^{+0.97} _{-0.97}	3.98E+38	1.04E+36
4018	58736.995695971	563.9 ^{+1.2} _{-1.2}	4.5 ^{+0.8} _{-0.8}	59 ⁺³² ₋₃₂	1396	15.60 ^{+0.14} _{-0.14}	70.29 ^{+0.11} _{-0.11}	7.94E+37	1.25E+35
4019	58736.995696265	562.6 ^{+1.3} _{-1.3}	2.7 ^{+1.0} _{-1.0}	83 ⁺⁵⁵ ₋₅₅	1399	8.79 ^{+0.08} _{-0.08}	23.82 ^{+0.07} _{-0.07}	2.69E+37	8.40E+34
4020	58736.995799964	563.0 ^{+0.5} _{-0.5}	1.7 ^{+0.2} _{-0.2}	74 ⁺²⁰ ₋₂₀	1149	18.43 ^{+0.16} _{-0.16}	31.64 ^{+0.03} _{-0.03}	3.58E+37	3.26E+34
4021	58736.996798168	563.6 ^{+1.1} _{-1.1}	8.3 ^{+3.4} _{-3.4}	153 ⁺³⁸ ₋₃₈	1171	8.66 ^{+0.08} _{-0.08}	71.56 ^{+0.26} _{-0.26}	8.09E+37	2.94E+35
4022	58736.997139962	563.7 ^{+1.2} _{-1.2}	3.9 ^{+0.8} _{-0.8}	208 ⁺⁷² ₋₇₂	1306	10.87 ^{+0.10} _{-0.10}	42.23 ^{+0.08} _{-0.08}	4.77E+37	8.80E+34
4023	58736.997496080	562.3 ^{+1.0} _{-1.0}	5.3 ^{+1.1} _{-1.1}	112 ⁺²² ₋₂₂	1362	11.80 ^{+0.11} _{-0.11}	62.97 ^{+0.11} _{-0.11}	7.12E+37	1.30E+35
4024	58736.997574847	563.7 ^{+0.4} _{-0.4}	2.4 ^{+0.3} _{-0.3}	277 ⁺⁶⁴ ₋₆₄	1184	19.66 ^{+0.18} _{-0.18}	47.28 ^{+0.05} _{-0.05}	5.34E+37	5.75E+34
4025	58736.997793423	563.6 ^{+0.9} _{-0.9}	6.3 ^{+2.0} _{-2.0}	260 ⁺⁴³ ₋₄₃	1255	7.64 ^{+0.07} _{-0.07}	48.13 ^{+0.14} _{-0.14}	5.44E+37	1.55E+35
4026	58736.998063598	563.6 ^{+0.1} _{-0.1}	4.0 ^{+0.0} _{-0.0}	481 ⁺¹⁵ ₋₁₅	1259	945.19 ^{+7.44} _{-7.44}	3752.40 ^{+0.30} _{-0.30}	4.02E+39	3.19E+35
4027	58736.998275308	564.0 ^{+0.7} _{-0.7}	4.8 ^{+1.4} _{-1.4}	104 ⁺⁵⁰ ₋₅₀	1344	8.86 ^{+0.08} _{-0.08}	42.18 ^{+0.11} _{-0.11}	4.77E+37	1.21E+35
4028	58736.998511825	563.2 ^{+1.4} _{-1.4}	2.5 ^{+0.5} _{-0.5}	185 ⁺⁴⁹ ₋₄₉	1315	14.10 ^{+0.12} _{-0.12}	34.75 ^{+0.06} _{-0.06}	3.93E+37	6.72E+34
4029	58736.998635948	564.1 ^{+1.0} _{-1.0}	4.5 ^{+0.8} _{-0.8}	96 ⁺¹³ ₋₁₃	1176	17.28 ^{+0.15} _{-0.15}	77.26 ^{+0.12} _{-0.12}	8.73E+37	1.35E+35
4030	58736.998719807	564.2 ^{+1.1} _{-1.1}	4.5 ^{+1.3} _{-1.3}	117 ⁺⁹⁰ ₋₉₀	1292	11.67 ^{+0.10} _{-0.10}	52.59 ^{+0.13} _{-0.13}	5.94E+37	1.50E+35
4031	58736.998740972	563.2 ^{+1.3} _{-1.3}	5.6 ^{+1.5} _{-1.5}	68 ⁺¹⁶ ₋₁₆	1395	10.53 ^{+0.09} _{-0.09}	59.34 ^{+0.14} _{-0.14}	6.71E+37	1.63E+35
4032	58736.998814237	561.9 ^{+0.7} _{-0.7}	4.0 ^{+0.9} _{-0.9}	280 ⁺⁷¹ ₋₇₁	1312	12.70 ^{+0.11} _{-0.11}	51.05 ^{+0.10} _{-0.10}	5.77E+37	1.09E+35
4033	58736.999022432	562.4 ^{+1.2} _{-1.2}	5.1 ^{+2.2} _{-2.2}	73 ⁺³² ₋₃₂	1315	6.64 ^{+0.06} _{-0.06}	33.60 ^{+0.13} _{-0.13}	3.80E+37	1.46E+35
4034	58736.999023027	562.8 ^{+1.3} _{-1.3}	7.0 ^{+1.9} _{-1.9}	40 ⁺⁶ ₋₆	1453	12.46 ^{+0.11} _{-0.11}	87.38 ^{+0.21} _{-0.21}	9.87E+37	2.40E+35
4035	58736.999023272	563.0 ^{+1.2} _{-1.2}	12.7 ^{+2.7} _{-2.7}	100 ⁺²⁸ ₋₂₈	1338	14.06 ^{+0.12} _{-0.12}	178.75 ^{+0.33} _{-0.33}	2.02E+38	3.76E+35
4036	58736.999362938	562.9 ^{+1.2} _{-1.2}	3.3 ^{+0.8} _{-0.8}	64 ⁺⁴¹ ₋₄₁	1312	13.89 ^{+0.12} _{-0.12}	45.24 ^{+0.09} _{-0.09}	5.11E+37	1.05E+35
4037	58736.999439305	563.4 ^{+1.3} _{-1.3}	4.3 ^{+1.1} _{-1.1}	55 ⁺²⁵ ₋₂₅	1402	10.78 ^{+0.10} _{-0.10}	46.00 ^{+0.11} _{-0.11}	5.20E+37	1.24E+35
4038	58736.999518724	565.1 ^{+0.6} _{-0.6}	4.1 ^{+0.8} _{-0.8}	236 ⁺²⁵ ₋₂₅	1243	15.30 ^{+0.14} _{-0.14}	63.07 ^{+0.11} _{-0.11}	7.13E+37	1.23E+35
4039	58736.999610290	564.2 ^{+0.7} _{-0.7}	1.7 ^{+0.6} _{-0.6}	67 ⁺²⁸ ₋₂₈	1356	6.90 ^{+0.06} _{-0.06}	11.67 ^{+0.04} _{-0.04}	1.32E+37	4.12E+34
4040	58736.999790388	564.2 ^{+1.1} _{-1.1}	7.3 ^{+0.8} _{-0.8}	181 ⁺⁴⁷ ₋₄₇	1367	15.89 ^{+0.14} _{-0.14}	115.75 ^{+0.12} _{-0.12}	1.31E+38	1.35E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4041	58736.999996990	563.3 ^{+1.2} _{-1.2}	9.7 ^{+5.1} _{-5.1}	151 ⁺⁶ ₋₆	1362	7.62 ^{+0.07} _{-0.07}	73.78 ^{+0.36} _{-0.36}	8.34E+37	4.06E+35
4042	58736.999997700	562.8 ^{+0.9} _{-0.9}	1.9 ^{+0.9} _{-0.9}	25 ⁺³ ₋₃	1379	7.63 ^{+0.07} _{-0.07}	14.34 ^{+0.06} _{-0.06}	1.62E+37	7.09E+34
4043	58737.000252496	563.0 ^{+1.4} _{-1.4}	6.6 ^{+1.0} _{-1.0}	97 ⁺³ ₋₃	1392	9.56 ^{+0.09} _{-0.09}	63.31 ^{+0.08} _{-0.08}	7.15E+37	9.58E+34
4044	58737.000269472	565.4 ^{+0.6} _{-0.6}	3.6 ^{+0.6} _{-0.6}	117 ⁺³³ ₋₃₃	1412	13.49 ^{+0.12} _{-0.12}	48.27 ^{+0.07} _{-0.07}	5.45E+37	7.83E+34
4045	58737.000553589	564.5 ^{+0.9} _{-0.9}	4.2 ^{+0.4} _{-0.4}	175 ⁺⁴⁹ ₋₄₉	1357	67.07 ^{+4.78} _{-4.78}	283.71 ^{+1.67} _{-1.67}	3.04E+38	1.79E+36
4046	58737.000554315	565.9 ^{+0.2} _{-0.2}	3.1 ^{+0.5} _{-0.5}	201 ⁺³² ₋₃₂	1159	41.75 ^{+5.71} _{-5.71}	130.26 ^{+2.91} _{-2.91}	1.39E+38	3.12E+36
4047	58737.000633316	563.7 ^{+1.1} _{-1.1}	5.9 ^{+3.6} _{-3.6}	172 ⁺¹³ ₋₁₃	1358	5.55 ^{+0.05} _{-0.05}	32.55 ^{+0.18} _{-0.18}	3.68E+37	2.06E+35
4048	58737.001426786	565.6 ^{+0.9} _{-0.9}	4.6 ^{+0.3} _{-0.3}	235 ⁺¹¹ ₋₁₁	1367	87.06 ^{+4.43} _{-4.43}	403.96 ^{+1.24} _{-1.24}	4.32E+38	1.33E+36
4049	58737.001937564	564.0 ^{+1.2} _{-1.2}	3.4 ^{+1.2} _{-1.2}	85 ⁺¹⁴ ₋₁₄	1404	11.11 ^{+0.10} _{-0.10}	37.86 ^{+0.13} _{-0.13}	4.28E+37	1.44E+35
4050	58737.002339975	564.1 ^{+0.9} _{-0.9}	9.0 ^{+1.9} _{-1.9}	105 ⁺¹⁸ ₋₁₈	1171	10.47 ^{+0.10} _{-0.10}	94.68 ^{+0.18} _{-0.18}	1.07E+38	2.06E+35
4051	58737.002679425	563.7 ^{+1.4} _{-1.4}	5.0 ^{+1.2} _{-1.2}	103 ⁺²⁰ ₋₂₀	1389	12.84 ^{+0.12} _{-0.12}	64.22 ^{+0.15} _{-0.15}	7.26E+37	1.67E+35
4052	58737.002790542	563.3 ^{+1.1} _{-1.1}	7.8 ^{+2.4} _{-2.4}	134 ⁺⁴³ ₋₄₃	1316	9.39 ^{+0.09} _{-0.09}	73.00 ^{+0.21} _{-0.21}	8.25E+37	2.39E+35
4053	58737.002924004	563.1 ^{+1.2} _{-1.2}	4.0 ^{+0.6} _{-0.6}	152 ⁺¹⁴ ₋₁₄	1120	20.65 ^{+0.19} _{-0.19}	82.48 ^{+0.11} _{-0.11}	9.32E+37	1.29E+35
4054	58737.003356929	563.3 ^{+0.3} _{-0.3}	4.4 ^{+1.0} _{-1.0}	86 ⁺²⁸ ₋₂₈	1188	12.77 ^{+0.12} _{-0.12}	56.10 ^{+0.12} _{-0.12}	6.34E+37	1.31E+35
4055	58737.003357166	562.3 ^{+0.9} _{-0.9}	6.4 ^{+0.6} _{-0.6}	148 ⁺¹⁵ ₋₁₅	1349	51.04 ^{+4.35} _{-4.35}	324.10 ^{+2.78} _{-2.78}	3.47E+38	2.98E+36
4056	58737.003359969	563.2 ^{+1.3} _{-1.3}	6.4 ^{+1.5} _{-1.5}	81 ⁺³⁵ ₋₃₅	1189	11.75 ^{+0.11} _{-0.11}	75.09 ^{+0.17} _{-0.17}	8.49E+37	1.87E+35
4057	58737.003470156	564.3 ^{+1.0} _{-1.0}	5.7 ^{+0.9} _{-0.9}	214 ⁺⁴³ ₋₄₃	1307	15.53 ^{+0.15} _{-0.15}	87.77 ^{+0.13} _{-0.13}	9.92E+37	1.49E+35
4058	58737.003509990	563.4 ^{+0.5} _{-0.5}	4.5 ^{+0.6} _{-0.6}	169 ⁺³⁸ ₋₃₈	1179	18.30 ^{+0.17} _{-0.17}	82.42 ^{+0.11} _{-0.11}	9.31E+37	1.21E+35
4059	58737.004022781	564.0 ^{+1.2} _{-1.2}	3.1 ^{+0.5} _{-0.5}	124 ⁺²⁶ ₋₂₆	1334	14.79 ^{+0.14} _{-0.14}	45.14 ^{+0.07} _{-0.07}	5.10E+37	7.91E+34
4060	58737.004023127	563.1 ^{+1.3} _{-1.3}	2.0 ^{+1.1} _{-1.1}	137 ⁺³² ₋₃₂	1401	7.64 ^{+0.07} _{-0.07}	15.66 ^{+0.08} _{-0.08}	1.77E+37	9.18E+34
4061	58737.004023417	562.8 ^{+1.4} _{-1.4}	4.3 ^{+0.9} _{-0.9}	187 ⁺²² ₋₂₂	1229	10.59 ^{+0.10} _{-0.10}	45.80 ^{+0.09} _{-0.09}	5.18E+37	1.01E+35
4062	58737.004065445	564.4 ^{+1.0} _{-1.0}	5.5 ^{+0.6} _{-0.6}	319 ⁺²³ ₋₂₃	1324	21.67 ^{+0.21} _{-0.21}	119.73 ^{+0.13} _{-0.13}	1.35E+38	1.49E+35
4063	58737.004447731	564.6 ^{+1.0} _{-1.0}	3.0 ^{+1.1} _{-1.1}	171 ⁺⁷⁷ ₋₇₇	1247	6.23 ^{+0.06} _{-0.06}	18.59 ^{+0.06} _{-0.06}	2.10E+37	7.19E+34
4064	58737.004930921	563.0 ^{+0.2} _{-0.2}	3.8 ^{+1.0} _{-1.0}	110 ⁺²⁰ ₋₂₀	1397	9.93 ^{+0.10} _{-0.10}	37.54 ^{+0.10} _{-0.10}	4.24E+37	1.10E+35
4065	58737.005830991	562.7 ^{+0.7} _{-0.7}	3.5 ^{+0.9} _{-0.9}	67 ⁺²³ ₋₂₃	1404	11.17 ^{+0.11} _{-0.11}	38.63 ^{+0.10} _{-0.10}	4.37E+37	1.15E+35
4066	58737.006115563	564.0 ^{+1.0} _{-1.0}	5.6 ^{+0.7} _{-0.7}	69 ⁺⁴¹ ₋₄₁	1300	11.62 ^{+0.11} _{-0.11}	64.81 ^{+0.08} _{-0.08}	7.32E+37	8.61E+34
4067	58737.006188164	562.9 ^{+0.5} _{-0.5}	4.9 ^{+1.7} _{-1.7}	110 ⁺²⁵ ₋₂₅	1201	7.84 ^{+0.07} _{-0.07}	38.72 ^{+0.12} _{-0.12}	4.37E+37	1.40E+35
4068	58738.959144259	564.5 ^{+0.8} _{-0.8}	4.5 ^{+0.6} _{-0.6}	176 ⁺²⁹ ₋₂₉	1229	10.15 ^{+0.07} _{-0.07}	45.57 ^{+0.38} _{-0.38}	4.88E+37	4.07E+35
4069	58738.959325386	564.8 ^{+0.7} _{-0.7}	7.6 ^{+1.1} _{-1.1}	245 ⁺²⁰ ₋₂₀	1145	8.11 ^{+0.06} _{-0.06}	61.77 ^{+0.51} _{-0.51}	6.61E+37	5.50E+35
4070	58738.959757101	562.8 ^{+1.2} _{-1.2}	6.6 ^{+1.0} _{-1.0}	145 ⁺²² ₋₂₂	1097	10.40 ^{+0.08} _{-0.08}	68.80 ^{+0.58} _{-0.58}	7.36E+37	6.16E+35
4071	58738.959989203	563.2 ^{+1.4} _{-1.4}	8.6 ^{+0.9} _{-0.9}	191 ⁺⁶⁰ ₋₆₀	1367	7.52 ^{+0.60} _{-0.60}	64.60 ^{+0.52} _{-0.52}	6.91E+37	5.52E+35
4072	58738.959989277	563.2 ^{+1.4} _{-1.4}	6.3 ^{+0.8} _{-0.8}	230 ⁺⁵³ ₋₅₃	1368	47.31 ^{+2.80} _{-2.80}	298.53 ^{+2.27} _{-2.27}	3.20E+38	2.43E+36
4073	58738.960038802	564.4 ^{+0.9} _{-0.9}	6.8 ^{+1.1} _{-1.1}	72 ⁺²⁰ ₋₂₀	1134	4.90 ^{+0.67} _{-0.67}	33.37 ^{+0.76} _{-0.76}	3.57E+37	8.18E+35
4074	58738.960040649	563.1 ^{+1.3} _{-1.3}	3.4 ^{+0.6} _{-0.6}	72 ⁺⁴ ₋₄	1353	6.16 ^{+0.88} _{-0.88}	20.82 ^{+0.50} _{-0.50}	2.23E+37	5.37E+35
4075	58738.960642120	562.8 ^{+1.2} _{-1.2}	4.0 ^{+1.0} _{-1.0}	47 ⁺³¹ ₋₃₁	1352	8.83 ^{+0.07} _{-0.07}	35.50 ^{+0.06} _{-0.06}	4.01E+37	7.20E+34
4076	58738.961026948	563.3 ^{+1.2} _{-1.2}	8.2 ^{+1.2} _{-1.2}	65 ⁺²⁵ ₋₂₅	1381	5.81 ^{+0.69} _{-0.69}	47.35 ^{+0.83} _{-0.83}	5.07E+37	8.94E+35
4077	58738.961762538	562.4 ^{+1.2} _{-1.2}	5.7 ^{+1.8} _{-1.8}	87 ⁺¹⁰⁸ ₋₁₀₈	1082	5.08 ^{+0.04} _{-0.04}	28.78 ^{+0.07} _{-0.07}	3.25E+37	7.45E+34
4078	58738.962949963	563.0 ^{+0.9} _{-0.9}	4.3 ^{+1.5} _{-1.5}	113 ⁺²⁵ ₋₂₅	1319	5.99 ^{+0.04} _{-0.04}	25.69 ^{+0.06} _{-0.06}	2.90E+37	7.26E+34
4079	58738.962974177	563.6 ^{+1.3} _{-1.3}	4.0 ^{+0.6} _{-0.6}	136 ⁺¹³ ₋₁₃	1092	6.81 ^{+0.81} _{-0.81}	26.90 ^{+0.45} _{-0.45}	2.88E+37	4.86E+35
4080	58738.963289159	563.8 ^{+1.4} _{-1.4}	5.8 ^{+0.7} _{-0.7}	90 ⁺¹⁸ ₋₁₈	1344	7.34 ^{+0.72} _{-0.72}	42.35 ^{+0.50} _{-0.50}	4.53E+37	5.32E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4081	58738.963482492	563.1 ^{+1.2} _{-1.2}	6.5 ^{+2.5} _{-2.5}	30 ⁺⁵ ₋₅	1440	4.49 ^{+0.03} _{-0.03}	29.31 ^{+0.08} _{-0.08}	3.31E+37	9.15E+34
4082	58738.964651030	561.6 ^{+0.8} _{-0.8}	7.8 ^{+4.3} _{-4.3}	73 ⁺⁹ ₋₉	1175	3.52 ^{+0.03} _{-0.03}	27.35 ^{+0.11} _{-0.11}	3.09E+37	1.25E+35
4083	58738.964803196	562.7 ^{+1.2} _{-1.2}	4.5 ^{+1.1} _{-1.1}	66 ⁺⁷² ₋₇₂	1336	6.81 ^{+0.05} _{-0.05}	30.70 ^{+0.06} _{-0.06}	3.47E+37	6.40E+34
4084	58738.965177139	561.1 ^{+0.6} _{-0.6}	4.0 ^{+1.5} _{-1.5}	50 ⁺⁶ ₋₆	1384	3.40 ^{+0.03} _{-0.03}	13.46 ^{+0.04} _{-0.04}	1.52E+37	4.25E+34
4085	58738.965302217	562.0 ^{+0.5} _{-0.5}	3.9 ^{+1.5} _{-1.5}	75 ⁺²⁷ ₋₂₇	1143	4.76 ^{+0.04} _{-0.04}	18.32 ^{+0.05} _{-0.05}	2.07E+37	5.87E+34
4086	58738.966051566	563.7 ^{+1.3} _{-1.3}	5.0 ^{+1.3} _{-1.3}	81 ⁺³⁹ ₋₃₉	1401	6.98 ^{+0.05} _{-0.05}	34.91 ^{+0.07} _{-0.07}	3.94E+37	7.74E+34
4087	58738.966078655	563.1 ^{+0.2} _{-0.2}	2.0 ^{+0.2} _{-0.2}	123 ⁺¹⁷ ₋₁₇	1364	17.20 ^{+1.50} _{-1.50}	33.54 ^{+0.33} _{-0.33}	3.59E+37	3.53E+35
4088	58738.967036742	563.4 ^{+1.2} _{-1.2}	8.6 ^{+1.6} _{-1.6}	62 ⁺³⁷ ₋₃₇	1420	4.53 ^{+0.64} _{-0.64}	39.00 ^{+0.99} _{-0.99}	4.18E+37	1.06E+36
4089	58738.967966698	565.1 ^{+1.0} _{-1.0}	2.9 ^{+0.6} _{-0.6}	211 ⁺¹³ ₋₁₃	1341	13.29 ^{+3.11} _{-3.11}	38.67 ^{+1.71} _{-1.71}	4.14E+37	1.83E+36
4090	58738.967966731	565.1 ^{+1.0} _{-1.0}	6.8 ^{+1.8} _{-1.8}	186 ⁺¹⁰ ₋₁₀	1319	5.99 ^{+1.68} _{-1.68}	40.67 ^{+2.94} _{-2.94}	4.35E+37	3.15E+36
4091	58738.968376386	564.6 ^{+1.0} _{-1.0}	6.8 ^{+0.7} _{-0.7}	185 ⁺²⁵ ₋₂₅	1390	9.12 ^{+0.74} _{-0.74}	61.92 ^{+0.50} _{-0.50}	6.63E+37	5.39E+35
4092	58738.969332353	564.7 ^{+0.8} _{-0.8}	3.8 ^{+0.8} _{-0.8}	84 ⁺²⁴ ₋₂₄	1250	9.68 ^{+0.07} _{-0.07}	37.10 ^{+0.06} _{-0.06}	4.19E+37	6.77E+34
4093	58738.969637461	562.8 ^{+1.2} _{-1.2}	3.3 ^{+0.7} _{-0.7}	150 ⁺¹⁸ ₋₁₈	1126	8.90 ^{+0.07} _{-0.07}	29.50 ^{+0.05} _{-0.05}	3.33E+37	5.67E+34
4094	58738.969782949	564.4 ^{+1.1} _{-1.1}	4.5 ^{+1.1} _{-1.1}	113 ⁺³⁰ ₋₃₀	1414	8.17 ^{+0.06} _{-0.06}	37.08 ^{+0.07} _{-0.07}	4.19E+37	7.54E+34
4095	58738.969881538	562.2 ^{+0.9} _{-0.9}	6.6 ^{+2.3} _{-2.3}	103 ⁺¹⁸ ₋₁₈	1338	5.68 ^{+0.04} _{-0.04}	37.36 ^{+0.10} _{-0.10}	4.22E+37	1.11E+35
4096	58738.969938986	564.7 ^{+0.5} _{-0.5}	4.1 ^{+0.8} _{-0.8}	75 ⁺⁴¹ ₋₄₁	1339	11.74 ^{+0.09} _{-0.09}	47.90 ^{+0.07} _{-0.07}	5.41E+37	7.86E+34
4097	58738.969966100	562.9 ^{+0.9} _{-0.9}	2.5 ^{+0.4} _{-0.4}	64 ⁺¹⁶ ₋₁₆	1338	14.85 ^{+0.11} _{-0.11}	36.59 ^{+0.05} _{-0.05}	4.14E+37	5.48E+34
4098	58738.970218848	563.8 ^{+1.3} _{-1.3}	4.0 ^{+0.8} _{-0.8}	134 ⁺²⁶ ₋₂₆	1347	10.83 ^{+0.08} _{-0.08}	43.00 ^{+0.07} _{-0.07}	4.86E+37	7.82E+34
4099	58738.970380128	563.9 ^{+1.2} _{-1.2}	3.4 ^{+0.5} _{-0.5}	141 ⁺⁸ ₋₈	1316	7.70 ^{+0.89} _{-0.89}	26.57 ^{+0.42} _{-0.42}	2.84E+37	4.48E+35
4100	58738.970859409	563.2 ^{+1.0} _{-1.0}	2.9 ^{+0.9} _{-0.9}	246 ⁺⁵ ₋₅	1198	6.50 ^{+0.05} _{-0.05}	18.74 ^{+0.05} _{-0.05}	2.12E+37	5.24E+34
4101	58738.971257694	564.0 ^{+0.9} _{-0.9}	3.0 ^{+1.3} _{-1.3}	53 ⁺⁴ ₋₄	1398	5.21 ^{+0.04} _{-0.04}	15.87 ^{+0.05} _{-0.05}	1.79E+37	5.86E+34
4102	58738.971257954	562.8 ^{+1.3} _{-1.3}	6.0 ^{+0.9} _{-0.9}	135 ⁺³⁸ ₋₃₈	1397	6.26 ^{+0.75} _{-0.75}	37.31 ^{+0.65} _{-0.65}	3.99E+37	6.98E+35
4103	58738.971507048	563.8 ^{+1.1} _{-1.1}	4.8 ^{+1.0} _{-1.0}	101 ⁺³³ ₋₃₃	1411	9.33 ^{+0.07} _{-0.07}	44.42 ^{+0.07} _{-0.07}	5.02E+37	8.10E+34
4104	58738.971514005	563.3 ^{+1.1} _{-1.1}	5.4 ^{+1.1} _{-1.1}	82 ⁺²³ ₋₂₃	1075	4.73 ^{+0.80} _{-0.80}	25.54 ^{+0.88} _{-0.88}	2.73E+37	9.42E+35
4105	58738.971939875	564.3 ^{+0.7} _{-0.7}	2.8 ^{+0.8} _{-0.8}	85 ⁺³ ₋₃	1396	8.48 ^{+0.07} _{-0.07}	24.14 ^{+0.06} _{-0.06}	2.73E+37	6.23E+34
4106	58738.972667921	564.4 ^{+1.0} _{-1.0}	5.4 ^{+0.3} _{-0.3}	283 ⁺²⁷ ₋₂₇	1356	15.89 ^{+0.74} _{-0.74}	85.81 ^{+0.23} _{-0.23}	9.19E+37	2.46E+35
4107	58738.972668259	562.1 ^{+1.1} _{-1.1}	4.8 ^{+1.5} _{-1.5}	193 ⁺⁹⁸ ₋₉₈	1180	7.43 ^{+0.06} _{-0.06}	35.68 ^{+0.09} _{-0.09}	4.03E+37	1.01E+35
4108	58738.972717032	563.1 ^{+1.3} _{-1.3}	12.8 ^{+1.9} _{-1.9}	66 ⁺²⁹ ₋₂₉	1394	4.86 ^{+0.53} _{-0.53}	62.31 ^{+1.02} _{-1.02}	6.67E+37	1.10E+36
4109	58738.972738562	564.8 ^{+0.7} _{-0.7}	5.0 ^{+0.7} _{-0.7}	144 ⁺²⁶ ₋₂₆	1244	15.23 ^{+0.12} _{-0.12}	76.40 ^{+0.09} _{-0.09}	8.63E+37	9.87E+34
4110	58738.972764646	563.1 ^{+1.3} _{-1.3}	4.5 ^{+1.7} _{-1.7}	66 ⁺²⁹ ₋₂₉	1394	5.76 ^{+0.04} _{-0.04}	26.02 ^{+0.08} _{-0.08}	2.94E+37	8.86E+34
4111	58738.972865565	564.1 ^{+1.1} _{-1.1}	6.1 ^{+1.1} _{-1.1}	110 ⁺⁸⁵ ₋₈₅	1344	9.71 ^{+0.07} _{-0.07}	59.04 ^{+0.08} _{-0.08}	6.67E+37	9.36E+34
4112	58738.972918297	563.8 ^{+1.2} _{-1.2}	5.9 ^{+1.0} _{-1.0}	117 ⁺⁴⁹ ₋₄₉	1331	5.15 ^{+0.73} _{-0.73}	30.28 ^{+0.74} _{-0.74}	3.24E+37	7.89E+35
4113	58738.973012825	564.9 ^{+0.5} _{-0.5}	1.9 ^{+0.6} _{-0.6}	61 ⁺²² ₋₂₂	1088	7.84 ^{+0.06} _{-0.06}	14.66 ^{+0.04} _{-0.04}	1.66E+37	4.39E+34
4114	58738.973132409	564.3 ^{+1.2} _{-1.2}	4.4 ^{+1.1} _{-1.1}	174 ⁺⁶ ₋₆	1279	7.53 ^{+0.06} _{-0.06}	32.77 ^{+0.07} _{-0.07}	3.70E+37	7.36E+34
4115	58738.973593352	563.7 ^{+1.1} _{-1.1}	4.4 ^{+1.2} _{-1.2}	117 ⁺⁵³ ₋₅₃	1184	8.27 ^{+0.06} _{-0.06}	36.70 ^{+0.08} _{-0.08}	4.15E+37	8.71E+34
4116	58738.973700055	561.6 ^{+0.7} _{-0.7}	3.7 ^{+0.5} _{-0.5}	100 ⁺⁶ ₋₆	1090	2.73 ^{+0.02} _{-0.02}	10.14 ^{+0.09} _{-0.09}	1.09E+37	9.55E+34
4117	58738.973814623	565.0 ^{+0.1} _{-0.1}	3.4 ^{+0.4} _{-0.4}	161 ⁺¹⁴ ₋₁₄	1238	17.44 ^{+0.96} _{-0.96}	59.12 ^{+0.34} _{-0.34}	6.33E+37	3.60E+35
4118	58738.973814668	565.0 ^{+0.1} _{-0.1}	2.8 ^{+0.8} _{-0.8}	185 ⁺⁸ ₋₈	1137	6.17 ^{+1.09} _{-1.09}	17.28 ^{+0.90} _{-0.90}	1.85E+37	9.68E+35
4119	58738.973814854	564.2 ^{+0.5} _{-0.5}	2.2 ^{+0.2} _{-0.2}	203 ⁺¹³ ₋₁₃	1139	12.79 ^{+1.15} _{-1.15}	28.65 ^{+0.28} _{-0.28}	3.07E+37	2.95E+35
4120	58738.973815216	560.6 ^{+0.1} _{-0.1}	8.6 ^{+1.7} _{-1.7}	172 ⁺⁴¹ ₋₄₁	1182	6.72 ^{+0.05} _{-0.05}	57.71 ^{+0.09} _{-0.09}	6.52E+37	1.01E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4121	58738.973961249	565.2 ^{+0.8} _{-0.8}	4.1 ^{+0.5} _{-0.5}	133 ⁺¹⁵ ₋₁₅	1169	7.92 ^{+0.89} _{-0.89}	32.16 ^{+0.48} _{-0.48}	3.44E+37	5.14E+35
4122	58738.974733559	563.6 ^{+1.1} _{-1.1}	1.4 ^{+0.5} _{-0.5}	111 ⁺⁴⁶ ₋₄₆	1263	4.43 ^{+0.03} _{-0.03}	5.99 ^{+0.02} _{-0.02}	6.77E+36	2.06E+34
4123	58738.975054776	564.3 ^{+1.0} _{-1.0}	4.9 ^{+0.6} _{-0.6}	100 ⁺⁵⁴ ₋₅₄	1424	10.96 ^{+0.09} _{-0.09}	54.20 ^{+0.06} _{-0.06}	6.12E+37	6.26E+34
4124	58738.975855994	563.5 ^{+1.2} _{-1.2}	1.9 ^{+0.3} _{-0.3}	129 ⁺⁴¹ ₋₄₁	1401	10.44 ^{+1.25} _{-1.25}	19.94 ^{+0.34} _{-0.34}	2.13E+37	3.61E+35
4125	58738.976178449	563.3 ^{+1.3} _{-1.3}	4.8 ^{+1.2} _{-1.2}	183 ⁺⁴⁵ ₋₄₅	1351	9.24 ^{+0.07} _{-0.07}	44.71 ^{+0.09} _{-0.09}	5.05E+37	9.68E+34
4126	58738.976293711	562.2 ^{+1.0} _{-1.0}	2.8 ^{+0.4} _{-0.4}	53 ⁺⁵ ₋₅	1431	7.90 ^{+0.99} _{-0.99}	22.44 ^{+0.42} _{-0.42}	2.40E+37	4.45E+35
4127	58738.976478809	564.0 ^{+1.2} _{-1.2}	4.9 ^{+2.1} _{-2.1}	160 ⁺⁷ ₋₇	1299	5.21 ^{+0.04} _{-0.04}	25.53 ^{+0.09} _{-0.09}	2.88E+37	9.67E+34
4128	58738.977033103	564.0 ^{+0.5} _{-0.5}	5.5 ^{+0.6} _{-0.6}	137 ⁺¹¹ ₋₁₁	1181	9.30 ^{+0.81} _{-0.81}	51.24 ^{+0.47} _{-0.47}	5.49E+37	5.03E+35
4129	58738.977416155	564.2 ^{+0.8} _{-0.8}	0.5 ^{+0.2} _{-0.2}	66 ⁺³³ ₋₃₃	1405	9.50 ^{+1.20} _{-1.20}	4.75 ^{+0.25} _{-0.25}	5.08E+36	2.70E+35
4130	58738.978069647	564.1 ^{+1.1} _{-1.1}	5.1 ^{+1.2} _{-1.2}	118 ⁺³⁸ ₋₃₈	1378	9.35 ^{+0.07} _{-0.07}	47.77 ^{+0.09} _{-0.09}	5.40E+37	1.05E+35
4131	58738.978096365	563.1 ^{+1.3} _{-1.3}	7.6 ^{+1.9} _{-1.9}	83 ⁺³⁵ ₋₃₅	1364	8.15 ^{+0.07} _{-0.07}	62.00 ^{+0.13} _{-0.13}	7.01E+37	1.45E+35
4132	58738.978137919	563.2 ^{+1.3} _{-1.3}	5.1 ^{+0.4} _{-0.4}	162 ⁺³⁴ ₋₃₄	1302	10.28 ^{+0.74} _{-0.74}	52.33 ^{+0.33} _{-0.33}	5.60E+37	3.49E+35
4133	58738.978278000	563.2 ^{+1.2} _{-1.2}	4.2 ^{+1.0} _{-1.0}	83 ⁺³ ₋₃	1087	5.29 ^{+0.04} _{-0.04}	22.30 ^{+0.04} _{-0.04}	2.52E+37	4.93E+34
4134	58738.978306890	566.3 ^{+0.9} _{-0.9}	5.3 ^{+0.4} _{-0.4}	272 ⁺²⁰ ₋₂₀	1270	14.06 ^{+0.81} _{-0.81}	74.80 ^{+0.30} _{-0.30}	8.01E+37	3.21E+35
4135	58738.978625515	562.8 ^{+1.3} _{-1.3}	7.5 ^{+1.4} _{-1.4}	196 ⁺¹⁴ ₋₁₄	1119	4.78 ^{+0.72} _{-0.72}	35.66 ^{+1.01} _{-1.01}	3.82E+37	1.08E+36
4136	58738.979206944	564.5 ^{+0.8} _{-0.8}	4.8 ^{+1.6} _{-1.6}	116 ⁺⁸ ₋₈	1398	5.53 ^{+0.04} _{-0.04}	26.31 ^{+0.07} _{-0.07}	2.97E+37	8.13E+34
4137	58738.980605319	563.1 ^{+1.4} _{-1.4}	6.5 ^{+1.6} _{-1.6}	124 ⁺¹²⁰ ₋₁₂₀	1145	4.48 ^{+0.04} _{-0.04}	29.01 ^{+0.06} _{-0.06}	3.28E+37	6.54E+34
4138	58738.980605772	563.1 ^{+1.1} _{-1.1}	2.9 ^{+1.0} _{-1.0}	49 ⁺⁵ ₋₅	1437	3.53 ^{+0.03} _{-0.03}	10.16 ^{+0.03} _{-0.03}	1.15E+37	3.24E+34
4139	58738.980960376	565.4 ^{+0.9} _{-0.9}	3.6 ^{+0.3} _{-0.3}	146 ⁺¹⁶ ₋₁₆	1411	14.96 ^{+0.93} _{-0.93}	54.30 ^{+0.25} _{-0.25}	5.81E+37	2.69E+35
4140	58738.981200476	563.6 ^{+1.1} _{-1.1}	6.1 ^{+1.8} _{-1.8}	81 ⁺⁵⁵ ₋₅₅	1388	5.80 ^{+0.05} _{-0.05}	35.18 ^{+0.08} _{-0.08}	3.98E+37	9.55E+34
4141	58738.982273450	563.5 ^{+1.2} _{-1.2}	5.5 ^{+1.6} _{-1.6}	88 ⁺²⁹ ₋₂₉	1168	6.41 ^{+0.05} _{-0.05}	35.25 ^{+0.09} _{-0.09}	3.98E+37	9.62E+34
4142	58738.982420646	564.7 ^{+0.7} _{-0.7}	2.0 ^{+0.3} _{-0.3}	86 ⁺⁸ ₋₈	1187	11.32 ^{+0.09} _{-0.09}	22.13 ^{+0.02} _{-0.02}	2.50E+37	2.77E+34
4143	58738.983091966	563.6 ^{+1.2} _{-1.2}	5.5 ^{+0.9} _{-0.9}	214 ⁺¹¹³ ₋₁₁₃	1302	5.37 ^{+0.75} _{-0.75}	29.75 ^{+0.70} _{-0.70}	3.18E+37	7.55E+35
4144	58738.983092835	563.5 ^{+0.3} _{-0.3}	3.2 ^{+0.5} _{-0.5}	124 ⁺³² ₋₃₂	1347	12.58 ^{+1.02} _{-1.02}	40.13 ^{+0.49} _{-0.49}	4.30E+37	5.24E+35
4145	58738.983092876	563.5 ^{+0.3} _{-0.3}	2.5 ^{+0.3} _{-0.3}	246 ⁺⁷ ₋₇	1129	16.17 ^{+1.18} _{-1.18}	40.75 ^{+0.35} _{-0.35}	4.36E+37	3.79E+35
4146	58738.984443504	563.0 ^{+1.2} _{-1.2}	6.6 ^{+1.8} _{-1.8}	327 ⁺⁸⁶ ₋₈₆	1231	6.69 ^{+0.06} _{-0.06}	44.28 ^{+0.10} _{-0.10}	5.00E+37	1.11E+35
4147	58738.985472505	563.4 ^{+0.2} _{-0.2}	2.1 ^{+0.3} _{-0.3}	246 ⁺²⁷ ₋₂₇	1193	20.59 ^{+0.18} _{-0.18}	43.92 ^{+0.05} _{-0.05}	4.96E+37	5.33E+34
4148	58738.985499148	562.7 ^{+1.3} _{-1.3}	7.1 ^{+1.0} _{-1.0}	88 ⁺²⁴ ₋₂₄	1062	5.13 ^{+0.04} _{-0.04}	36.16 ^{+0.35} _{-0.35}	3.87E+37	3.71E+35
4149	58738.986817821	564.7 ^{+1.3} _{-1.3}	7.3 ^{+0.7} _{-0.7}	96 ⁺⁴⁴ ₋₄₄	1389	8.43 ^{+0.61} _{-0.61}	61.88 ^{+0.40} _{-0.40}	6.62E+37	4.31E+35
4150	58738.987555947	564.6 ^{+0.3} _{-0.3}	2.0 ^{+0.1} _{-0.1}	141 ⁺²⁵ ₋₂₅	1327	22.91 ^{+1.20} _{-1.20}	45.13 ^{+0.14} _{-0.14}	4.83E+37	1.54E+35
4151	58738.987555963	564.6 ^{+0.3} _{-0.3}	3.4 ^{+0.6} _{-0.6}	145 ⁺²⁶ ₋₂₆	1335	12.91 ^{+2.40} _{-2.40}	44.54 ^{+1.34} _{-1.34}	4.77E+37	1.44E+36
4152	58738.987775682	564.8 ^{+1.4} _{-1.4}	8.5 ^{+1.1} _{-1.1}	64 ⁺¹⁷ ₋₁₇	1111	5.45 ^{+0.56} _{-0.56}	46.16 ^{+0.61} _{-0.61}	4.94E+37	6.53E+35
4153	58738.987926580	565.0 ^{+0.5} _{-0.5}	5.2 ^{+1.6} _{-1.6}	168 ⁺⁴⁰ ₋₄₀	1295	7.25 ^{+0.06} _{-0.06}	37.67 ^{+0.10} _{-0.10}	4.25E+37	1.16E+35
4154	58738.988170314	563.9 ^{+1.1} _{-1.1}	4.4 ^{+0.7} _{-0.7}	55 ⁺¹⁴ ₋₁₄	1404	5.75 ^{+0.73} _{-0.73}	25.53 ^{+0.50} _{-0.50}	2.73E+37	5.31E+35
4155	58738.988170603	562.6 ^{+1.0} _{-1.0}	4.5 ^{+2.3} _{-2.3}	250 ⁺⁵ ₋₅	1266	4.91 ^{+0.04} _{-0.04}	21.98 ^{+0.10} _{-0.10}	2.48E+37	1.13E+35
4156	58738.988194446	563.6 ^{+0.3} _{-0.3}	2.6 ^{+0.1} _{-0.1}	321 ⁺²⁷ ₋₂₇	1330	22.56 ^{+0.99} _{-0.99}	59.78 ^{+0.14} _{-0.14}	6.40E+37	1.48E+35
4157	58738.988194469	563.6 ^{+0.3} _{-0.3}	1.1 ^{+0.5} _{-0.5}	346 ⁺¹⁴ ₋₁₄	1318	5.51 ^{+0.91} _{-0.91}	6.06 ^{+0.46} _{-0.46}	6.49E+36	4.87E+35
4158	58738.988210720	565.6 ^{+0.2} _{-0.2}	4.4 ^{+0.3} _{-0.3}	200 ⁺²⁵ ₋₂₅	1275	15.52 ^{+0.81} _{-0.81}	67.82 ^{+0.22} _{-0.22}	7.26E+37	2.34E+35
4159	58738.988719108	563.6 ^{+1.2} _{-1.2}	2.5 ^{+0.5} _{-0.5}	276 ⁺⁶⁵ ₋₆₅	1339	7.30 ^{+1.16} _{-1.16}	17.96 ^{+0.53} _{-0.53}	1.92E+37	5.71E+35
4160	58738.989004720	563.9 ^{+1.1} _{-1.1}	3.9 ^{+0.9} _{-0.9}	112 ⁺⁴³ ₋₄₃	1360	6.24 ^{+0.06} _{-0.06}	24.54 ^{+0.05} _{-0.05}	2.77E+37	5.61E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4161	58738.989384665	563.7 ^{+1.1} _{-1.1}	7.0 ^{+0.9} _{-0.9}	150 ⁺²⁶ ₋₂₆	1148	6.87 ^{+0.69} _{-0.69}	48.09 ^{+0.60} _{-0.60}	5.15E+37	6.43E+35
4162	58738.989816282	563.6 ^{+1.2} _{-1.2}	6.0 ^{+0.9} _{-0.9}	61 ⁺³⁷ ₋₃₇	1418	7.09 ^{+0.89} _{-0.89}	42.89 ^{+0.82} _{-0.82}	4.59E+37	8.77E+35
4163	58738.990584544	564.2 ^{+1.1} _{-1.1}	2.2 ^{+0.7} _{-0.7}	114 ⁺³⁷ ₋₃₇	1409	6.32 ^{+0.06} _{-0.06}	13.65 ^{+0.04} _{-0.04}	1.54E+37	4.24E+34
4164	58738.990744208	563.4 ^{+1.3} _{-1.3}	14.4 ^{+2.5} _{-2.5}	145 ⁺¹⁵ ₋₁₅	1398	4.83 ^{+0.58} _{-0.58}	69.70 ^{+1.44} _{-1.44}	7.46E+37	1.55E+36
4165	58738.991031164	565.1 ^{+1.2} _{-1.2}	8.1 ^{+0.6} _{-0.6}	189 ⁺²⁰ ₋₂₀	1387	10.24 ^{+0.62} _{-0.62}	82.94 ^{+0.38} _{-0.38}	8.88E+37	4.11E+35
4166	58738.991999985	562.9 ^{+1.2} _{-1.2}	3.4 ^{+1.0} _{-1.0}	68 ⁺¹⁴ ₋₁₄	1395	4.80 ^{+0.04} _{-0.04}	16.38 ^{+0.04} _{-0.04}	1.85E+37	4.76E+34
4167	58738.992273866	564.2 ^{+1.0} _{-1.0}	4.0 ^{+0.9} _{-0.9}	123 ⁺³ ₋₃	1311	8.17 ^{+0.07} _{-0.07}	32.35 ^{+0.07} _{-0.07}	3.66E+37	7.58E+34
4168	58738.992723513	563.9 ^{+1.2} _{-1.2}	1.6 ^{+0.2} _{-0.2}	90 ⁺²⁴ ₋₂₄	1425	15.50 ^{+1.45} _{-1.45}	24.64 ^{+0.25} _{-0.25}	2.64E+37	2.64E+35
4169	58738.992723562	563.9 ^{+1.2} _{-1.2}	1.1 ^{+0.1} _{-0.1}	239 ⁺⁹ ₋₉	1295	16.60 ^{+0.32} _{-0.32}	18.59 ^{+0.04} _{-0.04}	1.99E+37	4.11E+34
4170	58738.993492670	562.3 ^{+1.1} _{-1.1}	2.8 ^{+1.5} _{-1.5}	114 ⁺⁶ ₋₆	1092	4.12 ^{+0.04} _{-0.04}	11.34 ^{+0.05} _{-0.05}	1.28E+37	6.10E+34
4171	58738.993627047	562.5 ^{+1.2} _{-1.2}	2.1 ^{+0.5} _{-0.5}	53 ⁺¹⁹ ₋₁₉	1418	8.35 ^{+0.08} _{-0.08}	17.60 ^{+0.04} _{-0.04}	1.99E+37	4.48E+34
4172	58738.993746215	562.8 ^{+1.2} _{-1.2}	9.1 ^{+1.2} _{-1.2}	107 ⁺⁶¹ ₋₆₁	1333	6.19 ^{+0.63} _{-0.63}	56.27 ^{+0.74} _{-0.74}	6.02E+37	7.96E+35
4173	58738.994613219	562.8 ^{+1.3} _{-1.3}	3.7 ^{+0.5} _{-0.5}	70 ⁺⁴ ₋₄	1412	4.57 ^{+0.04} _{-0.04}	16.87 ^{+0.18} _{-0.18}	1.81E+37	1.90E+35
4174	58738.996009072	562.5 ^{+0.7} _{-0.7}	12.3 ^{+3.0} _{-3.0}	83 ⁺¹⁸ ₋₁₈	1326	7.08 ^{+0.07} _{-0.07}	87.33 ^{+0.20} _{-0.20}	9.87E+37	2.27E+35
4175	58738.996009241	562.2 ^{+0.8} _{-0.8}	7.9 ^{+2.8} _{-2.8}	96 ⁺⁵² ₋₅₂	1146	4.87 ^{+0.04} _{-0.04}	38.30 ^{+0.13} _{-0.13}	4.33E+37	1.45E+35
4176	58738.996457764	563.5 ^{+0.9} _{-0.9}	7.8 ^{+1.1} _{-1.1}	66 ⁺¹² ₋₁₂	1105	3.85 ^{+0.04} _{-0.04}	30.22 ^{+0.32} _{-0.32}	3.23E+37	3.46E+35
4177	58738.996880444	563.5 ^{+1.2} _{-1.2}	10.7 ^{+3.9} _{-3.9}	147 ⁺⁴⁴ ₋₄₄	1358	6.59 ^{+0.06} _{-0.06}	70.26 ^{+0.24} _{-0.24}	7.94E+37	2.76E+35
4178	58738.997415516	564.8 ^{+0.6} _{-0.6}	3.2 ^{+0.3} _{-0.3}	233 ⁺¹⁹ ₋₁₉	1232	13.85 ^{+0.93} _{-0.93}	44.18 ^{+0.24} _{-0.24}	4.73E+37	2.59E+35
4179	58738.997415593	565.1 ^{+0.9} _{-0.9}	4.5 ^{+0.5} _{-0.5}	263 ⁺⁶³ ₋₆₃	1269	9.53 ^{+0.79} _{-0.79}	43.27 ^{+0.36} _{-0.36}	4.63E+37	3.89E+35
4180	58738.997571761	562.6 ^{+1.3} _{-1.3}	6.4 ^{+1.2} _{-1.2}	142 ⁺²⁹ ₋₂₉	1290	10.22 ^{+0.10} _{-0.10}	65.50 ^{+0.12} _{-0.12}	7.40E+37	1.31E+35
4181	58738.998000603	564.0 ^{+1.0} _{-1.0}	3.7 ^{+0.9} _{-0.9}	74 ⁺¹⁷ ₋₁₇	1399	6.58 ^{+0.06} _{-0.06}	24.63 ^{+0.05} _{-0.05}	2.78E+37	6.05E+34
4182	58738.998162139	562.7 ^{+1.4} _{-1.4}	5.1 ^{+0.9} _{-0.9}	67 ⁺⁴⁵ ₋₄₅	1169	8.30 ^{+0.08} _{-0.08}	42.62 ^{+0.07} _{-0.07}	4.82E+37	8.13E+34
4183	58738.999078887	564.1 ^{+0.8} _{-0.8}	2.7 ^{+0.9} _{-0.9}	80 ⁺⁴⁰ ₋₄₀	1389	4.88 ^{+0.04} _{-0.04}	13.12 ^{+0.04} _{-0.04}	1.48E+37	4.43E+34
4184	58741.878046733	561.7 ^{+0.8} _{-0.8}	2.8 ^{+0.5} _{-0.5}	129 ⁺²⁷ ₋₂₇	1137	10.89 ^{+1.54} _{-1.54}	30.71 ^{+0.72} _{-0.72}	3.29E+37	7.75E+35
4185	58741.893736246	563.6 ^{+1.1} _{-1.1}	5.1 ^{+1.2} _{-1.2}	57 ⁺³¹ ₋₃₁	1148	5.98 ^{+0.06} _{-0.06}	30.39 ^{+0.08} _{-0.08}	3.43E+37	8.51E+34
4186	58741.895671454	563.6 ^{+0.0} _{-0.0}	2.1 ^{+0.0} _{-0.0}	340 ⁺¹⁶ ₋₁₆	1329	184.62 ^{+1.71} _{-1.71}	391.39 ^{+0.03} _{-0.03}	4.19E+38	3.66E+34
4187	58741.906055028	562.9 ^{+1.1} _{-1.1}	5.5 ^{+0.7} _{-0.7}	113 ⁺³ ₋₃	1362	8.77 ^{+0.89} _{-0.89}	48.41 ^{+0.61} _{-0.61}	5.18E+37	6.48E+35
4188	58741.910001351	564.2 ^{+0.1} _{-0.1}	0.8 ^{+0.0} _{-0.0}	382 ⁺¹⁰ ₋₁₀	1308	56.91 ^{+2.90} _{-2.90}	48.37 ^{+0.14} _{-0.14}	5.18E+37	1.55E+35
4189	58741.910001367	564.2 ^{+0.1} _{-0.1}	3.8 ^{+0.1} _{-0.1}	462 ⁺³⁸ ₋₃₈	1267	74.83 ^{+1.43} _{-1.43}	281.36 ^{+0.11} _{-0.11}	3.01E+38	1.22E+35
4190	58742.883427466	563.3 ^{+1.0} _{-1.0}	3.0 ^{+0.6} _{-0.6}	99 ⁺¹¹ ₋₁₁	1385	7.82 ^{+0.09} _{-0.09}	23.66 ^{+0.05} _{-0.05}	2.67E+37	5.76E+34
4191	58742.887578160	563.6 ^{+1.1} _{-1.1}	3.3 ^{+0.8} _{-0.8}	235 ⁺¹⁴⁵ ₋₁₄₅	1265	4.57 ^{+0.05} _{-0.05}	15.25 ^{+0.04} _{-0.04}	1.72E+37	4.79E+34
4192	58742.891552226	564.0 ^{+1.0} _{-1.0}	8.4 ^{+1.3} _{-1.3}	103 ⁺²⁶ ₋₂₆	1381	6.24 ^{+0.77} _{-0.77}	52.35 ^{+1.00} _{-1.00}	5.60E+37	1.07E+36
4193	58742.900043521	563.2 ^{+1.2} _{-1.2}	3.3 ^{+0.7} _{-0.7}	142 ⁺⁷ ₋₇	1369	6.11 ^{+0.06} _{-0.06}	20.42 ^{+0.05} _{-0.05}	2.31E+37	5.10E+34
4194	58742.902600033	563.1 ^{+1.2} _{-1.2}	4.2 ^{+0.6} _{-0.6}	122 ⁺¹⁸ ₋₁₈	1080	4.40 ^{+0.04} _{-0.04}	18.51 ^{+0.21} _{-0.21}	1.98E+37	2.22E+35
4195	58742.911666446	561.2 ^{+0.8} _{-0.8}	6.5 ^{+1.8} _{-1.8}	94 ⁺¹⁷ ₋₁₇	1258	7.35 ^{+0.07} _{-0.07}	48.09 ^{+0.12} _{-0.12}	5.43E+37	1.35E+35
4196	58743.917682239	563.0 ^{+0.4} _{-0.4}	6.7 ^{+0.3} _{-0.3}	393 ⁺¹⁴ ₋₁₄	1303	42.93 ^{+0.36} _{-0.36}	288.27 ^{+0.09} _{-0.09}	3.26E+38	1.05E+35
4197	58743.919174552	563.3 ^{+1.5} _{-1.5}	7.5 ^{+1.1} _{-1.1}	141 ⁺²⁵ ₋₂₅	1336	5.21 ^{+0.04} _{-0.04}	39.15 ^{+0.37} _{-0.37}	4.19E+37	3.96E+35
4198	58743.923886706	563.4 ^{+1.1} _{-1.1}	6.5 ^{+2.2} _{-2.2}	253 ⁺⁵⁷ ₋₅₇	1254	3.79 ^{+0.03} _{-0.03}	24.75 ^{+0.07} _{-0.07}	2.80E+37	7.44E+34
4199	58743.924224371	564.1 ^{+0.5} _{-0.5}	3.9 ^{+0.3} _{-0.3}	149 ⁺¹⁴ ₋₁₄	1412	16.34 ^{+0.92} _{-0.92}	64.38 ^{+0.24} _{-0.24}	6.89E+37	2.56E+35
4200	58743.924944613	563.0 ^{+1.4} _{-1.4}	6.2 ^{+0.6} _{-0.6}	264 ⁺³¹ ₋₃₁	1366	9.54 ^{+0.76} _{-0.76}	59.15 ^{+0.46} _{-0.46}	6.33E+37	4.88E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4201	58743.935276223	562.7 ^{+1.3} _{-1.3}	3.4 ^{+0.8} _{-0.8}	100 ⁺¹⁶ ₋₁₆	1282	6.36 ^{+0.05} _{-0.05}	21.92 ^{+0.04} _{-0.04}	2.48E+37	4.05E+34
4202	58743.938522280	563.3 ^{+1.2} _{-1.2}	32.6 ^{+6.8} _{-6.8}	67 ⁺¹³ ₋₁₃	1431	7.60 ^{+0.06} _{-0.06}	247.77 ^{+0.38} _{-0.38}	2.80E+38	4.29E+35
4203	58743.939733583	564.0 ^{+0.2} _{-0.2}	3.1 ^{+0.2} _{-0.2}	408 ⁺⁵⁴ ₋₅₄	1278	19.19 ^{+1.01} _{-1.01}	60.26 ^{+0.20} _{-0.20}	6.45E+37	2.16E+35
4204	58743.941631690	562.4 ^{+1.2} _{-1.2}	5.1 ^{+1.8} _{-1.8}	44 ⁺¹⁰ ₋₁₀	1354	4.24 ^{+0.03} _{-0.03}	21.46 ^{+0.05} _{-0.05}	2.42E+37	6.14E+34
4205	58743.941768764	563.6 ^{+1.3} _{-1.3}	4.1 ^{+0.4} _{-0.4}	238 ⁺¹³ ₋₁₃	1361	16.28 ^{+1.08} _{-1.08}	66.75 ^{+0.49} _{-0.49}	7.15E+37	5.20E+35
4206	58743.949814295	563.3 ^{+1.1} _{-1.1}	5.9 ^{+3.1} _{-3.1}	237 ⁺⁹ ₋₉	1254	3.94 ^{+0.03} _{-0.03}	23.06 ^{+0.09} _{-0.09}	2.61E+37	1.01E+35
4207	58743.949814702	563.2 ^{+1.3} _{-1.3}	8.5 ^{+3.4} _{-3.4}	90 ⁺⁴⁸ ₋₄₈	1307	5.40 ^{+0.04} _{-0.04}	45.87 ^{+0.14} _{-0.14}	5.18E+37	1.53E+35
4208	58744.869486677	564.4 ^{+1.1} _{-1.1}	3.3 ^{+0.5} _{-0.5}	77 ⁺⁴ ₋₄	1359	8.31 ^{+0.10} _{-0.10}	27.27 ^{+0.05} _{-0.05}	3.08E+37	5.98E+34
4209	58744.873531379	564.2 ^{+1.2} _{-1.2}	6.3 ^{+1.4} _{-1.4}	117 ⁺⁷⁴ ₋₇₄	1114	6.71 ^{+0.08} _{-0.08}	42.14 ^{+0.11} _{-0.11}	4.76E+37	1.26E+35
4210	58744.874065563	563.1 ^{+1.1} _{-1.1}	4.8 ^{+0.7} _{-0.7}	169 ⁺¹⁹ ₋₁₉	1359	13.29 ^{+0.16} _{-0.16}	63.33 ^{+0.85} _{-0.85}	6.78E+37	9.11E+35
4211	58744.874686934	563.1 ^{+1.4} _{-1.4}	4.3 ^{+0.9} _{-0.9}	146 ⁺⁷⁸ ₋₇₈	1164	7.98 ^{+0.09} _{-0.09}	34.67 ^{+0.08} _{-0.08}	3.92E+37	9.32E+34
4212	58744.878459947	563.3 ^{+1.3} _{-1.3}	2.6 ^{+0.5} _{-0.5}	117 ⁺⁴⁹ ₋₄₉	1315	7.02 ^{+0.08} _{-0.08}	18.55 ^{+0.04} _{-0.04}	2.10E+37	4.40E+34
4213	58744.879762654	562.0 ^{+0.3} _{-0.3}	3.1 ^{+1.2} _{-1.2}	73 ⁺²¹ ₋₂₁	1168	5.81 ^{+0.07} _{-0.07}	18.07 ^{+0.08} _{-0.08}	2.04E+37	8.62E+34
4214	58744.883298180	563.4 ^{+0.7} _{-0.7}	3.9 ^{+0.6} _{-0.6}	68 ⁺²⁴ ₋₂₄	1429	6.30 ^{+0.07} _{-0.07}	24.73 ^{+0.31} _{-0.31}	2.65E+37	3.31E+35
4215	58744.886588622	562.4 ^{+1.3} _{-1.3}	6.6 ^{+2.4} _{-2.4}	33 ⁺⁵ ₋₅	1352	5.98 ^{+0.06} _{-0.06}	39.51 ^{+0.15} _{-0.15}	4.46E+37	1.72E+35
4216	58744.894854707	561.8 ^{+1.1} _{-1.1}	8.2 ^{+1.9} _{-1.9}	68 ⁺⁴¹ ₋₄₁	1110	7.26 ^{+0.07} _{-0.07}	59.50 ^{+0.14} _{-0.14}	6.72E+37	1.57E+35
4217	58744.895163472	564.2 ^{+0.2} _{-0.2}	2.8 ^{+0.4} _{-0.4}	296 ⁺¹² ₋₁₂	1337	20.80 ^{+0.21} _{-0.21}	59.09 ^{+0.67} _{-0.67}	6.33E+37	7.20E+35
4218	58744.897349801	564.5 ^{+0.6} _{-0.6}	4.0 ^{+0.5} _{-0.5}	74 ⁺¹⁸ ₋₁₈	1158	11.17 ^{+0.11} _{-0.11}	45.20 ^{+0.06} _{-0.06}	5.11E+37	6.79E+34
4219	58744.898209735	562.6 ^{+1.2} _{-1.2}	2.4 ^{+1.7} _{-1.7}	121 ⁺⁸ ₋₈	1353	2.27 ^{+0.02} _{-0.02}	5.33 ^{+0.04} _{-0.04}	6.03E+36	4.31E+34
4220	58744.901415282	563.1 ^{+1.2} _{-1.2}	6.6 ^{+0.9} _{-0.9}	137 ⁺³⁶ ₋₃₆	1209	9.07 ^{+0.09} _{-0.09}	59.66 ^{+0.65} _{-0.65}	6.39E+37	6.93E+35
4221	58745.925104032	563.8 ^{+1.0} _{-1.0}	4.8 ^{+0.4} _{-0.4}	202 ⁺²³ ₋₂₃	1164	11.71 ^{+0.75} _{-0.75}	56.68 ^{+0.28} _{-0.28}	6.07E+37	2.97E+35
4222	58745.925104063	563.8 ^{+1.0} _{-1.0}	6.1 ^{+1.2} _{-1.2}	189 ⁺¹⁷ ₋₁₇	1148	5.31 ^{+0.90} _{-0.90}	32.39 ^{+1.08} _{-1.08}	3.47E+37	1.16E+36
4223	58745.925617067	562.6 ^{+1.4} _{-1.4}	10.4 ^{+4.5} _{-4.5}	130 ⁺²⁷ ₋₂₇	1164	4.24 ^{+0.03} _{-0.03}	43.86 ^{+0.14} _{-0.14}	4.96E+37	1.62E+35
4224	58745.926049024	563.3 ^{+1.3} _{-1.3}	3.2 ^{+1.2} _{-1.2}	290 ⁺²⁷ ₋₂₇	1169	4.98 ^{+1.56} _{-1.56}	16.19 ^{+1.81} _{-1.81}	1.73E+37	1.94E+36
4225	58745.926049087	563.3 ^{+1.3} _{-1.3}	11.2 ^{+1.6} _{-1.6}	254 ⁺²⁸ ₋₂₈	1150	8.38 ^{+0.70} _{-0.70}	93.60 ^{+1.11} _{-1.11}	1.00E+38	1.19E+36
4226	58745.926216112	563.8 ^{+1.2} _{-1.2}	5.7 ^{+1.2} _{-1.2}	61 ⁺¹⁵ ₋₁₅	1346	8.00 ^{+0.06} _{-0.06}	45.36 ^{+0.08} _{-0.08}	5.13E+37	8.57E+34
4227	58745.926855838	565.0 ^{+0.3} _{-0.3}	4.2 ^{+0.3} _{-0.3}	104 ⁺²¹ ₋₂₁	1434	15.95 ^{+0.88} _{-0.88}	66.99 ^{+0.25} _{-0.25}	7.17E+37	2.64E+35
4228	58745.926855856	565.0 ^{+0.3} _{-0.3}	5.6 ^{+1.3} _{-1.3}	139 ⁺¹⁸ ₋₁₈	1423	5.01 ^{+0.68} _{-0.68}	27.86 ^{+0.89} _{-0.89}	2.98E+37	9.54E+35
4229	58745.927514223	563.0 ^{+1.3} _{-1.3}	3.8 ^{+1.5} _{-1.5}	77 ⁺³ ₋₃	1071	5.02 ^{+0.04} _{-0.04}	18.81 ^{+0.06} _{-0.06}	2.12E+37	6.36E+34
4230	58745.929666109	564.2 ^{+1.1} _{-1.1}	5.0 ^{+0.6} _{-0.6}	148 ⁺³⁴ ₋₃₄	1232	8.19 ^{+0.83} _{-0.83}	41.20 ^{+0.51} _{-0.51}	4.41E+37	5.42E+35
4231	58745.929798916	565.2 ^{+0.8} _{-0.8}	4.2 ^{+0.6} _{-0.6}	114 ⁺¹⁸ ₋₁₈	1238	8.05 ^{+0.92} _{-0.92}	33.97 ^{+0.53} _{-0.53}	3.64E+37	5.71E+35
4232	58745.929906221	564.4 ^{+0.8} _{-0.8}	4.5 ^{+0.6} _{-0.6}	63 ⁺⁷ ₋₇	1131	6.67 ^{+0.05} _{-0.05}	29.77 ^{+0.26} _{-0.26}	3.19E+37	2.73E+35
4233	58745.930362535	562.6 ^{+1.3} _{-1.3}	8.3 ^{+3.6} _{-3.6}	67 ⁺³ ₋₃	1385	5.03 ^{+0.04} _{-0.04}	41.76 ^{+0.14} _{-0.14}	4.72E+37	1.56E+35
4234	58745.930363085	563.9 ^{+1.1} _{-1.1}	4.4 ^{+1.6} _{-1.6}	122 ⁺⁵³ ₋₅₃	1227	5.45 ^{+0.04} _{-0.04}	23.91 ^{+0.06} _{-0.06}	2.70E+37	7.20E+34
4235	58745.931893066	562.9 ^{+1.2} _{-1.2}	3.7 ^{+1.2} _{-1.2}	365 ⁺¹⁴⁴ ₋₁₄₄	1229	4.94 ^{+0.04} _{-0.04}	18.24 ^{+0.04} _{-0.04}	2.06E+37	4.93E+34
4236	58745.932189441	564.5 ^{+0.4} _{-0.4}	6.4 ^{+0.8} _{-0.8}	116 ⁺³⁰ ₋₃₀	1284	6.88 ^{+0.67} _{-0.67}	44.03 ^{+0.51} _{-0.51}	4.71E+37	5.45E+35
4237	58745.932913891	563.1 ^{+1.2} _{-1.2}	15.8 ^{+5.8} _{-5.8}	57 ⁺²⁶ ₋₂₆	1419	4.41 ^{+0.03} _{-0.03}	69.78 ^{+0.19} _{-0.19}	7.88E+37	2.09E+35
4238	58745.933463777	562.8 ^{+1.4} _{-1.4}	3.5 ^{+0.5} _{-0.5}	118 ⁺³⁹ ₋₃₉	1407	7.43 ^{+0.96} _{-0.96}	26.15 ^{+0.52} _{-0.52}	2.80E+37	5.55E+35
4239	58745.933914732	563.5 ^{+1.3} _{-1.3}	2.9 ^{+0.7} _{-0.7}	98 ⁺³⁴ ₋₃₄	1115	5.92 ^{+0.04} _{-0.04}	17.07 ^{+0.03} _{-0.03}	1.93E+37	3.48E+34
4240	58745.933939847	563.2 ^{+1.3} _{-1.3}	7.5 ^{+1.1} _{-1.1}	61 ⁺²¹ ₋₂₁	1364	4.15 ^{+0.03} _{-0.03}	31.08 ^{+0.26} _{-0.26}	3.33E+37	2.75E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4241	58745.936533266	565.2 ^{+0.4} _{-0.4}	3.7 ^{+0.4} _{-0.4}	115 ⁺³⁹ ₋₃₉	1370	9.65 ^{+0.90} _{-0.90}	35.90 ^{+0.37} _{-0.37}	3.84E+37	3.95E+35
4242	58745.938162815	564.7 ^{+0.6} _{-0.6}	6.4 ^{+1.0} _{-1.0}	64 ⁺¹⁷ ₋₁₇	1116	5.77 ^{+0.74} _{-0.74}	36.99 ^{+0.74} _{-0.74}	3.96E+37	7.92E+35
4243	58745.939343805	563.7 ^{+1.2} _{-1.2}	3.2 ^{+0.5} _{-0.5}	80 ⁺²⁵ ₋₂₅	1424	7.48 ^{+0.97} _{-0.97}	24.31 ^{+0.49} _{-0.49}	2.60E+37	5.19E+35
4244	58745.940637081	563.4 ^{+1.3} _{-1.3}	2.1 ^{+0.9} _{-0.9}	151 ⁺¹²⁷ ₋₁₂₇	1169	4.66 ^{+0.03} _{-0.03}	9.75 ^{+0.03} _{-0.03}	1.10E+37	3.43E+34
4245	58745.940679033	565.0 ^{+0.9} _{-0.9}	5.2 ^{+0.6} _{-0.6}	193 ⁺²⁷ ₋₂₇	1390	8.95 ^{+0.83} _{-0.83}	46.63 ^{+0.48} _{-0.48}	4.99E+37	5.15E+35
4246	58745.941024959	562.9 ^{+1.2} _{-1.2}	7.2 ^{+2.7} _{-2.7}	54 ⁺⁴ ₋₄	1397	3.76 ^{+0.03} _{-0.03}	27.27 ^{+0.07} _{-0.07}	3.08E+37	8.20E+34
4247	58745.941110815	564.2 ^{+1.0} _{-1.0}	5.5 ^{+1.3} _{-1.3}	50 ⁺³² ₋₃₂	1353	7.46 ^{+0.05} _{-0.05}	40.95 ^{+0.07} _{-0.07}	4.63E+37	8.10E+34
4248	58745.942235439	562.4 ^{+0.8} _{-0.8}	5.1 ^{+1.3} _{-1.3}	92 ⁺⁵ ₋₅	1400	8.01 ^{+0.06} _{-0.06}	41.05 ^{+0.08} _{-0.08}	4.64E+37	8.84E+34
4249	58745.942672343	564.2 ^{+1.3} _{-1.3}	3.9 ^{+0.5} _{-0.5}	176 ⁺²⁶ ₋₂₆	1378	8.72 ^{+0.95} _{-0.95}	34.01 ^{+0.47} _{-0.47}	3.64E+37	5.08E+35
4250	58745.942673180	565.2 ^{+0.8} _{-0.8}	6.1 ^{+0.5} _{-0.5}	186 ⁺²³ ₋₂₃	1241	11.27 ^{+0.77} _{-0.77}	68.30 ^{+0.38} _{-0.38}	7.31E+37	4.12E+35
4251	58745.942894140	563.6 ^{+1.0} _{-1.0}	10.0 ^{+1.5} _{-1.5}	90 ⁺⁶⁴ ₋₆₄	1332	5.20 ^{+0.60} _{-0.60}	51.95 ^{+0.90} _{-0.90}	5.56E+37	9.63E+35
4252	58745.943698368	564.6 ^{+0.9} _{-0.9}	10.6 ^{+3.1} _{-3.1}	87 ⁺³³ ₋₃₃	1292	4.37 ^{+0.03} _{-0.03}	46.18 ^{+0.10} _{-0.10}	5.22E+37	1.12E+35
4253	58745.944284874	564.6 ^{+0.5} _{-0.5}	2.7 ^{+0.2} _{-0.2}	294 ⁺²⁵ ₋₂₅	1342	21.65 ^{+1.07} _{-1.07}	57.59 ^{+0.25} _{-0.25}	6.16E+37	2.63E+35
4254	58745.944632638	564.4 ^{+1.1} _{-1.1}	5.9 ^{+0.5} _{-0.5}	155 ⁺⁹ ₋₉	1215	9.49 ^{+0.71} _{-0.71}	55.61 ^{+0.38} _{-0.38}	5.95E+37	4.10E+35
4255	58745.944920251	561.8 ^{+0.8} _{-0.8}	5.1 ^{+0.5} _{-0.5}	165 ⁺³⁵ ₋₃₅	1405	10.63 ^{+0.85} _{-0.85}	53.79 ^{+0.41} _{-0.41}	5.76E+37	4.37E+35
4256	58745.945949649	565.8 ^{+0.5} _{-0.5}	3.2 ^{+0.2} _{-0.2}	165 ⁺¹⁴ ₋₁₄	1364	17.16 ^{+1.09} _{-1.09}	54.57 ^{+0.26} _{-0.26}	5.84E+37	2.80E+35
4257	58745.945949721	565.8 ^{+0.5} _{-0.5}	3.2 ^{+0.3} _{-0.3}	116 ⁺¹⁷ ₋₁₇	1070	16.13 ^{+1.21} _{-1.21}	51.78 ^{+0.39} _{-0.39}	5.54E+37	4.14E+35
4258	58745.946152644	564.1 ^{+1.1} _{-1.1}	2.6 ^{+0.3} _{-0.3}	76 ⁺¹⁸ ₋₁₈	1308	11.08 ^{+1.02} _{-1.02}	28.59 ^{+0.29} _{-0.29}	3.06E+37	3.06E+35
4259	58745.946537743	563.6 ^{+1.4} _{-1.4}	7.9 ^{+1.2} _{-1.2}	52 ⁺³³ ₋₃₃	1375	5.38 ^{+0.65} _{-0.65}	42.66 ^{+0.77} _{-0.77}	4.57E+37	8.28E+35
4260	58745.946619232	562.8 ^{+0.8} _{-0.8}	3.4 ^{+0.4} _{-0.4}	121 ⁺¹⁸ ₋₁₈	1349	9.75 ^{+1.07} _{-1.07}	32.66 ^{+0.47} _{-0.47}	3.50E+37	5.04E+35
4261	58745.946818911	563.1 ^{+1.4} _{-1.4}	2.4 ^{+1.0} _{-1.0}	26 ⁺⁵ ₋₅	1348	3.51 ^{+0.03} _{-0.03}	8.29 ^{+0.03} _{-0.03}	9.37E+36	2.89E+34
4262	58745.947907960	563.6 ^{+0.6} _{-0.6}	2.6 ^{+0.3} _{-0.3}	144 ⁺¹² ₋₁₂	1111	9.94 ^{+1.04} _{-1.04}	26.34 ^{+0.34} _{-0.34}	2.82E+37	3.67E+35
4263	58745.948109505	562.3 ^{+1.1} _{-1.1}	4.2 ^{+1.5} _{-1.5}	118 ⁺³⁴ ₋₃₄	1171	5.33 ^{+0.04} _{-0.04}	22.24 ^{+0.06} _{-0.06}	2.51E+37	6.87E+34
4264	58745.948608827	563.2 ^{+1.3} _{-1.3}	5.2 ^{+1.2} _{-1.2}	80 ⁺¹⁵ ₋₁₅	1208	7.36 ^{+0.06} _{-0.06}	38.29 ^{+0.06} _{-0.06}	4.32E+37	7.26E+34
4265	58745.949523638	563.8 ^{+1.0} _{-1.0}	5.0 ^{+0.7} _{-0.7}	112 ⁺²⁹ ₋₂₉	1322	7.60 ^{+0.83} _{-0.83}	38.38 ^{+0.55} _{-0.55}	4.11E+37	5.86E+35
4266	58745.950173234	563.4 ^{+1.4} _{-1.4}	10.3 ^{+1.1} _{-1.1}	207 ⁺²³ ₋₂₃	1274	7.68 ^{+0.64} _{-0.64}	78.87 ^{+0.72} _{-0.72}	8.44E+37	7.67E+35
4267	58745.953927696	563.9 ^{+0.2} _{-0.2}	4.5 ^{+0.2} _{-0.2}	381 ⁺²¹ ₋₂₁	1301	28.33 ^{+0.87} _{-0.87}	126.35 ^{+0.14} _{-0.14}	1.35E+38	1.49E+35
4268	58745.953927762	563.9 ^{+0.2} _{-0.2}	4.2 ^{+0.3} _{-0.3}	409 ⁺¹⁵ ₋₁₅	1285	28.14 ^{+0.95} _{-0.95}	118.47 ^{+0.28} _{-0.28}	1.27E+38	3.05E+35
4269	58745.957725642	563.8 ^{+0.5} _{-0.5}	3.0 ^{+0.8} _{-0.8}	107 ⁺²⁵ ₋₂₅	1169	10.27 ^{+0.08} _{-0.08}	31.09 ^{+0.06} _{-0.06}	3.51E+37	6.89E+34
4270	58745.958806228	563.1 ^{+1.1} _{-1.1}	2.4 ^{+0.5} _{-0.5}	66 ⁺²⁷ ₋₂₇	1387	9.68 ^{+0.08} _{-0.08}	23.61 ^{+0.04} _{-0.04}	2.67E+37	4.05E+34
4271	58745.958901437	562.5 ^{+1.2} _{-1.2}	3.7 ^{+1.4} _{-1.4}	69 ⁺³¹ ₋₃₁	1099	5.85 ^{+0.05} _{-0.05}	21.83 ^{+0.07} _{-0.07}	2.47E+37	7.60E+34
4272	58745.958957276	565.0 ^{+0.7} _{-0.7}	5.7 ^{+0.5} _{-0.5}	163 ⁺¹⁸ ₋₁₈	1376	10.42 ^{+0.70} _{-0.70}	59.19 ^{+0.32} _{-0.32}	6.34E+37	3.45E+35
4273	58745.959799805	562.8 ^{+1.2} _{-1.2}	9.6 ^{+1.5} _{-1.5}	124 ⁺⁶⁴ ₋₆₄	1272	5.07 ^{+0.61} _{-0.61}	48.42 ^{+0.90} _{-0.90}	5.18E+37	9.66E+35
4274	58745.960578499	563.1 ^{+0.8} _{-0.8}	2.5 ^{+1.4} _{-1.4}	127 ⁺¹⁴ ₋₁₄	1327	3.89 ^{+0.03} _{-0.03}	9.59 ^{+0.04} _{-0.04}	1.08E+37	4.91E+34
4275	58745.960598689	564.2 ^{+0.7} _{-0.7}	5.2 ^{+0.3} _{-0.3}	168 ⁺²⁹ ₋₂₉	1395	15.13 ^{+0.80} _{-0.80}	78.37 ^{+0.26} _{-0.26}	8.39E+37	2.83E+35
4276	58745.961103981	563.0 ^{+1.3} _{-1.3}	4.3 ^{+0.7} _{-0.7}	253 ⁺¹²⁷ ₋₁₂₇	1222	9.36 ^{+0.98} _{-0.98}	39.87 ^{+0.68} _{-0.68}	4.27E+37	7.24E+35
4277	58745.961104102	563.2 ^{+1.4} _{-1.4}	5.4 ^{+1.6} _{-1.6}	246 ⁺¹¹ ₋₁₁	1202	6.12 ^{+0.05} _{-0.05}	33.30 ^{+0.08} _{-0.08}	3.76E+37	9.09E+34
4278	58745.964238988	562.6 ^{+1.5} _{-1.5}	8.9 ^{+2.6} _{-2.6}	77 ⁺²⁴ ₋₂₄	1065	4.82 ^{+0.04} _{-0.04}	42.67 ^{+0.10} _{-0.10}	4.82E+37	1.15E+35
4279	58745.964239169	565.0 ^{+0.6} _{-0.6}	3.6 ^{+0.5} _{-0.5}	86 ⁺³⁹ ₋₃₉	1410	14.98 ^{+0.12} _{-0.12}	54.17 ^{+0.51} _{-0.51}	5.80E+37	5.49E+35
4280	58746.862140598	562.6 ^{+0.4} _{-0.4}	1.4 ^{+0.3} _{-0.3}	47 ⁺³⁰ ₋₃₀	1393	28.43 ^{+0.36} _{-0.36}	40.12 ^{+0.10} _{-0.10}	4.53E+37	1.18E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4281	58746.862156105	564.0 ^{+1.1} _{-1.1}	3.6 ^{+0.7} _{-0.7}	102 ⁺⁴² ₋₄₂	1292	8.39 ^{+0.10} _{-0.10}	30.47 ^{+0.07} _{-0.07}	3.44E+37	7.60E+34
4282	58746.862544916	563.1 ^{+0.2} _{-0.2}	7.6 ^{+1.1} _{-1.1}	488 ⁺⁷ ₋₇	1254	69.58 ^{+0.85} _{-0.85}	530.93 ^{+7.44} _{-7.44}	5.68E+38	7.96E+36
4283	58746.862573140	561.2 ^{+0.9} _{-0.9}	4.3 ^{+0.5} _{-0.5}	109 ⁺¹⁷ ₋₁₇	1366	11.69 ^{+0.14} _{-0.14}	50.28 ^{+0.07} _{-0.07}	5.68E+37	7.78E+34
4284	58746.862670273	562.2 ^{+1.0} _{-1.0}	5.3 ^{+0.8} _{-0.8}	55 ⁺¹⁶ ₋₁₆	1069	6.45 ^{+0.08} _{-0.08}	34.19 ^{+0.48} _{-0.48}	3.66E+37	5.13E+35
4285	58746.862670684	562.9 ^{+1.2} _{-1.2}	2.8 ^{+1.3} _{-1.3}	217 ⁺⁴ ₋₄	1269	4.55 ^{+0.06} _{-0.06}	12.61 ^{+0.07} _{-0.07}	1.43E+37	8.14E+34
4286	58746.862998655	563.1 ^{+1.2} _{-1.2}	5.1 ^{+0.5} _{-0.5}	150 ⁺²⁵ ₋₂₅	1285	12.05 ^{+1.07} _{-1.07}	61.21 ^{+0.58} _{-0.58}	6.55E+37	6.19E+35
4287	58746.865516576	563.4 ^{+1.1} _{-1.1}	5.7 ^{+1.8} _{-1.8}	78 ⁺³³ ₋₃₃	1278	5.21 ^{+0.06} _{-0.06}	29.47 ^{+0.12} _{-0.12}	3.33E+37	1.31E+35
4288	58746.866725135	564.0 ^{+0.7} _{-0.7}	5.5 ^{+0.5} _{-0.5}	277 ⁺⁵⁶ ₋₅₆	1298	16.56 ^{+1.13} _{-1.13}	91.25 ^{+0.52} _{-0.52}	9.77E+37	5.56E+35
4289	58746.867521001	565.7 ^{+0.6} _{-0.6}	2.3 ^{+0.4} _{-0.4}	124 ⁺⁵⁰ ₋₅₀	1321	13.23 ^{+1.71} _{-1.71}	30.03 ^{+0.60} _{-0.60}	3.21E+37	6.41E+35
4290	58746.867754599	563.1 ^{+1.2} _{-1.2}	3.9 ^{+0.6} _{-0.6}	54 ⁺²¹ ₋₂₁	1382	8.26 ^{+0.10} _{-0.10}	32.45 ^{+0.06} _{-0.06}	3.67E+37	7.03E+34
4291	58746.868438686	563.2 ^{+1.2} _{-1.2}	11.5 ^{+0.6} _{-0.6}	467 ⁺⁶ ₋₆	1245	22.09 ^{+0.87} _{-0.87}	253.81 ^{+0.53} _{-0.53}	2.72E+38	5.68E+35
4292	58746.868667582	564.9 ^{+0.7} _{-0.7}	6.8 ^{+0.4} _{-0.4}	340 ⁺¹⁹ ₋₁₉	1230	22.87 ^{+1.06} _{-1.06}	156.20 ^{+0.41} _{-0.41}	1.67E+38	4.43E+35
4293	58746.868815287	563.1 ^{+1.2} _{-1.2}	7.8 ^{+1.1} _{-1.1}	196 ⁺⁴⁷ ₋₄₇	1376	8.32 ^{+0.95} _{-0.95}	64.48 ^{+1.05} _{-1.05}	6.90E+37	1.13E+36
4294	58746.868963438	564.2 ^{+0.8} _{-0.8}	3.0 ^{+0.6} _{-0.6}	108 ⁺²² ₋₂₂	1370	8.87 ^{+0.10} _{-0.10}	26.30 ^{+0.06} _{-0.06}	2.97E+37	6.87E+34
4295	58746.869111616	563.4 ^{+1.3} _{-1.3}	5.0 ^{+0.7} _{-0.7}	222 ⁺³¹ ₋₃₁	1187	9.65 ^{+1.18} _{-1.18}	47.86 ^{+0.86} _{-0.86}	5.12E+37	9.22E+35
4296	58746.869338684	564.6 ^{+1.0} _{-1.0}	8.3 ^{+1.9} _{-1.9}	175 ⁺⁵¹ ₋₅₁	1280	5.22 ^{+0.06} _{-0.06}	43.51 ^{+0.12} _{-0.12}	4.92E+37	1.33E+35
4297	58746.869609315	563.4 ^{+1.3} _{-1.3}	4.4 ^{+0.7} _{-0.7}	75 ⁺⁴¹ ₋₄₁	1302	7.24 ^{+0.09} _{-0.09}	31.56 ^{+0.06} _{-0.06}	3.57E+37	6.93E+34
4298	58746.869745577	562.0 ^{+0.2} _{-0.2}	2.2 ^{+0.4} _{-0.4}	124 ⁺³⁹ ₋₃₉	1408	8.80 ^{+0.10} _{-0.10}	19.22 ^{+0.04} _{-0.04}	2.17E+37	5.00E+34
4299	58746.869747912	563.5 ^{+1.0} _{-1.0}	8.3 ^{+3.1} _{-3.1}	120 ⁺¹¹ ₋₁₁	1064	6.82 ^{+0.08} _{-0.08}	56.36 ^{+0.25} _{-0.25}	6.37E+37	2.83E+35
4300	58746.870607420	563.9 ^{+1.1} _{-1.1}	5.3 ^{+0.7} _{-0.7}	60 ⁺¹² ₋₁₂	1333	9.72 ^{+1.04} _{-1.04}	51.71 ^{+0.72} _{-0.72}	5.54E+37	7.68E+35
4301	58746.870607731	562.5 ^{+0.8} _{-0.8}	4.6 ^{+0.6} _{-0.6}	61 ⁺²⁵ ₋₂₅	1380	11.00 ^{+1.22} _{-1.22}	51.04 ^{+0.76} _{-0.76}	5.46E+37	8.10E+35
4302	58746.870876710	564.7 ^{+1.0} _{-1.0}	3.4 ^{+0.3} _{-0.3}	197 ⁺²⁸ ₋₂₈	1238	15.98 ^{+0.19} _{-0.19}	54.46 ^{+0.06} _{-0.06}	6.15E+37	7.10E+34
4303	58746.871105396	565.1 ^{+0.9} _{-0.9}	3.8 ^{+0.5} _{-0.5}	56 ⁺²⁸ ₋₂₈	1423	12.88 ^{+1.37} _{-1.37}	49.46 ^{+0.67} _{-0.67}	5.29E+37	7.19E+35
4304	58746.872075515	563.1 ^{+1.1} _{-1.1}	5.3 ^{+0.9} _{-0.9}	71 ⁺²⁹ ₋₂₉	1398	8.71 ^{+0.10} _{-0.10}	46.32 ^{+0.09} _{-0.09}	5.23E+37	1.04E+35
4305	58746.872255527	565.0 ^{+1.0} _{-1.0}	2.5 ^{+0.3} _{-0.3}	111 ⁺³³ ₋₃₃	1168	14.38 ^{+0.17} _{-0.17}	36.05 ^{+0.05} _{-0.05}	4.07E+37	5.82E+34
4306	58746.872313971	565.0 ^{+0.5} _{-0.5}	8.5 ^{+3.0} _{-3.0}	221 ⁺⁴² ₋₄₂	1144	5.33 ^{+0.06} _{-0.06}	45.34 ^{+0.19} _{-0.19}	5.12E+37	2.13E+35
4307	58746.872314170	564.4 ^{+1.1} _{-1.1}	4.2 ^{+0.5} _{-0.5}	178 ⁺⁵⁹ ₋₅₉	1346	11.69 ^{+1.21} _{-1.21}	49.21 ^{+0.63} _{-0.63}	5.27E+37	6.74E+35
4308	58746.872780449	563.8 ^{+1.0} _{-1.0}	3.3 ^{+1.0} _{-1.0}	88 ⁺⁴² ₋₄₂	1113	7.29 ^{+0.08} _{-0.08}	24.22 ^{+0.08} _{-0.08}	2.74E+37	8.91E+34
4309	58746.872978387	564.2 ^{+0.4} _{-0.4}	3.8 ^{+0.4} _{-0.4}	135 ⁺²³ ₋₂₃	1242	13.64 ^{+1.20} _{-1.20}	52.10 ^{+0.48} _{-0.48}	5.58E+37	5.14E+35
4310	58746.872978456	564.2 ^{+0.4} _{-0.4}	3.2 ^{+0.6} _{-0.6}	108 ⁺²³ ₋₂₃	1217	14.67 ^{+1.40} _{-1.40}	46.94 ^{+0.84} _{-0.84}	5.03E+37	8.99E+35
4311	58746.873063142	565.4 ^{+0.8} _{-0.8}	3.3 ^{+0.2} _{-0.2}	193 ⁺¹⁵ ₋₁₅	1388	21.87 ^{+1.21} _{-1.21}	72.17 ^{+0.27} _{-0.27}	7.73E+37	2.85E+35
4312	58746.873195646	565.8 ^{+0.9} _{-0.9}	4.3 ^{+0.3} _{-0.3}	151 ⁺¹⁷ ₋₁₇	1383	21.46 ^{+1.15} _{-1.15}	93.14 ^{+0.32} _{-0.32}	9.97E+37	3.45E+35
4313	58746.873195721	565.8 ^{+0.9} _{-0.9}	4.1 ^{+0.4} _{-0.4}	218 ⁺¹⁶ ₋₁₆	1345	19.86 ^{+1.30} _{-1.30}	81.43 ^{+0.58} _{-0.58}	8.72E+37	6.26E+35
4314	58746.873213555	563.7 ^{+1.1} _{-1.1}	5.8 ^{+1.5} _{-1.5}	87 ⁺²⁸ ₋₂₈	1351	7.28 ^{+0.08} _{-0.08}	42.59 ^{+0.13} _{-0.13}	4.81E+37	1.42E+35
4315	58746.874360087	563.3 ^{+1.4} _{-1.4}	4.6 ^{+0.8} _{-0.8}	117 ⁺³² ₋₃₂	1349	10.10 ^{+0.11} _{-0.11}	46.03 ^{+0.09} _{-0.09}	5.20E+37	9.80E+34
4316	58746.875614646	561.4 ^{+0.9} _{-0.9}	3.8 ^{+0.4} _{-0.4}	185 ⁺³⁷ ₋₃₇	1301	15.82 ^{+1.33} _{-1.33}	59.33 ^{+0.51} _{-0.51}	6.35E+37	5.41E+35
4317	58746.876071304	563.2 ^{+0.7} _{-0.7}	5.8 ^{+1.0} _{-1.0}	134 ⁺⁴⁶ ₋₄₆	1277	10.28 ^{+0.11} _{-0.11}	59.87 ^{+0.11} _{-0.11}	6.76E+37	1.27E+35
4318	58746.876202726	565.6 ^{+1.0} _{-1.0}	7.4 ^{+0.3} _{-0.3}	187 ⁺⁵ ₋₅	1405	27.20 ^{+0.89} _{-0.89}	202.37 ^{+0.27} _{-0.27}	2.17E+38	2.86E+35
4319	58746.876204476	565.7 ^{+0.8} _{-0.8}	3.8 ^{+1.0} _{-1.0}	122 ⁺¹¹ ₋₁₁	1119	15.74 ^{+7.93} _{-7.93}	59.50 ^{+8.25} _{-8.25}	6.37E+37	8.83E+36
4320	58746.876204518	565.7 ^{+0.8} _{-0.8}	7.4 ^{+1.6} _{-1.6}	171 ⁺⁷ ₋₇	1100	17.77 ^{+3.38} _{-3.38}	131.32 ^{+5.37} _{-5.37}	1.41E+38	5.75E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4321	58746.876548900	562.9 ^{+1.3} _{-1.3}	4.8 ^{+0.6} _{-0.6}	73 ⁺¹⁶ ₋₁₆	1430	10.45 ^{+0.12} _{-0.12}	50.34 ^{+0.07} _{-0.07}	5.69E+37	7.42E+34
4322	58746.877324427	563.3 ^{+1.3} _{-1.3}	6.4 ^{+0.8} _{-0.8}	152 ⁺³⁸ ₋₃₈	1337	9.93 ^{+0.97} _{-0.97}	63.35 ^{+0.74} _{-0.74}	6.78E+37	7.89E+35
4323	58746.878229128	565.0 ^{+0.9} _{-0.9}	2.7 ^{+0.5} _{-0.5}	93 ⁺²⁰ ₋₂₀	1354	9.13 ^{+0.10} _{-0.10}	24.92 ^{+0.05} _{-0.05}	2.82E+37	5.89E+34
4324	58746.878229292	564.9 ^{+0.6} _{-0.6}	4.6 ^{+1.9} _{-1.9}	183 ⁺⁵ ₋₅	1170	4.92 ^{+0.05} _{-0.05}	22.66 ^{+0.10} _{-0.10}	2.56E+37	1.13E+35
4325	58746.878647854	564.7 ^{+0.6} _{-0.6}	3.2 ^{+0.6} _{-0.6}	221 ⁺³⁰ ₋₃₀	1296	12.13 ^{+0.13} _{-0.13}	39.28 ^{+0.08} _{-0.08}	4.44E+37	8.68E+34
4326	58746.878966697	564.8 ^{+1.1} _{-1.1}	5.0 ^{+0.6} _{-0.6}	69 ⁺¹⁹ ₋₁₉	1434	8.82 ^{+0.10} _{-0.10}	44.39 ^{+0.06} _{-0.06}	5.01E+37	7.01E+34
4327	58746.878966755	564.9 ^{+0.8} _{-0.8}	6.2 ^{+0.7} _{-0.7}	152 ⁺²⁵ ₋₂₅	1220	11.93 ^{+0.13} _{-0.13}	74.55 ^{+0.09} _{-0.09}	8.42E+37	1.01E+35
4328	58746.879159863	563.5 ^{+1.0} _{-1.0}	4.8 ^{+0.8} _{-0.8}	181 ⁺⁴³ ₋₄₃	1368	13.35 ^{+0.15} _{-0.15}	64.33 ^{+0.12} _{-0.12}	7.27E+37	1.32E+35
4329	58746.879159943	564.1 ^{+1.0} _{-1.0}	2.4 ^{+0.8} _{-0.8}	50 ⁺⁹ ₋₉	1320	5.81 ^{+0.06} _{-0.06}	13.97 ^{+0.05} _{-0.05}	1.58E+37	5.55E+34
4330	58746.879160597	563.2 ^{+1.2} _{-1.2}	5.6 ^{+1.3} _{-1.3}	54 ⁺¹⁰ ₋₁₀	1351	6.37 ^{+0.07} _{-0.07}	35.36 ^{+0.09} _{-0.09}	4.00E+37	1.05E+35
4331	58746.879171747	562.5 ^{+1.3} _{-1.3}	10.3 ^{+1.9} _{-1.9}	131 ⁺¹⁸ ₋₁₈	1091	5.74 ^{+0.82} _{-0.82}	58.95 ^{+1.57} _{-1.57}	6.31E+37	1.69E+36
4332	58746.879172096	560.6 ^{+0.4} _{-0.4}	9.4 ^{+3.2} _{-3.2}	67 ⁺²⁰ ₋₂₀	1067	5.17 ^{+0.06} _{-0.06}	48.74 ^{+0.18} _{-0.18}	5.51E+37	2.03E+35
4333	58746.879173222	565.3 ^{+0.9} _{-0.9}	5.0 ^{+0.4} _{-0.4}	121 ⁺¹⁸ ₋₁₈	1313	19.41 ^{+1.12} _{-1.12}	97.63 ^{+0.39} _{-0.39}	1.05E+38	4.20E+35
4334	58746.879501586	562.8 ^{+1.4} _{-1.4}	9.3 ^{+1.4} _{-1.4}	194 ⁺²⁴ ₋₂₄	1125	7.86 ^{+0.89} _{-0.89}	73.33 ^{+1.21} _{-1.21}	7.85E+37	1.30E+36
4335	58746.879672357	563.7 ^{+0.4} _{-0.4}	3.0 ^{+0.4} _{-0.4}	111 ⁺²⁹ ₋₂₉	1375	12.34 ^{+0.13} _{-0.13}	37.01 ^{+0.05} _{-0.05}	4.18E+37	5.65E+34
4336	58746.879796181	564.2 ^{+0.7} _{-0.7}	4.3 ^{+1.2} _{-1.2}	49 ⁺⁶ ₋₆	1395	5.49 ^{+0.06} _{-0.06}	23.83 ^{+0.07} _{-0.07}	2.69E+37	8.05E+34
4337	58746.879796361	563.2 ^{+1.1} _{-1.1}	7.1 ^{+0.6} _{-0.6}	209 ⁺¹³ ₋₁₃	1173	14.34 ^{+0.93} _{-0.93}	101.38 ^{+0.53} _{-0.53}	1.09E+38	5.67E+35
4338	58746.879796376	563.2 ^{+1.1} _{-1.1}	5.6 ^{+0.4} _{-0.4}	390 ⁺⁹⁶ ₋₉₆	1203	5.43 ^{+0.81} _{-0.81}	30.46 ^{+0.33} _{-0.33}	3.26E+37	3.56E+35
4339	58746.879878841	563.2 ^{+1.1} _{-1.1}	5.1 ^{+0.9} _{-0.9}	106 ⁺¹⁵ ₋₁₅	1175	7.91 ^{+0.09} _{-0.09}	40.70 ^{+0.08} _{-0.08}	4.60E+37	8.83E+34
4340	58746.880289102	561.2 ^{+0.7} _{-0.7}	5.7 ^{+0.8} _{-0.8}	106 ⁺³ ₋₃	1113	5.53 ^{+0.06} _{-0.06}	31.36 ^{+0.38} _{-0.38}	3.36E+37	4.10E+35
4341	58746.881862889	564.7 ^{+0.6} _{-0.6}	2.8 ^{+0.2} _{-0.2}	162 ⁺²⁴ ₋₂₄	1404	24.87 ^{+1.41} _{-1.41}	69.88 ^{+0.27} _{-0.27}	7.48E+37	2.87E+35
4342	58746.882060090	564.9 ^{+0.6} _{-0.6}	3.5 ^{+0.5} _{-0.5}	136 ⁺⁵² ₋₅₂	1416	11.95 ^{+0.13} _{-0.13}	42.35 ^{+0.07} _{-0.07}	4.79E+37	7.79E+34
4343	58746.882518305	563.1 ^{+1.2} _{-1.2}	3.0 ^{+0.5} _{-0.5}	78 ⁺³³ ₋₃₃	1365	8.66 ^{+1.32} _{-1.32}	25.98 ^{+0.71} _{-0.71}	2.78E+37	7.63E+35
4344	58746.883234560	563.5 ^{+1.1} _{-1.1}	7.7 ^{+1.9} _{-1.9}	47 ⁺¹¹ ₋₁₁	1141	6.70 ^{+0.07} _{-0.07}	51.75 ^{+0.13} _{-0.13}	5.85E+37	1.50E+35
4345	58746.883825687	564.1 ^{+1.2} _{-1.2}	3.8 ^{+0.5} _{-0.5}	129 ⁺²⁴ ₋₂₄	1175	11.94 ^{+0.13} _{-0.13}	45.68 ^{+0.06} _{-0.06}	5.16E+37	7.28E+34
4346	58746.884227835	562.3 ^{+0.8} _{-0.8}	6.3 ^{+1.7} _{-1.7}	97 ⁺¹⁵ ₋₁₅	1087	4.92 ^{+0.05} _{-0.05}	30.78 ^{+0.09} _{-0.09}	3.48E+37	9.61E+34
4347	58746.884515328	565.5 ^{+0.4} _{-0.4}	2.5 ^{+0.2} _{-0.2}	165 ⁺¹⁷ ₋₁₇	1379	24.06 ^{+1.43} _{-1.43}	60.39 ^{+0.26} _{-0.26}	6.46E+37	2.76E+35
4348	58746.884515334	565.5 ^{+0.4} _{-0.4}	2.3 ^{+0.3} _{-0.3}	169 ⁺¹⁸ ₋₁₈	1374	22.43 ^{+1.69} _{-1.69}	52.49 ^{+0.51} _{-0.51}	5.62E+37	5.43E+35
4349	58746.884575466	563.0 ^{+1.4} _{-1.4}	4.9 ^{+0.8} _{-0.8}	56 ⁺³⁹ ₋₃₉	1365	7.58 ^{+1.08} _{-1.08}	37.29 ^{+0.91} _{-0.91}	3.99E+37	9.71E+35
4350	58746.884831364	565.4 ^{+1.3} _{-1.3}	7.8 ^{+1.0} _{-1.0}	80 ⁺²⁰ ₋₂₀	1280	8.47 ^{+0.82} _{-0.82}	66.40 ^{+0.78} _{-0.78}	7.11E+37	8.34E+35
4351	58746.884981045	563.8 ^{+1.3} _{-1.3}	4.3 ^{+0.7} _{-0.7}	219 ⁺¹¹ ₋₁₁	1261	12.19 ^{+0.13} _{-0.13}	52.53 ^{+0.08} _{-0.08}	5.94E+37	9.53E+34
4352	58746.885146636	562.8 ^{+1.3} _{-1.3}	4.9 ^{+1.0} _{-1.0}	97 ⁺⁴ ₋₄	1391	7.57 ^{+0.08} _{-0.08}	36.86 ^{+0.08} _{-0.08}	4.16E+37	8.51E+34
4353	58746.885753190	562.5 ^{+1.2} _{-1.2}	4.2 ^{+0.9} _{-0.9}	100 ⁺⁴⁶ ₋₄₆	1326	9.01 ^{+0.09} _{-0.09}	37.84 ^{+0.08} _{-0.08}	4.28E+37	9.48E+34
4354	58746.886047525	560.9 ^{+0.7} _{-0.7}	6.0 ^{+1.5} _{-1.5}	52 ⁺²⁸ ₋₂₈	1354	6.05 ^{+0.06} _{-0.06}	36.31 ^{+0.09} _{-0.09}	4.10E+37	1.07E+35
4355	58746.886294259	563.2 ^{+0.3} _{-0.3}	1.8 ^{+0.5} _{-0.5}	91 ⁺¹⁵ ₋₁₅	1423	9.32 ^{+0.10} _{-0.10}	16.95 ^{+0.05} _{-0.05}	1.92E+37	5.56E+34
4356	58746.887441514	563.4 ^{+1.0} _{-1.0}	2.7 ^{+0.2} _{-0.2}	161 ⁺³⁷ ₋₃₇	1289	18.17 ^{+1.44} _{-1.44}	48.51 ^{+0.36} _{-0.36}	5.19E+37	3.85E+35
4357	58746.887441572	563.4 ^{+1.0} _{-1.0}	2.3 ^{+0.4} _{-0.4}	103 ⁺³³ ₋₃₃	1206	17.03 ^{+1.55} _{-1.55}	39.85 ^{+0.54} _{-0.54}	4.27E+37	5.81E+35
4358	58746.887521869	566.4 ^{+0.8} _{-0.8}	6.3 ^{+0.3} _{-0.3}	356 ⁺¹⁴ ₋₁₄	1305	25.51 ^{+0.92} _{-0.92}	160.20 ^{+0.26} _{-0.26}	1.71E+38	2.76E+35
4359	58746.887959105	563.4 ^{+1.2} _{-1.2}	10.0 ^{+1.5} _{-1.5}	113 ⁺²⁷ ₋₂₇	1373	7.27 ^{+0.07} _{-0.07}	72.65 ^{+0.11} _{-0.11}	8.21E+37	1.23E+35
4360	58746.888119840	563.4 ^{+0.8} _{-0.8}	9.6 ^{+2.7} _{-2.7}	55 ⁺⁵⁸ ₋₅₈	1378	5.17 ^{+0.05} _{-0.05}	49.34 ^{+0.14} _{-0.14}	5.58E+37	1.58E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4361	58746.888391404	563.2 ^{+1.1} _{-1.1}	8.9 ^{+1.4} _{-1.4}	102 ⁺³⁵ ₋₃₅	1425	8.06 ^{+0.08} _{-0.08}	72.05 ^{+0.12} _{-0.12}	8.14E+37	1.32E+35
4362	58746.888803267	563.2 ^{+1.3} _{-1.3}	4.4 ^{+0.6} _{-0.6}	445 ⁺⁴⁸ ₋₄₈	1261	12.07 ^{+1.46} _{-1.46}	53.59 ^{+0.91} _{-0.91}	5.74E+37	9.69E+35
4363	58746.888803371	563.3 ^{+1.3} _{-1.3}	12.8 ^{+2.0} _{-2.0}	145 ⁺³² ₋₃₂	1336	9.18 ^{+0.75} _{-0.75}	117.14 ^{+1.52} _{-1.52}	1.25E+38	1.63E+36
4364	58746.888803840	562.9 ^{+1.5} _{-1.5}	6.8 ^{+1.8} _{-1.8}	87 ⁺⁴⁹ ₋₄₉	1224	7.52 ^{+0.07} _{-0.07}	51.32 ^{+0.13} _{-0.13}	5.80E+37	1.50E+35
4365	58746.888804846	563.3 ^{+1.3} _{-1.3}	5.8 ^{+0.8} _{-0.8}	145 ⁺³² ₋₃₂	1336	9.66 ^{+0.10} _{-0.10}	56.51 ^{+0.08} _{-0.08}	6.39E+37	8.63E+34
4366	58746.888930318	562.4 ^{+1.4} _{-1.4}	3.0 ^{+0.4} _{-0.4}	151 ⁺⁶¹ ₋₆₁	1399	10.65 ^{+1.29} _{-1.29}	32.27 ^{+0.58} _{-0.58}	3.45E+37	6.21E+35
4367	58746.889964281	562.1 ^{+1.0} _{-1.0}	3.0 ^{+0.4} _{-0.4}	86 ⁺⁴¹ ₋₄₁	1391	10.35 ^{+1.21} _{-1.21}	31.26 ^{+0.51} _{-0.51}	3.35E+37	5.44E+35
4368	58746.891822954	564.2 ^{+1.0} _{-1.0}	3.8 ^{+0.5} _{-0.5}	68 ⁺¹⁴ ₋₁₄	1370	10.84 ^{+1.15} _{-1.15}	40.76 ^{+0.55} _{-0.55}	4.36E+37	5.91E+35
4369	58746.891880867	563.5 ^{+1.1} _{-1.1}	3.0 ^{+0.3} _{-0.3}	128 ⁺³¹ ₋₃₁	1407	14.10 ^{+1.24} _{-1.24}	41.60 ^{+0.38} _{-0.38}	4.45E+37	4.11E+35
4370	58746.891881037	564.2 ^{+0.5} _{-0.5}	1.6 ^{+0.9} _{-0.9}	52 ⁺⁴ ₋₄	1384	2.36 ^{+0.02} _{-0.02}	3.77 ^{+0.02} _{-0.02}	4.26E+36	2.32E+34
4371	58746.891998469	564.7 ^{+0.6} _{-0.6}	4.1 ^{+1.0} _{-1.0}	176 ⁺⁶⁰ ₋₆₀	1188	6.52 ^{+0.06} _{-0.06}	26.53 ^{+0.06} _{-0.06}	3.00E+37	6.88E+34
4372	58746.891998702	562.3 ^{+0.8} _{-0.8}	6.6 ^{+1.0} _{-1.0}	135 ⁺⁶³ ₋₆₃	1187	2.97 ^{+0.03} _{-0.03}	19.76 ^{+0.22} _{-0.22}	2.11E+37	2.36E+35
4373	58746.892995695	563.0 ^{+1.1} _{-1.1}	5.3 ^{+0.8} _{-0.8}	157 ⁺²⁷ ₋₂₇	1239	6.96 ^{+0.85} _{-0.85}	36.89 ^{+0.66} _{-0.66}	3.95E+37	7.10E+35
4374	58746.893334873	565.1 ^{+0.5} _{-0.5}	4.0 ^{+0.2} _{-0.2}	99 ⁺¹⁹ ₋₁₉	1417	22.80 ^{+1.02} _{-1.02}	90.97 ^{+0.21} _{-0.21}	9.74E+37	2.29E+35
4375	58746.893334965	563.8 ^{+0.5} _{-0.5}	2.1 ^{+0.4} _{-0.4}	304 ⁺³¹ ₋₃₁	1211	18.76 ^{+1.30} _{-1.30}	39.40 ^{+0.46} _{-0.46}	4.22E+37	4.87E+35
4376	58746.893443387	565.1 ^{+0.5} _{-0.5}	2.7 ^{+0.4} _{-0.4}	99 ⁺¹⁹ ₋₁₉	1417	11.20 ^{+0.11} _{-0.11}	30.34 ^{+0.05} _{-0.05}	3.43E+37	5.30E+34
4377	58746.894245951	564.5 ^{+0.9} _{-0.9}	3.1 ^{+0.6} _{-0.6}	106 ⁺⁴⁷ ₋₄₇	1234	9.83 ^{+0.09} _{-0.09}	30.42 ^{+0.05} _{-0.05}	3.44E+37	6.01E+34
4378	58746.894669895	562.6 ^{+1.0} _{-1.0}	4.7 ^{+0.9} _{-0.9}	73 ⁺⁵⁵ ₋₅₅	1125	7.63 ^{+0.07} _{-0.07}	36.04 ^{+0.06} _{-0.06}	4.07E+37	7.31E+34
4379	58746.894670264	561.6 ^{+1.0} _{-1.0}	4.6 ^{+2.2} _{-2.2}	83 ⁺⁴ ₋₄	1119	5.03 ^{+0.05} _{-0.05}	23.07 ^{+0.10} _{-0.10}	2.61E+37	1.18E+35
4380	58746.894755011	563.8 ^{+0.5} _{-0.5}	3.3 ^{+0.6} _{-0.6}	225 ⁺²⁴ ₋₂₄	1153	12.92 ^{+2.09} _{-2.09}	42.64 ^{+1.17} _{-1.17}	4.56E+37	1.25E+36
4381	58746.894755049	564.7 ^{+0.3} _{-0.3}	10.0 ^{+1.5} _{-1.5}	281 ⁺¹⁴ ₋₁₄	1357	10.52 ^{+0.85} _{-0.85}	104.88 ^{+1.24} _{-1.24}	1.12E+38	1.33E+36
4382	58746.894783857	565.3 ^{+0.7} _{-0.7}	2.6 ^{+0.1} _{-0.1}	267 ⁺¹⁰ ₋₁₀	1356	61.11 ^{+1.37} _{-1.37}	157.66 ^{+0.10} _{-0.10}	1.69E+38	1.03E+35
4383	58746.894847176	562.7 ^{+1.1} _{-1.1}	6.9 ^{+1.5} _{-1.5}	145 ⁺⁴³ ₋₄₃	1302	6.54 ^{+0.06} _{-0.06}	45.22 ^{+0.09} _{-0.09}	5.11E+37	1.05E+35
4384	58746.895297360	562.8 ^{+1.2} _{-1.2}	10.1 ^{+1.8} _{-1.8}	121 ⁺²¹ ₋₂₁	1117	6.91 ^{+0.07} _{-0.07}	69.73 ^{+0.12} _{-0.12}	7.87E+37	1.35E+35
4385	58746.896492298	562.9 ^{+1.1} _{-1.1}	7.7 ^{+1.6} _{-1.6}	135 ⁺³⁹ ₋₃₉	1249	6.87 ^{+0.07} _{-0.07}	52.82 ^{+0.10} _{-0.10}	5.97E+37	1.16E+35
4386	58746.897176149	563.3 ^{+1.4} _{-1.4}	4.9 ^{+1.4} _{-1.4}	73 ⁺³⁵ ₋₃₅	1112	6.05 ^{+0.06} _{-0.06}	29.77 ^{+0.08} _{-0.08}	3.36E+37	8.90E+34
4387	58746.898032407	563.1 ^{+1.1} _{-1.1}	4.6 ^{+0.7} _{-0.7}	100 ⁺⁷³ ₋₇₃	1139	11.77 ^{+0.11} _{-0.11}	54.43 ^{+0.07} _{-0.07}	6.15E+37	8.26E+34
4388	58746.898983086	563.8 ^{+1.0} _{-1.0}	4.7 ^{+0.9} _{-0.9}	67 ⁺⁹ ₋₉	1349	9.69 ^{+0.09} _{-0.09}	45.61 ^{+0.08} _{-0.08}	5.15E+37	9.48E+34
4389	58746.899243616	562.9 ^{+1.3} _{-1.3}	2.5 ^{+0.6} _{-0.6}	70 ⁺⁵⁵ ₋₅₅	1350	8.59 ^{+0.08} _{-0.08}	21.46 ^{+0.05} _{-0.05}	2.43E+37	5.66E+34
4390	58746.899344766	562.6 ^{+0.6} _{-0.6}	3.6 ^{+0.6} _{-0.6}	114 ⁺⁵² ₋₅₂	1374	8.05 ^{+0.07} _{-0.07}	28.88 ^{+0.04} _{-0.04}	3.26E+37	4.93E+34
4391	58746.900707170	563.5 ^{+0.3} _{-0.3}	3.5 ^{+0.5} _{-0.5}	82 ⁺¹² ₋₁₂	1360	10.57 ^{+0.10} _{-0.10}	36.55 ^{+0.05} _{-0.05}	4.13E+37	5.73E+34
4392	58746.900854511	563.5 ^{+0.7} _{-0.7}	3.4 ^{+0.8} _{-0.8}	95 ⁺³⁴ ₋₃₄	1403	8.43 ^{+0.08} _{-0.08}	28.87 ^{+0.06} _{-0.06}	3.26E+37	6.97E+34
4393	58746.901199446	561.7 ^{+1.0} _{-1.0}	6.5 ^{+1.8} _{-1.8}	58 ⁺²⁸ ₋₂₈	1419	6.45 ^{+0.06} _{-0.06}	42.00 ^{+0.11} _{-0.11}	4.75E+37	1.21E+35
4394	58746.901200564	564.1 ^{+1.2} _{-1.2}	6.6 ^{+0.8} _{-0.8}	225 ⁺²² ₋₂₂	1375	17.08 ^{+0.15} _{-0.15}	113.50 ^{+0.13} _{-0.13}	1.28E+38	1.44E+35
4395	58746.901403713	563.0 ^{+1.3} _{-1.3}	3.8 ^{+0.6} _{-0.6}	90 ⁺³³ ₋₃₃	1330	20.14 ^{+0.18} _{-0.18}	77.22 ^{+0.80} _{-0.80}	8.27E+37	8.54E+35
4396	58747.841297401	565.3 ^{+0.6} _{-0.6}	10.8 ^{+1.1} _{-1.1}	79 ⁺¹⁴ ₋₁₄	1359	12.09 ^{+0.14} _{-0.14}	130.18 ^{+0.15} _{-0.15}	1.47E+38	1.69E+35
4397	58747.843305800	564.2 ^{+1.3} _{-1.3}	7.5 ^{+0.8} _{-0.8}	186 ⁺¹¹ ₋₁₁	1243	10.03 ^{+0.92} _{-0.92}	74.92 ^{+0.78} _{-0.78}	8.02E+37	8.37E+35
4398	58747.843807011	564.0 ^{+0.9} _{-0.9}	6.6 ^{+1.7} _{-1.7}	81 ⁺⁴⁶ ₋₄₆	1240	9.85 ^{+0.11} _{-0.11}	65.16 ^{+0.19} _{-0.19}	7.36E+37	2.16E+35
4399	58747.844378030	563.8 ^{+1.1} _{-1.1}	5.9 ^{+1.3} _{-1.3}	46 ⁺⁶ ₋₆	1127	9.76 ^{+0.11} _{-0.11}	57.89 ^{+0.14} _{-0.14}	6.54E+37	1.63E+35
4400	58747.844378380	563.5 ^{+1.3} _{-1.3}	7.8 ^{+1.2} _{-1.2}	128 ⁺²⁸ ₋₂₈	1327	7.83 ^{+0.82} _{-0.82}	61.39 ^{+1.02} _{-1.02}	6.57E+37	1.09E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4401	58747.844745360	561.6 ^{+0.8} _{-0.8}	9.6 ^{+1.6} _{-1.6}	86 ⁺⁴² ₋₄₂	1382	5.81 ^{+0.77} _{-0.77}	55.72 ^{+1.26} _{-1.26}	5.96E+37	1.35E+36
4402	58747.844745777	563.2 ^{+1.0} _{-1.0}	8.8 ^{+3.8} _{-3.8}	86 ⁺²⁹ ₋₂₉	1396	6.43 ^{+0.07} _{-0.07}	56.83 ^{+0.27} _{-0.27}	6.42E+37	3.00E+35
4403	58747.845152839	563.7 ^{+1.0} _{-1.0}	4.8 ^{+0.8} _{-0.8}	187 ⁺²¹ ₋₂₁	1379	7.78 ^{+1.05} _{-1.05}	37.34 ^{+0.82} _{-0.82}	4.00E+37	8.77E+35
4404	58747.845264971	562.8 ^{+1.3} _{-1.3}	2.6 ^{+0.7} _{-0.7}	73 ⁺¹⁵ ₋₁₅	1442	8.33 ^{+0.09} _{-0.09}	21.31 ^{+0.07} _{-0.07}	2.41E+37	7.61E+34
4405	58747.845524820	563.6 ^{+1.2} _{-1.2}	4.0 ^{+1.1} _{-1.1}	137 ⁺³² ₋₃₂	1285	9.30 ^{+0.10} _{-0.10}	37.54 ^{+0.11} _{-0.11}	4.24E+37	1.20E+35
4406	58747.847254174	563.0 ^{+0.0} _{-0.0}	3.5 ^{+0.2} _{-0.2}	488 ⁺⁵ ₋₅	1255	21.12 ^{+1.22} _{-1.22}	74.34 ^{+0.29} _{-0.29}	7.96E+37	3.13E+35
4407	58747.848012081	563.3 ^{+1.2} _{-1.2}	2.9 ^{+0.9} _{-0.9}	38 ⁺²² ₋₂₂	1408	7.54 ^{+0.08} _{-0.08}	21.93 ^{+0.07} _{-0.07}	2.48E+37	7.84E+34
4408	58747.848034443	562.9 ^{+0.6} _{-0.6}	10.1 ^{+4.2} _{-4.2}	71 ⁺⁴⁰ ₋₄₀	1105	5.37 ^{+0.06} _{-0.06}	54.20 ^{+0.23} _{-0.23}	6.12E+37	2.59E+35
4409	58747.849335528	563.4 ^{+1.4} _{-1.4}	5.8 ^{+1.4} _{-1.4}	99 ⁺¹⁸ ₋₁₈	1193	9.87 ^{+0.10} _{-0.10}	57.19 ^{+0.14} _{-0.14}	6.46E+37	1.57E+35
4410	58747.849497822	562.4 ^{+1.3} _{-1.3}	3.2 ^{+0.4} _{-0.4}	117 ⁺³⁷ ₋₃₇	1093	17.06 ^{+0.17} _{-0.17}	54.10 ^{+0.07} _{-0.07}	6.11E+37	8.28E+34
4411	58747.850522293	563.0 ^{+0.0} _{-0.0}	2.4 ^{+0.0} _{-0.0}	498 ⁺² ₋₂	1250	896.24 ^{+5.01} _{-5.01}	2168.90 ^{+0.10} _{-0.10}	2.32E+39	1.07E+35
4412	58747.850658935	563.4 ^{+1.2} _{-1.2}	2.8 ^{+0.7} _{-0.7}	144 ⁺¹¹⁶ ₋₁₁₆	1294	7.37 ^{+0.07} _{-0.07}	20.64 ^{+0.05} _{-0.05}	2.33E+37	5.88E+34
4413	58747.851408445	563.0 ^{+0.4} _{-0.4}	3.7 ^{+0.5} _{-0.5}	87 ⁺⁵³ ₋₅₃	1375	11.39 ^{+1.33} _{-1.33}	41.80 ^{+0.68} _{-0.68}	4.47E+37	7.26E+35
4414	58747.851731457	562.7 ^{+1.2} _{-1.2}	2.9 ^{+0.4} _{-0.4}	157 ⁺⁵⁴ ₋₅₄	1409	13.23 ^{+1.56} _{-1.56}	37.97 ^{+0.62} _{-0.62}	4.06E+37	6.68E+35
4415	58747.851731616	563.0 ^{+1.3} _{-1.3}	5.2 ^{+1.7} _{-1.7}	54 ⁺²⁴ ₋₂₄	1425	6.39 ^{+0.06} _{-0.06}	33.13 ^{+0.10} _{-0.10}	3.74E+37	1.16E+35
4416	58747.853368021	563.0 ^{+1.3} _{-1.3}	3.2 ^{+0.7} _{-0.7}	116 ⁺¹¹ ₋₁₁	1264	11.11 ^{+0.14} _{-0.14}	35.51 ^{+0.10} _{-0.10}	4.01E+37	1.16E+35
4417	58747.853715304	563.8 ^{+1.1} _{-1.1}	3.2 ^{+0.6} _{-0.6}	145 ⁺⁷⁴ ₋₇₄	1384	10.79 ^{+0.14} _{-0.14}	34.31 ^{+0.09} _{-0.09}	3.88E+37	9.74E+34
4418	58747.853736693	563.2 ^{+1.1} _{-1.1}	6.2 ^{+1.1} _{-1.1}	198 ⁺⁴² ₋₄₂	1238	13.09 ^{+0.17} _{-0.17}	80.58 ^{+0.18} _{-0.18}	9.11E+37	2.05E+35
4419	58747.854343660	563.9 ^{+1.1} _{-1.1}	3.1 ^{+0.5} _{-0.5}	93 ⁺³⁵ ₋₃₅	1261	15.35 ^{+0.20} _{-0.20}	48.16 ^{+0.10} _{-0.10}	5.44E+37	1.09E+35
4420	58747.854350546	563.4 ^{+1.0} _{-1.0}	3.0 ^{+0.3} _{-0.3}	84 ⁺²⁴ ₋₂₄	1434	17.21 ^{+1.33} _{-1.33}	52.49 ^{+0.37} _{-0.37}	5.62E+37	3.99E+35
4421	58747.854592601	562.4 ^{+1.2} _{-1.2}	7.8 ^{+1.2} _{-1.2}	68 ⁺²³ ₋₂₃	1448	6.64 ^{+0.83} _{-0.83}	51.46 ^{+1.00} _{-1.00}	5.51E+37	1.08E+36
4422	58747.856595692	562.8 ^{+1.3} _{-1.3}	3.4 ^{+0.5} _{-0.5}	72 ⁺²⁶ ₋₂₆	1409	11.68 ^{+0.15} _{-0.15}	39.32 ^{+0.08} _{-0.08}	4.44E+37	8.92E+34
4423	58747.858745146	563.6 ^{+0.8} _{-0.8}	5.8 ^{+0.7} _{-0.7}	106 ⁺²⁵ ₋₂₅	1332	9.94 ^{+1.01} _{-1.01}	57.55 ^{+0.72} _{-0.72}	6.16E+37	7.68E+35
4424	58747.859270726	562.7 ^{+1.2} _{-1.2}	2.8 ^{+0.8} _{-0.8}	250 ⁺³ ₋₃	1241	5.52 ^{+0.07} _{-0.07}	15.62 ^{+0.05} _{-0.05}	1.76E+37	5.95E+34
4425	58747.859271320	562.5 ^{+1.2} _{-1.2}	8.4 ^{+1.6} _{-1.6}	149 ⁺⁶⁶ ₋₆₆	1313	6.28 ^{+0.08} _{-0.08}	52.47 ^{+0.13} _{-0.13}	5.93E+37	1.41E+35
4426	58747.859516213	564.2 ^{+0.6} _{-0.6}	4.5 ^{+0.5} _{-0.5}	258 ⁺⁵¹ ₋₅₁	1227	12.46 ^{+1.06} _{-1.06}	55.95 ^{+0.49} _{-0.49}	5.99E+37	5.22E+35
4427	58747.860910026	564.2 ^{+0.8} _{-0.8}	2.3 ^{+0.4} _{-0.4}	224 ⁺⁷¹ ₋₇₁	1380	10.34 ^{+1.63} _{-1.63}	23.99 ^{+0.70} _{-0.70}	2.57E+37	7.50E+35
4428	58747.861004243	564.4 ^{+1.0} _{-1.0}	5.0 ^{+1.4} _{-1.4}	83 ⁺¹⁵ ₋₁₅	1400	7.50 ^{+0.09} _{-0.09}	37.21 ^{+0.13} _{-0.13}	4.20E+37	1.43E+35
4429	58747.861043022	564.2 ^{+1.2} _{-1.2}	6.5 ^{+1.8} _{-1.8}	116 ⁺⁴⁶ ₋₄₆	1385	8.08 ^{+0.10} _{-0.10}	52.90 ^{+0.18} _{-0.18}	5.98E+37	2.02E+35
4430	58747.862229559	563.0 ^{+1.1} _{-1.1}	3.8 ^{+0.5} _{-0.5}	167 ⁺³⁹ ₋₃₉	1400	11.75 ^{+1.26} _{-1.26}	45.12 ^{+0.62} _{-0.62}	4.83E+37	6.61E+35
4431	58747.862229582	563.0 ^{+1.1} _{-1.1}	3.1 ^{+0.5} _{-0.5}	152 ⁺³⁰ ₋₃₀	1405	10.01 ^{+1.20} _{-1.20}	31.13 ^{+0.62} _{-0.62}	3.33E+37	6.68E+35
4432	58747.862489035	565.2 ^{+0.5} _{-0.5}	2.6 ^{+0.1} _{-0.1}	234 ⁺²⁷ ₋₂₇	1376	37.80 ^{+1.38} _{-1.38}	98.28 ^{+0.15} _{-0.15}	1.05E+38	1.62E+35
4433	58747.862489041	565.2 ^{+0.5} _{-0.5}	2.3 ^{+0.2} _{-0.2}	173 ⁺¹⁰ ₋₁₀	1406	34.69 ^{+1.50} _{-1.50}	79.79 ^{+0.32} _{-0.32}	8.54E+37	3.37E+35
4434	58747.863461847	564.8 ^{+1.3} _{-1.3}	6.7 ^{+0.7} _{-0.7}	148 ⁺¹⁴ ₋₁₄	1334	11.41 ^{+1.00} _{-1.00}	76.90 ^{+0.72} _{-0.72}	8.23E+37	7.71E+35
4435	58747.864452086	562.7 ^{+1.2} _{-1.2}	4.7 ^{+0.9} _{-0.9}	81 ⁺³¹ ₋₃₁	1124	6.81 ^{+1.06} _{-1.06}	32.21 ^{+0.93} _{-0.93}	3.45E+37	9.99E+35
4436	58747.864516164	562.8 ^{+1.4} _{-1.4}	4.9 ^{+1.8} _{-1.8}	51 ⁺²³ ₋₂₃	1428	6.98 ^{+0.08} _{-0.08}	33.94 ^{+0.15} _{-0.15}	3.84E+37	1.68E+35
4437	58747.865111904	563.2 ^{+1.2} _{-1.2}	4.6 ^{+0.9} _{-0.9}	109 ⁺⁴⁵ ₋₄₅	1399	10.42 ^{+0.12} _{-0.12}	47.49 ^{+0.12} _{-0.12}	5.37E+37	1.30E+35
4438	58747.865475794	563.3 ^{+0.8} _{-0.8}	4.0 ^{+0.8} _{-0.8}	152 ⁺²⁴ ₋₂₄	1179	8.53 ^{+1.34} _{-1.34}	34.38 ^{+1.01} _{-1.01}	3.68E+37	1.08E+36
4439	58747.865811185	563.4 ^{+0.6} _{-0.6}	2.6 ^{+0.4} _{-0.4}	79 ⁺²⁷ ₋₂₇	1090	10.82 ^{+1.32} _{-1.32}	28.24 ^{+0.49} _{-0.49}	3.02E+37	5.23E+35
4440	58747.866274889	564.0 ^{+0.5} _{-0.5}	2.2 ^{+0.2} _{-0.2}	234 ⁺³⁴ ₋₃₄	1231	23.89 ^{+0.28} _{-0.28}	53.01 ^{+0.05} _{-0.05}	5.99E+37	5.96E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4441	58747.867075354	562.4 ^{+1.2} _{-1.2}	5.2 ^{+1.0} _{-1.0}	57 ⁺⁵³ ₋₅₃	1319	11.56 ^{+0.13} _{-0.13}	60.61 ^{+0.14} _{-0.14}	6.85E+37	1.59E+35
4442	58748.910868816	564.1 ^{+0.4} _{-0.4}	3.6 ^{+0.5} _{-0.5}	222 ⁺¹⁴ ₋₁₄	1342	18.46 ^{+0.15} _{-0.15}	66.30 ^{+0.60} _{-0.60}	7.10E+37	6.47E+35
4443	58748.910987822	563.3 ^{+1.3} _{-1.3}	2.6 ^{+0.7} _{-0.7}	126 ⁺⁵ ₋₅	1156	7.18 ^{+0.06} _{-0.06}	18.54 ^{+0.04} _{-0.04}	2.09E+37	4.42E+34
4444	58748.910988286	563.8 ^{+0.9} _{-0.9}	3.7 ^{+0.5} _{-0.5}	105 ⁺²³ ₋₂₃	1292	11.29 ^{+0.09} _{-0.09}	42.00 ^{+0.05} _{-0.05}	4.74E+37	5.15E+34
4445	58748.911454535	564.8 ^{+0.2} _{-0.2}	4.2 ^{+0.6} _{-0.6}	274 ⁺¹⁶ ₋₁₆	1344	37.24 ^{+0.30} _{-0.30}	155.41 ^{+1.41} _{-1.41}	1.66E+38	1.51E+36
4446	58748.913079751	563.1 ^{+1.1} _{-1.1}	2.8 ^{+0.4} _{-0.4}	72 ⁺¹³ ₋₁₃	1085	8.80 ^{+0.07} _{-0.07}	24.44 ^{+0.22} _{-0.22}	2.62E+37	2.35E+35
4447	58748.913286066	563.3 ^{+1.3} _{-1.3}	2.4 ^{+0.7} _{-0.7}	102 ⁺⁸ ₋₈	1165	8.00 ^{+0.06} _{-0.06}	19.32 ^{+0.04} _{-0.04}	2.18E+37	4.89E+34
4448	58748.913712891	562.8 ^{+1.4} _{-1.4}	4.9 ^{+0.5} _{-0.5}	220 ⁺³⁶ ₋₃₆	1371	9.66 ^{+0.80} _{-0.80}	47.43 ^{+0.39} _{-0.39}	5.08E+37	4.20E+35
4449	58748.913713515	563.7 ^{+1.1} _{-1.1}	2.9 ^{+0.5} _{-0.5}	57 ⁺³³ ₋₃₃	1386	7.13 ^{+1.00} _{-1.00}	20.46 ^{+0.48} _{-0.48}	2.19E+37	5.14E+35
4450	58748.915167706	563.9 ^{+0.9} _{-0.9}	1.6 ^{+0.3} _{-0.3}	108 ⁺⁶⁵ ₋₆₅	1215	9.82 ^{+0.08} _{-0.08}	16.11 ^{+0.03} _{-0.03}	1.82E+37	2.85E+34
4451	58748.915167910	563.6 ^{+1.2} _{-1.2}	8.9 ^{+0.9} _{-0.9}	147 ⁺¹² ₋₁₂	1142	8.62 ^{+0.66} _{-0.66}	76.80 ^{+0.57} _{-0.57}	8.22E+37	6.15E+35
4452	58748.915201805	564.5 ^{+0.9} _{-0.9}	2.0 ^{+0.4} _{-0.4}	314 ⁺²⁷ ₋₂₇	1292	10.60 ^{+1.61} _{-1.61}	21.31 ^{+0.61} _{-0.61}	2.28E+37	6.55E+35
4453	58748.915201817	564.5 ^{+0.9} _{-0.9}	9.0 ^{+0.7} _{-0.7}	422 ⁺¹⁷ ₋₁₇	1239	13.31 ^{+1.19} _{-1.19}	120.32 ^{+0.83} _{-0.83}	1.29E+38	8.92E+35
4454	58748.915206054	563.2 ^{+1.1} _{-1.1}	6.9 ^{+1.2} _{-1.2}	112 ⁺³⁸ ₋₃₈	1376	5.29 ^{+0.75} _{-0.75}	36.45 ^{+0.90} _{-0.90}	3.90E+37	9.63E+35
4455	58748.916422369	564.5 ^{+1.0} _{-1.0}	4.8 ^{+0.8} _{-0.8}	103 ⁺³⁹ ₋₃₉	1321	8.46 ^{+0.07} _{-0.07}	40.35 ^{+0.05} _{-0.05}	4.56E+37	5.88E+34
4456	58748.916422712	560.9 ^{+0.5} _{-0.5}	3.3 ^{+2.5} _{-2.5}	90 ⁺⁴³ ₋₄₃	1161	3.74 ^{+0.03} _{-0.03}	12.38 ^{+0.07} _{-0.07}	1.40E+37	8.33E+34
4457	58748.916682116	562.7 ^{+1.3} _{-1.3}	3.4 ^{+0.8} _{-0.8}	63 ⁺³⁵ ₋₃₅	1109	7.65 ^{+0.06} _{-0.06}	25.96 ^{+0.05} _{-0.05}	2.93E+37	5.56E+34
4458	58748.917143732	565.3 ^{+0.5} _{-0.5}	4.4 ^{+0.3} _{-0.3}	152 ⁺¹⁵ ₋₁₅	1299	14.53 ^{+0.75} _{-0.75}	64.51 ^{+0.20} _{-0.20}	6.91E+37	2.17E+35
4459	58748.917143737	565.3 ^{+0.5} _{-0.5}	5.2 ^{+0.5} _{-0.5}	214 ⁺¹⁵ ₋₁₅	1242	4.29 ^{+1.21} _{-1.21}	22.35 ^{+0.64} _{-0.64}	2.39E+37	6.86E+35
4460	58748.917339495	563.6 ^{+1.4} _{-1.4}	5.7 ^{+1.7} _{-1.7}	251 ⁺⁵⁷ ₋₅₇	1321	7.16 ^{+0.06} _{-0.06}	40.97 ^{+0.09} _{-0.09}	4.63E+37	1.03E+35
4461	58748.917726016	564.7 ^{+0.9} _{-0.9}	3.4 ^{+0.6} _{-0.6}	205 ⁺⁵¹ ₋₅₁	1271	13.36 ^{+0.10} _{-0.10}	45.08 ^{+0.06} _{-0.06}	5.09E+37	6.93E+34
4462	58748.918103802	563.6 ^{+1.2} _{-1.2}	0.8 ^{+0.3} _{-0.3}	91 ⁺³⁴ ₋₃₄	1298	5.96 ^{+2.01} _{-2.01}	4.65 ^{+0.66} _{-0.66}	4.98E+36	7.10E+35
4463	58748.918103827	563.6 ^{+1.2} _{-1.2}	3.6 ^{+0.7} _{-0.7}	152 ⁺³⁷ ₋₃₇	1209	7.13 ^{+0.81} _{-0.81}	25.45 ^{+0.54} _{-0.54}	2.72E+37	5.81E+35
4464	58748.918708229	562.8 ^{+1.3} _{-1.3}	12.3 ^{+6.3} _{-6.3}	101 ⁺⁶⁸ ₋₆₈	1142	4.83 ^{+0.04} _{-0.04}	59.22 ^{+0.23} _{-0.23}	6.69E+37	2.64E+35
4465	58748.920130464	564.2 ^{+0.6} _{-0.6}	12.9 ^{+3.0} _{-3.0}	115 ⁺³ ₋₃	1383	8.24 ^{+0.06} _{-0.06}	106.43 ^{+0.19} _{-0.19}	1.20E+38	2.09E+35
4466	58748.920836567	563.3 ^{+0.3} _{-0.3}	3.2 ^{+0.4} _{-0.4}	89 ⁺⁵⁶ ₋₅₆	1331	13.15 ^{+0.10} _{-0.10}	42.04 ^{+0.04} _{-0.04}	4.75E+37	4.85E+34
4467	58748.920857937	563.6 ^{+0.8} _{-0.8}	3.5 ^{+0.9} _{-0.9}	54 ⁺³³ ₋₃₃	1366	6.96 ^{+0.05} _{-0.05}	24.33 ^{+0.05} _{-0.05}	2.75E+37	5.28E+34
4468	58748.920888093	564.1 ^{+0.8} _{-0.8}	3.6 ^{+0.7} _{-0.7}	69 ⁺³⁹ ₋₃₉	1206	6.28 ^{+0.99} _{-0.99}	22.92 ^{+0.67} _{-0.67}	2.45E+37	7.21E+35
4469	58748.921098459	563.1 ^{+1.5} _{-1.5}	5.6 ^{+1.5} _{-1.5}	57 ⁺⁸ ₋₈	1405	5.02 ^{+0.04} _{-0.04}	28.35 ^{+0.06} _{-0.06}	3.20E+37	6.33E+34
4470	58748.921810707	564.5 ^{+1.0} _{-1.0}	15.5 ^{+4.1} _{-4.1}	103 ⁺⁸ ₋₈	1375	5.45 ^{+0.04} _{-0.04}	84.63 ^{+0.17} _{-0.17}	9.56E+37	1.89E+35
4471	58748.921925283	564.1 ^{+0.8} _{-0.8}	2.6 ^{+0.3} _{-0.3}	64 ⁺²⁸ ₋₂₈	1416	11.80 ^{+0.09} _{-0.09}	30.29 ^{+0.03} _{-0.03}	3.42E+37	3.39E+34
4472	58748.922322782	564.2 ^{+1.2} _{-1.2}	1.8 ^{+1.2} _{-1.2}	117 ⁺⁸⁴ ₋₈₄	1359	3.58 ^{+0.03} _{-0.03}	6.46 ^{+0.03} _{-0.03}	7.30E+36	3.79E+34
4473	58748.922548832	562.8 ^{+1.3} _{-1.3}	4.2 ^{+1.1} _{-1.1}	68 ⁺⁵⁰ ₋₅₀	1285	4.50 ^{+0.03} _{-0.03}	19.12 ^{+0.04} _{-0.04}	2.16E+37	4.11E+34
4474	58748.922892135	564.3 ^{+1.0} _{-1.0}	2.1 ^{+0.5} _{-0.5}	61 ⁺¹⁹ ₋₁₉	1355	5.32 ^{+0.04} _{-0.04}	11.12 ^{+0.02} _{-0.02}	1.26E+37	2.30E+34
4475	58748.923062179	563.8 ^{+0.3} _{-0.3}	5.0 ^{+2.5} _{-2.5}	53 ⁺³⁶ ₋₃₆	1399	4.80 ^{+0.04} _{-0.04}	24.03 ^{+0.09} _{-0.09}	2.72E+37	1.01E+35
4476	58748.923062342	563.6 ^{+0.9} _{-0.9}	2.4 ^{+0.6} _{-0.6}	76 ⁺⁷⁵ ₋₇₅	1322	5.21 ^{+1.08} _{-1.08}	12.56 ^{+0.64} _{-0.64}	1.34E+37	6.82E+35
4477	58748.923063352	563.7 ^{+1.2} _{-1.2}	2.8 ^{+0.8} _{-0.8}	125 ⁺⁵⁶ ₋₅₆	1186	7.67 ^{+0.06} _{-0.06}	21.78 ^{+0.05} _{-0.05}	2.46E+37	5.20E+34
4478	58748.923660073	564.6 ^{+1.0} _{-1.0}	2.2 ^{+1.3} _{-1.3}	146 ⁺¹⁸ ₋₁₈	1413	3.30 ^{+1.70} _{-1.70}	7.29 ^{+2.16} _{-2.16}	7.81E+36	2.31E+36
4479	58748.923660123	564.5 ^{+0.3} _{-0.3}	5.4 ^{+0.8} _{-0.8}	234 ⁺³¹ ₋₃₁	1151	10.39 ^{+0.80} _{-0.80}	55.90 ^{+0.67} _{-0.67}	5.98E+37	7.19E+35
4480	58748.923660370	562.4 ^{+0.7} _{-0.7}	8.7 ^{+1.2} _{-1.2}	63 ⁺⁴ ₋₄	1075	6.19 ^{+0.62} _{-0.62}	53.73 ^{+0.71} _{-0.71}	5.75E+37	7.63E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4481	58748.924143846	562.7 ^{+0.4} _{-0.4}	6.8 ^{+1.8} _{-1.8}	93 ⁺⁴ ₋₄	1094	6.45 ^{+0.05} _{-0.05}	43.94 ^{+0.09} _{-0.09}	4.97E+37	9.66E+34
4482	58748.924305184	563.6 ^{+1.4} _{-1.4}	5.4 ^{+0.9} _{-0.9}	120 ⁺³⁶ ₋₃₆	1082	5.24 ^{+0.76} _{-0.76}	28.09 ^{+0.71} _{-0.71}	3.01E+37	7.65E+35
4483	58748.924415505	563.6 ^{+1.3} _{-1.3}	4.2 ^{+1.9} _{-1.9}	23 ⁺⁵ ₋₅	1437	3.56 ^{+0.03} _{-0.03}	14.88 ^{+0.05} _{-0.05}	1.68E+37	5.65E+34
4484	58748.924784204	564.6 ^{+1.0} _{-1.0}	5.2 ^{+1.0} _{-1.0}	198 ⁺²³ ₋₂₃	1365	7.84 ^{+0.06} _{-0.06}	40.52 ^{+0.06} _{-0.06}	4.58E+37	6.48E+34
4485	58748.925287891	564.3 ^{+1.0} _{-1.0}	6.3 ^{+0.9} _{-0.9}	161 ⁺¹³ ₋₁₃	1149	6.61 ^{+0.77} _{-0.77}	41.71 ^{+0.69} _{-0.69}	4.46E+37	7.34E+35
4486	58748.926184763	565.4 ^{+0.5} _{-0.5}	4.2 ^{+0.3} _{-0.3}	207 ⁺¹⁶ ₋₁₆	1198	15.44 ^{+0.88} _{-0.88}	64.69 ^{+0.26} _{-0.26}	6.93E+37	2.73E+35
4487	58748.926184831	565.4 ^{+0.5} _{-0.5}	4.1 ^{+0.4} _{-0.4}	192 ⁺²⁵ ₋₂₅	1166	18.48 ^{+1.12} _{-1.12}	75.40 ^{+0.50} _{-0.50}	8.07E+37	5.40E+35
4488	58748.926470781	563.6 ^{+1.1} _{-1.1}	4.8 ^{+0.7} _{-0.7}	69 ⁺¹⁶ ₋₁₆	1420	5.90 ^{+0.74} _{-0.74}	28.20 ^{+0.53} _{-0.53}	3.02E+37	5.70E+35
4489	58748.926471427	564.3 ^{+1.0} _{-1.0}	2.4 ^{+0.3} _{-0.3}	200 ⁺⁴⁶ ₋₄₆	1351	10.87 ^{+1.00} _{-1.00}	26.09 ^{+0.26} _{-0.26}	2.79E+37	2.78E+35
4490	58748.928173320	562.8 ^{+1.3} _{-1.3}	2.6 ^{+0.5} _{-0.5}	129 ⁺³⁹ ₋₃₉	1251	7.55 ^{+0.06} _{-0.06}	19.64 ^{+0.03} _{-0.03}	2.22E+37	3.36E+34
4491	58748.928235789	563.0 ^{+0.1} _{-0.1}	3.1 ^{+0.1} _{-0.1}	493 ⁺³ ₋₃	1252	134.22 ^{+1.34} _{-1.34}	416.08 ^{+0.08} _{-0.08}	4.45E+38	8.61E+34
4492	58748.928309525	562.3 ^{+1.3} _{-1.3}	4.9 ^{+1.6} _{-1.6}	130 ⁺⁶⁸ ₋₆₈	1359	5.85 ^{+0.04} _{-0.04}	28.79 ^{+0.07} _{-0.07}	3.25E+37	7.87E+34
4493	58748.928372437	562.9 ^{+1.4} _{-1.4}	14.5 ^{+3.6} _{-3.6}	70 ⁺⁸ ₋₈	1138	5.34 ^{+0.04} _{-0.04}	77.46 ^{+0.14} _{-0.14}	8.75E+37	1.60E+35
4494	58748.928372918	563.0 ^{+0.5} _{-0.5}	6.0 ^{+1.4} _{-1.4}	127 ⁺¹⁹ ₋₁₉	1127	6.11 ^{+0.04} _{-0.04}	36.55 ^{+0.06} _{-0.06}	4.13E+37	7.09E+34
4495	58748.928960098	563.0 ^{+1.2} _{-1.2}	2.5 ^{+0.4} _{-0.4}	110 ⁺³³ ₋₃₃	1390	8.27 ^{+1.02} _{-1.02}	20.43 ^{+0.37} _{-0.37}	2.19E+37	3.93E+35
4496	58748.929168260	564.4 ^{+0.9} _{-0.9}	3.2 ^{+0.5} _{-0.5}	95 ⁺¹² ₋₁₂	1415	2.57 ^{+0.02} _{-0.02}	8.21 ^{+0.07} _{-0.07}	8.79E+36	7.44E+34
4497	58748.929461394	564.0 ^{+1.3} _{-1.3}	4.2 ^{+0.3} _{-0.3}	229 ⁺¹⁹ ₋₁₉	1350	16.31 ^{+0.84} _{-0.84}	68.83 ^{+0.22} _{-0.22}	7.37E+37	2.34E+35
4498	58748.929757737	564.6 ^{+0.6} _{-0.6}	4.0 ^{+0.2} _{-0.2}	250 ⁺¹⁹ ₋₁₉	1362	23.88 ^{+1.13} _{-1.13}	94.33 ^{+0.26} _{-0.26}	1.01E+38	2.78E+35
4499	58748.929757773	564.6 ^{+0.6} _{-0.6}	16.4 ^{+1.8} _{-1.8}	104 ⁺⁵⁶ ₋₅₆	1277	9.67 ^{+0.89} _{-0.89}	158.78 ^{+1.56} _{-1.56}	1.70E+38	1.67E+36
4500	58748.929951506	563.8 ^{+1.1} _{-1.1}	5.7 ^{+3.0} _{-3.0}	116 ⁺⁹ ₋₉	1069	2.94 ^{+0.02} _{-0.02}	16.78 ^{+0.07} _{-0.07}	1.90E+37	7.38E+34
4501	58748.929969382	563.5 ^{+1.2} _{-1.2}	2.1 ^{+0.6} _{-0.6}	159 ⁺⁴⁰ ₋₄₀	1293	9.14 ^{+0.07} _{-0.07}	19.10 ^{+0.04} _{-0.04}	2.16E+37	4.22E+34
4502	58748.930294653	564.4 ^{+1.2} _{-1.2}	4.9 ^{+0.6} _{-0.6}	108 ⁺²⁴ ₋₂₄	1296	8.43 ^{+0.79} _{-0.79}	41.14 ^{+0.43} _{-0.43}	4.40E+37	4.65E+35
4503	58748.930530343	562.6 ^{+1.1} _{-1.1}	11.3 ^{+8.4} _{-8.4}	110 ⁺⁶ ₋₆	1373	3.03 ^{+0.02} _{-0.02}	34.35 ^{+0.18} _{-0.18}	3.88E+37	2.08E+35
4504	58748.930714404	562.8 ^{+1.2} _{-1.2}	17.6 ^{+3.6} _{-3.6}	88 ⁺¹¹ ₋₁₁	1374	4.43 ^{+0.63} _{-0.63}	77.75 ^{+2.27} _{-2.27}	8.32E+37	2.43E+36
4505	58748.930714477	563.4 ^{+1.3} _{-1.3}	4.0 ^{+1.4} _{-1.4}	127 ⁺⁹⁰ ₋₉₀	1225	7.35 ^{+0.05} _{-0.05}	29.50 ^{+0.08} _{-0.08}	3.33E+37	8.74E+34
4506	58748.930754543	564.0 ^{+1.0} _{-1.0}	9.8 ^{+1.4} _{-1.4}	95 ⁺⁶ ₋₆	1181	5.18 ^{+0.57} _{-0.57}	50.56 ^{+0.79} _{-0.79}	5.41E+37	8.48E+35
4507	58748.931425912	565.3 ^{+0.8} _{-0.8}	3.6 ^{+1.0} _{-1.0}	211 ⁺³² ₋₃₂	1257	9.01 ^{+0.07} _{-0.07}	32.53 ^{+0.06} _{-0.06}	3.68E+37	7.10E+34
4508	58748.931791392	563.0 ^{+1.2} _{-1.2}	16.2 ^{+3.2} _{-3.2}	87 ⁺⁴⁹ ₋₄₉	1361	4.13 ^{+0.56} _{-0.56}	67.07 ^{+1.82} _{-1.82}	7.18E+37	1.95E+36
4509	58748.931828999	563.8 ^{+1.1} _{-1.1}	3.3 ^{+0.8} _{-0.8}	157 ⁺²⁸ ₋₂₈	1215	8.77 ^{+0.06} _{-0.06}	28.64 ^{+0.05} _{-0.05}	3.24E+37	5.55E+34
4510	58748.932289008	565.0 ^{+0.8} _{-0.8}	3.5 ^{+0.3} _{-0.3}	139 ⁺⁵⁷ ₋₅₇	1345	13.12 ^{+0.90} _{-0.90}	46.05 ^{+0.26} _{-0.26}	4.93E+37	2.79E+35
4511	58748.932289037	565.0 ^{+0.8} _{-0.8}	1.3 ^{+0.4} _{-0.4}	185 ⁺⁵⁸ ₋₅₈	1306	4.09 ^{+0.67} _{-0.67}	5.48 ^{+0.26} _{-0.26}	5.87E+36	2.80E+35
4512	58748.933199744	563.7 ^{+1.4} _{-1.4}	2.7 ^{+0.6} _{-0.6}	101 ⁺²⁶ ₋₂₆	1425	8.64 ^{+0.06} _{-0.06}	23.14 ^{+0.04} _{-0.04}	2.62E+37	4.16E+34
4513	58748.933525957	564.1 ^{+0.3} _{-0.3}	1.9 ^{+0.6} _{-0.6}	43 ⁺⁸ ₋₈	1440	6.96 ^{+0.05} _{-0.05}	13.37 ^{+0.03} _{-0.03}	1.51E+37	3.23E+34
4514	58748.933526375	563.1 ^{+1.1} _{-1.1}	3.2 ^{+1.3} _{-1.3}	151 ⁺⁶ ₋₆	1379	7.68 ^{+0.06} _{-0.06}	24.56 ^{+0.07} _{-0.07}	2.78E+37	8.04E+34
4515	58748.933526482	563.6 ^{+1.3} _{-1.3}	3.8 ^{+0.6} _{-0.6}	200 ⁺³⁵ ₋₃₅	1390	12.18 ^{+0.97} _{-0.97}	45.92 ^{+0.54} _{-0.54}	4.92E+37	5.81E+35
4516	58748.933681058	562.3 ^{+1.4} _{-1.4}	5.4 ^{+1.6} _{-1.6}	128 ⁺²² ₋₂₂	1413	7.27 ^{+0.05} _{-0.05}	39.16 ^{+0.09} _{-0.09}	4.42E+37	9.79E+34
4517	58748.934303715	564.4 ^{+1.0} _{-1.0}	4.2 ^{+0.7} _{-0.7}	278 ⁺²⁷ ₋₂₇	1315	10.23 ^{+0.08} _{-0.08}	43.39 ^{+0.05} _{-0.05}	4.90E+37	5.93E+34
4518	58748.934303908	564.0 ^{+0.9} _{-0.9}	8.0 ^{+2.7} _{-2.7}	120 ⁺⁴⁸ ₋₄₈	1379	4.55 ^{+0.03} _{-0.03}	36.43 ^{+0.09} _{-0.09}	4.11E+37	1.02E+35
4519	58748.934586191	562.8 ^{+1.3} _{-1.3}	6.3 ^{+1.4} _{-1.4}	158 ⁺⁴² ₋₄₂	1378	7.89 ^{+0.06} _{-0.06}	49.48 ^{+0.08} _{-0.08}	5.59E+37	9.48E+34
4520	58748.934896252	563.9 ^{+0.9} _{-0.9}	3.4 ^{+0.6} _{-0.6}	64 ⁺¹⁹ ₋₁₉	1351	9.66 ^{+0.07} _{-0.07}	33.01 ^{+0.04} _{-0.04}	3.73E+37	4.83E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4521	58748.935481118	564.1 ^{+1.1} _{-1.1}	2.3 ^{+0.3} _{-0.3}	209 ⁺³⁶ ₋₃₆	1350	10.34 ^{+0.08} _{-0.08}	23.55 ^{+0.03} _{-0.03}	2.66E+37	2.94E+34
4522	58748.936489595	564.5 ^{+0.9} _{-0.9}	5.0 ^{+0.6} _{-0.6}	251 ⁺⁴² ₋₄₂	1296	7.93 ^{+0.77} _{-0.77}	39.49 ^{+0.45} _{-0.45}	4.23E+37	4.78E+35
4523	58748.937104274	565.4 ^{+0.4} _{-0.4}	2.5 ^{+0.4} _{-0.4}	153 ⁺³⁶ ₋₃₆	1369	19.26 ^{+0.14} _{-0.14}	47.93 ^{+0.40} _{-0.40}	5.13E+37	4.30E+35
4524	58748.937367867	563.0 ^{+1.2} _{-1.2}	7.9 ^{+3.3} _{-3.3}	52 ⁺³ ₋₃	1129	3.94 ^{+0.03} _{-0.03}	31.02 ^{+0.10} _{-0.10}	3.50E+37	1.08E+35
4525	58748.937580476	563.6 ^{+1.4} _{-1.4}	4.5 ^{+0.6} _{-0.6}	97 ⁺³⁸ ₋₃₈	1134	6.24 ^{+0.05} _{-0.05}	27.87 ^{+0.24} _{-0.24}	2.98E+37	2.52E+35
4526	58748.937935192	563.6 ^{+1.4} _{-1.4}	5.9 ^{+1.2} _{-1.2}	179 ⁺³⁴ ₋₃₄	1297	8.21 ^{+0.06} _{-0.06}	48.55 ^{+0.07} _{-0.07}	5.49E+37	8.46E+34
4527	58748.938436840	563.6 ^{+0.1} _{-0.1}	2.4 ^{+0.3} _{-0.3}	251 ⁺¹⁰ ₋₁₀	1374	47.83 ^{+0.35} _{-0.35}	114.68 ^{+0.97} _{-0.97}	1.23E+38	1.04E+36
4528	58748.938671993	563.7 ^{+1.3} _{-1.3}	3.9 ^{+0.6} _{-0.6}	124 ⁺²⁴ ₋₂₄	1393	9.39 ^{+0.07} _{-0.07}	36.22 ^{+0.04} _{-0.04}	4.09E+37	4.98E+34
4529	58748.938850904	563.2 ^{+1.4} _{-1.4}	5.1 ^{+1.4} _{-1.4}	61 ⁺²⁸ ₋₂₈	1401	5.48 ^{+0.04} _{-0.04}	28.05 ^{+0.06} _{-0.06}	3.17E+37	6.59E+34
4530	58748.938969227	563.1 ^{+0.3} _{-0.3}	2.2 ^{+0.2} _{-0.2}	128 ⁺³⁹ ₋₃₉	1321	14.73 ^{+0.11} _{-0.11}	32.05 ^{+0.03} _{-0.03}	3.62E+37	2.87E+34
4531	58748.940032706	563.8 ^{+1.2} _{-1.2}	5.9 ^{+0.9} _{-0.9}	138 ⁺⁴⁴ ₋₄₄	1103	6.58 ^{+0.05} _{-0.05}	38.94 ^{+0.33} _{-0.33}	4.17E+37	3.55E+35
4532	58748.940253968	562.4 ^{+0.9} _{-0.9}	6.4 ^{+1.8} _{-1.8}	126 ⁺³⁰ ₋₃₀	1392	6.21 ^{+0.05} _{-0.05}	39.65 ^{+0.09} _{-0.09}	4.48E+37	9.72E+34
4533	58748.940637911	563.7 ^{+1.3} _{-1.3}	4.9 ^{+1.0} _{-1.0}	100 ⁺⁷⁵ ₋₇₅	1279	6.99 ^{+0.05} _{-0.05}	34.35 ^{+0.05} _{-0.05}	3.88E+37	6.10E+34
4534	58748.940679380	563.7 ^{+0.6} _{-0.6}	2.1 ^{+0.3} _{-0.3}	108 ⁺³³ ₋₃₃	1402	12.81 ^{+0.10} _{-0.10}	27.12 ^{+0.02} _{-0.02}	3.06E+37	2.73E+34
4535	58748.940680402	563.4 ^{+0.9} _{-0.9}	8.6 ^{+1.5} _{-1.5}	133 ⁺²⁶ ₋₂₆	1266	8.75 ^{+0.07} _{-0.07}	75.43 ^{+0.10} _{-0.10}	8.52E+37	1.14E+35
4536	58748.942416716	563.7 ^{+1.2} _{-1.2}	5.1 ^{+1.3} _{-1.3}	92 ⁺³ ₋₃	1097	7.54 ^{+0.06} _{-0.06}	38.66 ^{+0.08} _{-0.08}	4.37E+37	8.65E+34
4537	58748.942608143	563.3 ^{+1.3} _{-1.3}	3.0 ^{+1.2} _{-1.2}	55 ⁺⁴ ₋₄	1423	4.05 ^{+0.03} _{-0.03}	12.06 ^{+0.04} _{-0.04}	1.36E+37	4.16E+34
4538	58748.943980182	563.6 ^{+1.1} _{-1.1}	6.2 ^{+1.5} _{-1.5}	80 ⁺²⁴ ₋₂₄	1159	8.58 ^{+0.07} _{-0.07}	52.79 ^{+0.10} _{-0.10}	5.97E+37	1.11E+35
4539	58748.944538390	564.9 ^{+0.7} _{-0.7}	9.7 ^{+1.4} _{-1.4}	243 ⁺⁵² ₋₅₂	1162	8.91 ^{+0.07} _{-0.07}	86.02 ^{+0.75} _{-0.75}	9.21E+37	8.04E+35
4540	58748.944616478	563.2 ^{+0.0} _{-0.0}	4.4 ^{+0.0} _{-0.0}	493 ⁺³ ₋₃	1252	510.48 ^{+3.92} _{-3.92}	2261.44 ^{+0.07} _{-0.07}	2.56E+39	7.53E+34
4541	58748.945442220	564.7 ^{+0.8} _{-0.8}	4.4 ^{+0.6} _{-0.6}	209 ⁺¹¹ ₋₁₁	1287	17.05 ^{+0.13} _{-0.13}	75.67 ^{+0.66} _{-0.66}	8.10E+37	7.06E+35
4542	58748.945504173	564.2 ^{+0.1} _{-0.1}	5.3 ^{+0.8} _{-0.8}	486 ⁺⁶ ₋₆	1253	39.24 ^{+0.30} _{-0.30}	208.65 ^{+1.83} _{-1.83}	2.23E+38	1.95E+36
4543	58748.945741407	563.4 ^{+1.5} _{-1.5}	6.1 ^{+1.8} _{-1.8}	101 ⁺³⁵ ₋₃₅	1413	7.73 ^{+0.06} _{-0.06}	47.27 ^{+0.11} _{-0.11}	5.34E+37	1.21E+35
4544	58748.946049581	563.9 ^{+1.0} _{-1.0}	9.6 ^{+1.4} _{-1.4}	86 ⁺¹² ₋₁₂	1073	8.10 ^{+0.06} _{-0.06}	77.39 ^{+0.68} _{-0.68}	8.28E+37	7.25E+35
4545	58748.946236175	563.6 ^{+0.8} _{-0.8}	5.5 ^{+0.8} _{-0.8}	105 ⁺²⁰ ₋₂₀	1078	3.79 ^{+0.03} _{-0.03}	20.96 ^{+0.18} _{-0.18}	2.24E+37	1.96E+35
4546	58748.946365556	562.9 ^{+1.3} _{-1.3}	5.2 ^{+1.1} _{-1.1}	82 ⁺²⁸ ₋₂₈	1404	6.78 ^{+0.05} _{-0.05}	35.41 ^{+0.06} _{-0.06}	4.00E+37	6.62E+34
4547	58748.947095278	563.6 ^{+1.2} _{-1.2}	1.6 ^{+0.3} _{-0.3}	130 ⁺²¹ ₋₂₁	1412	11.47 ^{+0.09} _{-0.09}	18.24 ^{+0.03} _{-0.03}	2.06E+37	3.47E+34
4548	58748.947303258	564.6 ^{+0.5} _{-0.5}	4.8 ^{+0.7} _{-0.7}	141 ⁺³³ ₋₃₃	1394	12.90 ^{+0.10} _{-0.10}	62.37 ^{+0.07} _{-0.07}	7.05E+37	8.35E+34
4549	58748.947514445	564.3 ^{+1.4} _{-1.4}	4.7 ^{+0.7} _{-0.7}	133 ⁺¹³ ₋₁₃	1396	10.62 ^{+0.08} _{-0.08}	49.77 ^{+0.44} _{-0.44}	5.33E+37	4.71E+35
4550	58748.947552181	563.9 ^{+0.3} _{-0.3}	8.6 ^{+1.2} _{-1.2}	330 ⁺¹⁷ ₋₁₇	1222	31.89 ^{+0.25} _{-0.25}	275.26 ^{+2.45} _{-2.45}	2.95E+38	2.62E+36
4551	58748.947708807	563.1 ^{+1.3} _{-1.3}	4.0 ^{+1.1} _{-1.1}	105 ⁺⁴² ₋₄₂	1406	7.54 ^{+0.06} _{-0.06}	30.50 ^{+0.07} _{-0.07}	3.45E+37	7.53E+34
4552	58748.947962085	564.9 ^{+1.0} _{-1.0}	4.8 ^{+0.7} _{-0.7}	215 ⁺⁵¹ ₋₅₁	1348	10.07 ^{+0.08} _{-0.08}	48.38 ^{+0.43} _{-0.43}	5.18E+37	4.65E+35
4553	58748.948159927	563.3 ^{+1.3} _{-1.3}	7.4 ^{+2.4} _{-2.4}	90 ⁺³⁷ ₋₃₇	1342	6.28 ^{+0.05} _{-0.05}	46.55 ^{+0.12} _{-0.12}	5.26E+37	1.31E+35
4554	58748.948257090	564.2 ^{+0.9} _{-0.9}	4.6 ^{+1.7} _{-1.7}	71 ⁺¹⁸ ₋₁₈	1348	5.37 ^{+0.04} _{-0.04}	24.79 ^{+0.07} _{-0.07}	2.80E+37	7.85E+34
4555	58748.948477912	564.0 ^{+0.9} _{-0.9}	7.3 ^{+1.0} _{-1.0}	109 ⁺¹⁷ ₋₁₇	1422	10.90 ^{+0.09} _{-0.09}	79.27 ^{+0.71} _{-0.71}	8.49E+37	7.57E+35
4556	58748.949305887	565.7 ^{+0.4} _{-0.4}	4.1 ^{+0.6} _{-0.6}	294 ⁺²⁷ ₋₂₇	1310	10.44 ^{+0.08} _{-0.08}	42.81 ^{+0.38} _{-0.38}	4.58E+37	4.12E+35
4557	58748.949510485	563.3 ^{+1.4} _{-1.4}	3.1 ^{+0.5} _{-0.5}	123 ⁺⁴⁷ ₋₄₇	1212	8.15 ^{+0.06} _{-0.06}	25.61 ^{+0.23} _{-0.23}	2.74E+37	2.46E+35
4558	58748.949692196	565.0 ^{+0.9} _{-0.9}	8.2 ^{+1.2} _{-1.2}	99 ⁺⁴¹ ₋₄₁	1155	12.98 ^{+0.10} _{-0.10}	105.90 ^{+0.12} _{-0.12}	1.20E+38	1.40E+35
4559	58748.950883397	564.8 ^{+0.6} _{-0.6}	3.8 ^{+1.4} _{-1.4}	134 ⁺⁴⁷ ₋₄₇	1253	5.71 ^{+0.05} _{-0.05}	21.56 ^{+0.07} _{-0.07}	2.44E+37	7.39E+34
4560	58749.855540300	562.2 ^{+1.1} _{-1.1}	4.0 ^{+0.8} _{-0.8}	73 ⁺⁸⁹ ₋₈₉	1352	5.62 ^{+0.07} _{-0.07}	22.31 ^{+0.06} _{-0.06}	2.52E+37	6.45E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4561	58749.856103853	564.8 ^{+0.8} _{-0.8}	4.0 ^{+0.7} _{-0.7}	78 ⁺⁷² ₋₇₂	1363	7.86 ^{+0.10} _{-0.10}	31.61 ^{+0.07} _{-0.07}	3.57E+37	7.76E+34
4562	58749.856608922	562.6 ^{+1.3} _{-1.3}	5.9 ^{+1.1} _{-1.1}	163 ⁺¹³¹ ₋₁₃₁	1342	6.95 ^{+0.08} _{-0.08}	41.08 ^{+0.09} _{-0.09}	4.64E+37	1.07E+35
4563	58749.856759896	566.3 ^{+0.5} _{-0.5}	3.0 ^{+0.4} _{-0.4}	225 ⁺¹¹ ₋₁₁	1385	11.51 ^{+1.46} _{-1.46}	34.65 ^{+0.66} _{-0.66}	3.71E+37	7.03E+35
4564	58749.856760005	566.4 ^{+0.5} _{-0.5}	3.8 ^{+0.2} _{-0.2}	225 ⁺¹¹ ₋₁₁	1385	32.49 ^{+0.40} _{-0.40}	122.61 ^{+0.08} _{-0.08}	1.39E+38	9.11E+34
4565	58749.857087876	563.8 ^{+1.1} _{-1.1}	4.2 ^{+0.5} _{-0.5}	104 ⁺¹⁸ ₋₁₈	1193	10.91 ^{+0.13} _{-0.13}	45.46 ^{+0.07} _{-0.07}	5.14E+37	8.03E+34
4566	58749.858890662	562.5 ^{+1.0} _{-1.0}	3.1 ^{+0.5} _{-0.5}	60 ⁺³⁴ ₋₃₄	1412	10.59 ^{+1.35} _{-1.35}	32.62 ^{+0.63} _{-0.63}	3.49E+37	6.79E+35
4567	58749.858891051	564.2 ^{+1.0} _{-1.0}	3.2 ^{+0.4} _{-0.4}	80 ⁺¹⁰ ₋₁₀	1414	11.95 ^{+1.32} _{-1.32}	37.64 ^{+0.54} _{-0.54}	4.03E+37	5.79E+35
4568	58749.859743063	563.8 ^{+1.1} _{-1.1}	6.4 ^{+0.6} _{-0.6}	149 ⁺²¹ ₋₂₁	1245	11.40 ^{+0.94} _{-0.94}	73.42 ^{+0.61} _{-0.61}	7.86E+37	6.54E+35
4569	58749.859743075	563.8 ^{+1.1} _{-1.1}	5.3 ^{+0.5} _{-0.5}	143 ⁺²² ₋₂₂	1239	7.56 ^{+0.90} _{-0.90}	40.22 ^{+0.46} _{-0.46}	4.31E+37	4.91E+35
4570	58749.859902986	563.6 ^{+1.2} _{-1.2}	9.4 ^{+2.2} _{-2.2}	95 ⁺⁴³ ₋₄₃	1353	7.78 ^{+0.09} _{-0.09}	72.94 ^{+0.21} _{-0.21}	8.24E+37	2.33E+35
4571	58749.860676597	563.8 ^{+1.2} _{-1.2}	3.2 ^{+0.3} _{-0.3}	138 ⁺³² ₋₃₂	1401	12.27 ^{+0.14} _{-0.14}	39.20 ^{+0.05} _{-0.05}	4.43E+37	5.11E+34
4572	58749.861165890	563.2 ^{+1.2} _{-1.2}	3.8 ^{+0.6} _{-0.6}	74 ⁺²³ ₋₂₃	1231	8.78 ^{+0.10} _{-0.10}	33.12 ^{+0.07} _{-0.07}	3.74E+37	7.43E+34
4573	58749.861268473	562.8 ^{+1.3} _{-1.3}	8.4 ^{+1.1} _{-1.1}	111 ⁺⁹ ₋₉	1432	7.01 ^{+0.74} _{-0.74}	58.53 ^{+0.82} _{-0.82}	6.27E+37	8.79E+35
4574	58749.862622516	564.4 ^{+0.8} _{-0.8}	2.5 ^{+0.6} _{-0.6}	93 ⁺⁹⁰ ₋₉₀	1380	10.65 ^{+0.12} _{-0.12}	26.53 ^{+0.08} _{-0.08}	3.00E+37	8.59E+34
4575	58749.862826104	564.2 ^{+1.1} _{-1.1}	4.7 ^{+0.6} _{-0.6}	72 ⁺¹⁹ ₋₁₉	1361	8.71 ^{+1.01} _{-1.01}	41.11 ^{+0.66} _{-0.66}	4.40E+37	7.03E+35
4576	58749.863021107	563.7 ^{+1.1} _{-1.1}	3.3 ^{+0.3} _{-0.3}	78 ⁺¹⁷ ₋₁₇	1340	13.13 ^{+1.12} _{-1.12}	42.80 ^{+0.37} _{-0.37}	4.58E+37	3.96E+35
4577	58749.863021165	563.7 ^{+1.1} _{-1.1}	3.1 ^{+0.4} _{-0.4}	142 ⁺⁴³ ₋₄₃	1301	16.93 ^{+1.20} _{-1.20}	52.82 ^{+0.49} _{-0.49}	5.65E+37	5.27E+35
4578	58749.863301799	564.2 ^{+0.4} _{-0.4}	3.4 ^{+0.2} _{-0.2}	264 ⁺³³ ₋₃₃	1144	18.43 ^{+1.10} _{-1.10}	62.85 ^{+0.26} _{-0.26}	6.73E+37	2.83E+35
4579	58749.863301856	564.2 ^{+0.4} _{-0.4}	3.2 ^{+0.6} _{-0.6}	163 ⁺¹⁷ ₋₁₇	1086	13.27 ^{+1.09} _{-1.09}	42.60 ^{+0.69} _{-0.69}	4.56E+37	7.35E+35
4580	58749.863844349	563.3 ^{+1.0} _{-1.0}	7.0 ^{+2.7} _{-2.7}	53 ⁺⁷ ₋₇	1420	6.93 ^{+0.08} _{-0.08}	48.66 ^{+0.21} _{-0.21}	5.50E+37	2.39E+35
4581	58749.864118583	565.0 ^{+0.7} _{-0.7}	3.4 ^{+0.3} _{-0.3}	134 ⁺²⁵ ₋₂₅	1368	13.51 ^{+1.12} _{-1.12}	46.61 ^{+0.38} _{-0.38}	4.99E+37	4.08E+35
4582	58749.864119620	563.1 ^{+0.9} _{-0.9}	6.0 ^{+0.7} _{-0.7}	374 ⁺²³ ₋₂₃	1258	12.63 ^{+0.88} _{-0.88}	76.29 ^{+0.64} _{-0.64}	8.17E+37	6.88E+35
4583	58749.864119671	563.1 ^{+0.9} _{-0.9}	1.7 ^{+0.4} _{-0.4}	253 ⁺⁶ ₋₆	1270	9.49 ^{+1.88} _{-1.88}	15.94 ^{+0.77} _{-0.77}	1.71E+37	8.25E+35
4584	58749.864120476	565.2 ^{+1.1} _{-1.1}	3.4 ^{+0.4} _{-0.4}	124 ⁺¹⁵ ₋₁₅	1409	13.90 ^{+1.14} _{-1.14}	47.40 ^{+0.46} _{-0.46}	5.07E+37	4.88E+35
4585	58749.864227353	565.4 ^{+0.8} _{-0.8}	2.4 ^{+0.3} _{-0.3}	77 ⁺⁵¹ ₋₅₁	1309	12.65 ^{+0.14} _{-0.14}	30.65 ^{+0.05} _{-0.05}	3.46E+37	5.60E+34
4586	58749.865169337	562.9 ^{+1.2} _{-1.2}	2.5 ^{+0.3} _{-0.3}	123 ⁺⁴⁹ ₋₄₉	1371	15.15 ^{+1.41} _{-1.41}	38.33 ^{+0.39} _{-0.39}	4.10E+37	4.23E+35
4587	58749.865632742	562.3 ^{+1.1} _{-1.1}	7.1 ^{+1.3} _{-1.3}	83 ⁺⁴² ₋₄₂	1350	6.49 ^{+0.07} _{-0.07}	46.19 ^{+0.10} _{-0.10}	5.22E+37	1.11E+35
4588	58749.866055221	563.4 ^{+0.9} _{-0.9}	3.1 ^{+0.9} _{-0.9}	63 ⁺²⁹ ₋₂₉	1378	6.34 ^{+0.07} _{-0.07}	19.61 ^{+0.06} _{-0.06}	2.22E+37	7.16E+34
4589	58749.866353875	564.2 ^{+0.7} _{-0.7}	6.2 ^{+0.8} _{-0.8}	112 ⁺³³ ₋₃₃	1301	7.84 ^{+0.79} _{-0.79}	49.00 ^{+0.61} _{-0.61}	5.25E+37	6.51E+35
4590	58749.866424075	563.0 ^{+1.4} _{-1.4}	6.4 ^{+1.9} _{-1.9}	56 ⁺⁷ ₋₇	1412	6.38 ^{+0.07} _{-0.07}	40.90 ^{+0.13} _{-0.13}	4.62E+37	1.52E+35
4591	58749.866600184	565.2 ^{+0.8} _{-0.8}	3.1 ^{+0.7} _{-0.7}	161 ⁺²⁰ ₋₂₀	1111	6.83 ^{+1.09} _{-1.09}	20.97 ^{+0.78} _{-0.78}	2.24E+37	8.40E+35
4592	58749.867000294	562.9 ^{+1.5} _{-1.5}	4.1 ^{+0.9} _{-0.9}	75 ⁺²⁷ ₋₂₇	1408	7.05 ^{+0.08} _{-0.08}	28.64 ^{+0.07} _{-0.07}	3.24E+37	7.63E+34
4593	58749.867432093	562.5 ^{+1.1} _{-1.1}	4.4 ^{+1.5} _{-1.5}	152 ⁺¹⁹ ₋₁₉	1236	5.28 ^{+0.06} _{-0.06}	23.37 ^{+0.09} _{-0.09}	2.64E+37	1.01E+35
4594	58749.867937444	562.7 ^{+1.0} _{-1.0}	3.8 ^{+1.4} _{-1.4}	73 ⁺⁴ ₋₄	1341	4.70 ^{+0.05} _{-0.05}	17.94 ^{+0.07} _{-0.07}	2.03E+37	8.03E+34
4595	58749.868097662	562.8 ^{+1.4} _{-1.4}	4.4 ^{+1.1} _{-1.1}	58 ⁺²⁵ ₋₂₅	1345	6.60 ^{+0.07} _{-0.07}	28.77 ^{+0.08} _{-0.08}	3.25E+37	9.23E+34
4596	58749.868141899	563.9 ^{+1.2} _{-1.2}	6.2 ^{+0.7} _{-0.7}	138 ⁺⁶³ ₋₆₃	1364	8.09 ^{+0.78} _{-0.78}	50.16 ^{+0.57} _{-0.57}	5.37E+37	6.10E+35
4597	58749.868392186	563.4 ^{+1.2} _{-1.2}	3.5 ^{+1.7} _{-1.7}	345 ⁺⁶⁷ ₋₆₇	1281	5.32 ^{+0.06} _{-0.06}	18.80 ^{+0.10} _{-0.10}	2.12E+37	1.15E+35
4598	58749.868392461	563.1 ^{+1.2} _{-1.2}	1.8 ^{+0.3} _{-0.3}	89 ⁺¹⁵ ₋₁₅	1273	11.99 ^{+1.52} _{-1.52}	21.46 ^{+0.40} _{-0.40}	2.30E+37	4.23E+35
4599	58749.868392637	562.6 ^{+1.0} _{-1.0}	3.1 ^{+1.1} _{-1.1}	335 ⁺⁶⁷ ₋₆₇	1260	5.68 ^{+0.06} _{-0.06}	17.82 ^{+0.07} _{-0.07}	2.01E+37	8.03E+34
4600	58749.868393233	564.2 ^{+0.7} _{-0.7}	5.0 ^{+0.4} _{-0.4}	152 ⁺¹⁶ ₋₁₆	1233	12.50 ^{+0.89} _{-0.89}	63.13 ^{+0.39} _{-0.39}	6.76E+37	4.19E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4601	58749.868393353	564.2 ^{+0.8} _{-0.8}	2.1 ^{+0.8} _{-0.8}	141 ⁺¹³⁰ ₋₁₃₀	1120	4.07 ^{+1.36} _{-1.36}	8.55 ^{+1.13} _{-1.13}	9.15E+36	1.21E+36
4602	58749.868701408	563.0 ^{+1.4} _{-1.4}	4.8 ^{+1.0} _{-1.0}	135 ⁺²² ₋₂₂	1353	11.02 ^{+0.12} _{-0.12}	52.85 ^{+0.12} _{-0.12}	5.97E+37	1.32E+35
4603	58749.868785968	562.7 ^{+1.2} _{-1.2}	4.3 ^{+0.4} _{-0.4}	130 ⁺²⁷ ₋₂₇	1416	14.06 ^{+1.02} _{-1.02}	60.88 ^{+0.39} _{-0.39}	6.52E+37	4.15E+35
4604	58749.870190993	562.9 ^{+1.2} _{-1.2}	5.8 ^{+1.3} _{-1.3}	150 ⁺³³ ₋₃₃	1234	8.44 ^{+0.09} _{-0.09}	49.20 ^{+0.12} _{-0.12}	5.56E+37	1.40E+35
4605	58749.870876538	562.6 ^{+1.2} _{-1.2}	3.7 ^{+0.6} _{-0.6}	91 ⁺²² ₋₂₂	1367	8.94 ^{+0.10} _{-0.10}	33.25 ^{+0.06} _{-0.06}	3.76E+37	6.34E+34
4606	58749.871056433	563.6 ^{+1.1} _{-1.1}	2.2 ^{+0.3} _{-0.3}	151 ⁺⁸ ₋₈	1340	9.28 ^{+0.10} _{-0.10}	20.34 ^{+0.03} _{-0.03}	2.30E+37	3.65E+34
4607	58749.871211987	565.7 ^{+0.2} _{-0.2}	4.2 ^{+0.1} _{-0.1}	288 ⁺⁷⁵ ₋₇₅	1349	43.79 ^{+1.17} _{-1.17}	183.04 ^{+0.15} _{-0.15}	1.96E+38	1.63E+35
4608	58749.871212024	565.7 ^{+0.2} _{-0.2}	3.2 ^{+0.2} _{-0.2}	441 ⁺²⁵ ₋₂₅	1233	44.01 ^{+1.31} _{-1.31}	140.83 ^{+0.28} _{-0.28}	1.51E+38	2.94E+35
4609	58749.871896113	563.1 ^{+1.3} _{-1.3}	8.4 ^{+0.5} _{-0.5}	231 ⁺²⁰ ₋₂₀	1353	17.06 ^{+0.84} _{-0.84}	143.82 ^{+0.44} _{-0.44}	1.54E+38	4.68E+35
4610	58749.871896180	563.1 ^{+1.3} _{-1.3}	8.9 ^{+0.6} _{-0.6}	135 ⁺⁸² ₋₈₂	1340	17.07 ^{+0.91} _{-0.91}	152.09 ^{+0.53} _{-0.53}	1.63E+38	5.65E+35
4611	58749.871928196	563.1 ^{+1.4} _{-1.4}	3.3 ^{+0.6} _{-0.6}	54 ⁺³⁰ ₋₃₀	1372	8.85 ^{+0.10} _{-0.10}	28.95 ^{+0.06} _{-0.06}	3.27E+37	6.66E+34
4612	58749.871949462	562.8 ^{+1.2} _{-1.2}	4.3 ^{+1.2} _{-1.2}	107 ⁺³³ ₋₃₃	1181	7.12 ^{+0.08} _{-0.08}	30.44 ^{+0.09} _{-0.09}	3.44E+37	1.01E+35
4613	58749.871949724	562.5 ^{+1.4} _{-1.4}	2.7 ^{+1.1} _{-1.1}	58 ⁺²⁸ ₋₂₈	1072	3.67 ^{+0.04} _{-0.04}	9.75 ^{+0.04} _{-0.04}	1.10E+37	5.08E+34
4614	58749.872243202	564.1 ^{+0.4} _{-0.4}	2.3 ^{+0.2} _{-0.2}	221 ⁺⁴⁶ ₋₄₆	1322	17.63 ^{+0.19} _{-0.19}	41.06 ^{+0.04} _{-0.04}	4.64E+37	4.42E+34
4615	58749.873310934	563.7 ^{+1.2} _{-1.2}	3.2 ^{+0.3} _{-0.3}	127 ⁺³⁵ ₋₃₅	1345	16.54 ^{+1.20} _{-1.20}	52.27 ^{+0.32} _{-0.32}	5.60E+37	3.47E+35
4616	58749.873743348	563.1 ^{+1.1} _{-1.1}	3.4 ^{+0.6} _{-0.6}	53 ⁺²⁴ ₋₂₄	1414	8.64 ^{+1.21} _{-1.21}	29.12 ^{+0.68} _{-0.68}	3.12E+37	7.25E+35
4617	58749.875524489	563.1 ^{+1.3} _{-1.3}	3.3 ^{+0.7} _{-0.7}	63 ⁺²⁹ ₋₂₉	1156	8.81 ^{+0.09} _{-0.09}	29.28 ^{+0.06} _{-0.06}	3.31E+37	7.23E+34
4618	58749.876025019	563.0 ^{+0.6} _{-0.6}	5.2 ^{+0.3} _{-0.3}	348 ⁺²⁷ ₋₂₇	1187	19.81 ^{+0.95} _{-0.95}	103.41 ^{+0.28} _{-0.28}	1.11E+38	3.05E+35
4619	58749.876095612	563.6 ^{+1.3} _{-1.3}	3.2 ^{+0.8} _{-0.8}	55 ⁺³³ ₋₃₃	1364	7.49 ^{+0.08} _{-0.08}	23.67 ^{+0.06} _{-0.06}	2.67E+37	7.26E+34
4620	58749.876128491	563.0 ^{+1.5} _{-1.5}	3.3 ^{+0.9} _{-0.9}	73 ⁺²⁵ ₋₂₅	1371	5.65 ^{+0.06} _{-0.06}	18.63 ^{+0.05} _{-0.05}	2.11E+37	6.12E+34
4621	58749.876392959	565.2 ^{+0.9} _{-0.9}	2.3 ^{+0.2} _{-0.2}	189 ⁺²⁶ ₋₂₆	1330	20.17 ^{+1.49} _{-1.49}	46.79 ^{+0.34} _{-0.34}	5.01E+37	3.67E+35
4622	58749.876393009	565.2 ^{+0.9} _{-0.9}	3.5 ^{+0.4} _{-0.4}	280 ⁺²⁶ ₋₂₆	1262	15.68 ^{+1.26} _{-1.26}	54.41 ^{+0.49} _{-0.49}	5.82E+37	5.26E+35
4623	58749.877379309	563.1 ^{+1.1} _{-1.1}	2.5 ^{+0.4} _{-0.4}	140 ⁺²² ₋₂₂	1098	10.09 ^{+0.10} _{-0.10}	25.12 ^{+0.04} _{-0.04}	2.84E+37	4.31E+34
4624	58749.877588940	562.3 ^{+1.1} _{-1.1}	5.7 ^{+1.1} _{-1.1}	93 ⁺³⁰ ₋₃₀	1400	8.07 ^{+0.08} _{-0.08}	45.68 ^{+0.09} _{-0.09}	5.16E+37	1.01E+35
4625	58749.877685274	563.5 ^{+0.7} _{-0.7}	7.1 ^{+0.8} _{-0.8}	115 ⁺⁴⁴ ₋₄₄	1364	8.60 ^{+0.84} _{-0.84}	60.80 ^{+0.71} _{-0.71}	6.51E+37	7.64E+35
4626	58749.878102614	563.3 ^{+1.1} _{-1.1}	5.7 ^{+1.0} _{-1.0}	195 ⁺²⁴ ₋₂₄	1171	6.59 ^{+0.98} _{-0.98}	37.30 ^{+1.00} _{-1.00}	3.99E+37	1.07E+36
4627	58749.878102854	562.8 ^{+1.1} _{-1.1}	6.3 ^{+2.6} _{-2.6}	102 ⁺⁷ ₋₇	1193	4.68 ^{+0.05} _{-0.05}	29.53 ^{+0.12} _{-0.12}	3.34E+37	1.41E+35
4628	58749.878103566	563.4 ^{+1.2} _{-1.2}	5.3 ^{+0.7} _{-0.7}	154 ⁺³⁶ ₋₃₆	1175	8.16 ^{+0.91} _{-0.91}	43.00 ^{+0.65} _{-0.65}	4.60E+37	6.92E+35
4629	58749.878348089	561.5 ^{+1.0} _{-1.0}	5.5 ^{+0.6} _{-0.6}	125 ⁺⁴³ ₋₄₃	1417	11.33 ^{+1.01} _{-1.01}	61.98 ^{+0.60} _{-0.60}	6.63E+37	6.38E+35
4630	58749.878472379	563.2 ^{+0.9} _{-0.9}	4.0 ^{+0.9} _{-0.9}	54 ⁺¹⁷ ₋₁₇	1386	7.25 ^{+0.07} _{-0.07}	29.31 ^{+0.07} _{-0.07}	3.31E+37	7.88E+34
4631	58749.879135414	562.5 ^{+1.1} _{-1.1}	5.4 ^{+1.2} _{-1.2}	148 ⁺¹⁵⁴ ₋₁₅₄	1340	6.13 ^{+0.06} _{-0.06}	33.07 ^{+0.07} _{-0.07}	3.74E+37	8.39E+34
4632	58749.880025391	563.7 ^{+1.4} _{-1.4}	6.6 ^{+1.2} _{-1.2}	104 ⁺²⁰ ₋₂₀	1195	8.74 ^{+0.09} _{-0.09}	58.07 ^{+0.11} _{-0.11}	6.56E+37	1.23E+35
4633	58749.880814071	563.5 ^{+1.2} _{-1.2}	4.0 ^{+0.5} _{-0.5}	106 ⁺⁵⁰ ₋₅₀	1260	8.77 ^{+0.09} _{-0.09}	35.26 ^{+0.04} _{-0.04}	3.98E+37	5.06E+34
4634	58749.880834123	562.6 ^{+1.0} _{-1.0}	6.4 ^{+1.0} _{-1.0}	145 ⁺³⁶ ₋₃₆	1208	7.16 ^{+0.87} _{-0.87}	46.04 ^{+0.84} _{-0.84}	4.93E+37	8.94E+35
4635	58749.881380421	564.4 ^{+1.0} _{-1.0}	6.3 ^{+0.6} _{-0.6}	196 ⁺²⁴ ₋₂₄	1231	11.18 ^{+0.88} _{-0.88}	70.21 ^{+0.54} _{-0.54}	7.52E+37	5.75E+35
4636	58749.882035365	561.7 ^{+1.0} _{-1.0}	5.1 ^{+0.7} _{-0.7}	103 ⁺³² ₋₃₂	1372	7.53 ^{+0.07} _{-0.07}	38.25 ^{+0.05} _{-0.05}	4.32E+37	5.57E+34
4637	58749.883022125	564.7 ^{+0.8} _{-0.8}	3.5 ^{+0.3} _{-0.3}	133 ⁺²² ₋₂₂	1250	15.77 ^{+0.16} _{-0.16}	55.36 ^{+0.05} _{-0.05}	6.26E+37	6.12E+34
4638	58749.883334509	563.7 ^{+1.1} _{-1.1}	4.5 ^{+0.8} _{-0.8}	55 ⁺¹⁴ ₋₁₄	1300	8.24 ^{+0.08} _{-0.08}	36.78 ^{+0.07} _{-0.07}	4.16E+37	7.50E+34
4639	58749.883335938	563.2 ^{+1.1} _{-1.1}	5.9 ^{+1.2} _{-1.2}	108 ⁺⁶² ₋₆₂	1181	6.92 ^{+0.07} _{-0.07}	40.91 ^{+0.08} _{-0.08}	4.62E+37	9.35E+34
4640	58749.884033770	564.1 ^{+0.8} _{-0.8}	4.1 ^{+0.8} _{-0.8}	57 ⁺³⁷ ₋₃₇	1370	8.51 ^{+0.08} _{-0.08}	34.65 ^{+0.07} _{-0.07}	3.92E+37	7.93E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err_Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4641	58749.884042686	563.1 ^{+1.4} _{-1.4}	2.6 ^{+0.6} _{-0.6}	59 ⁺²⁶ ₋₂₆	1412	8.19 ^{+0.08} _{-0.08}	21.38 ^{+0.05} _{-0.05}	2.42E+37	5.13E+34
4642	58749.884499856	564.0 ^{+1.2} _{-1.2}	5.5 ^{+0.4} _{-0.4}	150 ⁺²⁰ ₋₂₀	1335	16.08 ^{+0.96} _{-0.96}	88.28 ^{+0.38} _{-0.38}	9.45E+37	4.11E+35
4643	58749.884499861	564.0 ^{+1.2} _{-1.2}	1.2 ^{+0.3} _{-0.3}	160 ⁺²⁰ ₋₂₀	1330	5.90 ^{+0.98} _{-0.98}	7.08 ^{+0.33} _{-0.33}	7.58E+36	3.57E+35
4644	58749.885132054	563.4 ^{+1.1} _{-1.1}	7.8 ^{+1.0} _{-1.0}	93 ⁺¹³ ₋₁₃	1206	7.90 ^{+0.76} _{-0.76}	61.86 ^{+0.72} _{-0.72}	6.62E+37	7.73E+35
4645	58749.885236271	562.9 ^{+1.1} _{-1.1}	4.3 ^{+0.7} _{-0.7}	77 ⁺³⁴ ₋₃₄	1268	9.65 ^{+0.09} _{-0.09}	41.34 ^{+0.07} _{-0.07}	4.67E+37	7.61E+34
4646	58749.885394573	564.7 ^{+0.6} _{-0.6}	3.8 ^{+0.3} _{-0.3}	129 ⁺²⁷ ₋₂₇	1261	16.78 ^{+0.16} _{-0.16}	63.76 ^{+0.06} _{-0.06}	7.20E+37	6.33E+34
4647	58749.885790187	563.2 ^{+0.3} _{-0.3}	1.5 ^{+0.1} _{-0.1}	112 ⁺³⁵ ₋₃₅	1343	19.36 ^{+0.19} _{-0.19}	28.30 ^{+0.02} _{-0.02}	3.20E+37	2.68E+34
4648	58749.886422513	563.9 ^{+1.1} _{-1.1}	2.5 ^{+0.5} _{-0.5}	93 ⁺⁴² ₋₄₂	1397	8.71 ^{+0.08} _{-0.08}	21.48 ^{+0.04} _{-0.04}	2.43E+37	4.24E+34
4649	58749.887868980	563.7 ^{+1.0} _{-1.0}	5.9 ^{+1.6} _{-1.6}	61 ⁺⁵² ₋₅₂	1388	5.26 ^{+0.05} _{-0.05}	30.78 ^{+0.08} _{-0.08}	3.48E+37	9.19E+34
4650	58749.887963251	564.8 ^{+0.2} _{-0.2}	2.7 ^{+0.1} _{-0.1}	399 ⁺³³ ₋₃₃	1214	33.82 ^{+1.36} _{-1.36}	90.30 ^{+0.19} _{-0.19}	9.67E+37	2.04E+35
4651	58749.888121596	563.0 ^{+1.2} _{-1.2}	4.0 ^{+0.8} _{-0.8}	208 ⁺¹²⁴ ₋₁₂₄	1313	8.02 ^{+0.08} _{-0.08}	32.17 ^{+0.06} _{-0.06}	3.64E+37	7.17E+34
4652	58749.888122168	563.8 ^{+1.2} _{-1.2}	4.8 ^{+1.3} _{-1.3}	144 ⁺⁶⁹ ₋₆₉	1160	6.33 ^{+0.06} _{-0.06}	30.42 ^{+0.08} _{-0.08}	3.44E+37	8.94E+34
4653	58749.888293960	565.3 ^{+0.1} _{-0.1}	3.4 ^{+0.1} _{-0.1}	296 ⁺¹⁹ ₋₁₉	1351	59.90 ^{+1.26} _{-1.26}	206.06 ^{+0.11} _{-0.11}	2.21E+38	1.21E+35
4654	58749.888951156	564.9 ^{+0.6} _{-0.6}	3.4 ^{+0.5} _{-0.5}	86 ⁺²⁵ ₋₂₅	1279	12.18 ^{+0.12} _{-0.12}	41.52 ^{+0.05} _{-0.05}	4.69E+37	5.86E+34
4655	58749.890286353	562.0 ^{+0.6} _{-0.6}	7.3 ^{+2.4} _{-2.4}	66 ⁺¹⁷ ₋₁₇	1317	6.05 ^{+0.06} _{-0.06}	43.85 ^{+0.13} _{-0.13}	4.96E+37	1.51E+35
4656	58749.890856692	563.2 ^{+1.3} _{-1.3}	5.4 ^{+1.0} _{-1.0}	84 ⁺²⁵ ₋₂₅	1361	7.28 ^{+0.07} _{-0.07}	39.47 ^{+0.06} _{-0.06}	4.46E+37	7.34E+34
4657	58749.890857105	562.3 ^{+1.2} _{-1.2}	4.2 ^{+1.0} _{-1.0}	223 ⁺⁶ ₋₆	1245	5.43 ^{+0.05} _{-0.05}	22.60 ^{+0.05} _{-0.05}	2.55E+37	5.86E+34
4658	58749.891093397	562.8 ^{+1.0} _{-1.0}	3.5 ^{+0.4} _{-0.4}	124 ⁺⁵¹ ₋₅₁	1323	13.90 ^{+1.18} _{-1.18}	48.37 ^{+0.41} _{-0.41}	5.18E+37	4.42E+35
4659	58749.891349372	564.5 ^{+0.4} _{-0.4}	3.4 ^{+0.3} _{-0.3}	210 ⁺²⁰ ₋₂₀	1228	13.68 ^{+1.14} _{-1.14}	46.79 ^{+0.39} _{-0.39}	5.01E+37	4.15E+35
4660	58749.891769789	564.2 ^{+1.0} _{-1.0}	5.4 ^{+1.4} _{-1.4}	117 ⁺²⁸ ₋₂₈	1084	7.96 ^{+0.07} _{-0.07}	42.71 ^{+0.10} _{-0.10}	4.83E+37	1.12E+35
4661	58749.892107625	565.5 ^{+0.5} _{-0.5}	4.0 ^{+0.2} _{-0.2}	194 ⁺¹⁶ ₋₁₆	1400	24.46 ^{+1.10} _{-1.10}	96.86 ^{+0.23} _{-0.23}	1.04E+38	2.47E+35
4662	58749.892138758	565.5 ^{+0.7} _{-0.7}	4.5 ^{+0.3} _{-0.3}	395 ⁺⁵² ₋₅₂	1297	21.15 ^{+0.99} _{-0.99}	94.33 ^{+0.31} _{-0.31}	1.01E+38	3.29E+35
4663	58749.892353184	563.9 ^{+0.0} _{-0.0}	2.3 ^{+0.0} _{-0.0}	417 ⁺¹⁶ ₋₁₆	1291	480.04 ^{+1.82} _{-1.82}	1113.69 ^{+0.02} _{-0.02}	1.19E+39	1.95E+34
4664	58749.892353262	563.9 ^{+0.0} _{-0.0}	5.8 ^{+0.5} _{-0.5}	492 ⁺⁶ ₋₆	1253	15.57 ^{+0.89} _{-0.89}	89.84 ^{+0.47} _{-0.47}	9.62E+37	5.05E+35
4665	58749.892354905	562.9 ^{+0.9} _{-0.9}	3.4 ^{+0.5} _{-0.5}	115 ⁺⁵⁷ ₋₅₇	1136	8.19 ^{+1.11} _{-1.11}	27.85 ^{+0.60} _{-0.60}	2.98E+37	6.42E+35
4666	58749.892511814	563.1 ^{+0.5} _{-0.5}	3.8 ^{+0.6} _{-0.6}	111 ⁺¹⁷ ₋₁₇	1413	9.31 ^{+0.09} _{-0.09}	35.23 ^{+0.05} _{-0.05}	3.98E+37	6.12E+34
4667	58749.892512409	564.2 ^{+1.1} _{-1.1}	6.2 ^{+1.0} _{-1.0}	211 ⁺³⁷ ₋₃₇	1234	6.82 ^{+0.06} _{-0.06}	42.43 ^{+0.06} _{-0.06}	4.79E+37	7.31E+34
4668	58749.894657464	564.1 ^{+0.8} _{-0.8}	2.8 ^{+0.7} _{-0.7}	53 ⁺¹⁴ ₋₁₄	1406	5.71 ^{+0.05} _{-0.05}	15.98 ^{+0.04} _{-0.04}	1.81E+37	4.16E+34
4669	58750.854867639	562.6 ^{+1.4} _{-1.4}	8.0 ^{+2.2} _{-2.2}	84 ⁺⁵⁶ ₋₅₆	1199	6.22 ^{+0.07} _{-0.07}	49.81 ^{+0.17} _{-0.17}	5.63E+37	1.88E+35
4670	58750.855423186	565.8 ^{+0.4} _{-0.4}	2.8 ^{+0.4} _{-0.4}	306 ⁺²⁹ ₋₂₉	1347	59.48 ^{+0.71} _{-0.71}	168.10 ^{+2.30} _{-2.30}	1.80E+38	2.46E+36
4671	58750.855648703	563.8 ^{+0.8} _{-0.8}	4.6 ^{+0.4} _{-0.4}	202 ⁺⁶⁸ ₋₆₈	1253	15.01 ^{+1.14} _{-1.14}	69.05 ^{+0.48} _{-0.48}	7.39E+37	5.13E+35
4672	58750.855863203	562.9 ^{+1.2} _{-1.2}	5.0 ^{+0.7} _{-0.7}	119 ⁺¹² ₋₁₂	1362	5.83 ^{+0.07} _{-0.07}	29.01 ^{+0.39} _{-0.39}	3.11E+37	4.21E+35
4673	58750.856565551	561.8 ^{+0.8} _{-0.8}	4.0 ^{+0.6} _{-0.6}	88 ⁺⁷⁴ ₋₇₄	1373	9.92 ^{+0.12} _{-0.12}	40.17 ^{+0.07} _{-0.07}	4.54E+37	8.13E+34
4674	58750.857944268	563.9 ^{+0.5} _{-0.5}	2.6 ^{+0.2} _{-0.2}	98 ⁺²⁷ ₋₂₇	1390	18.81 ^{+1.54} _{-1.54}	49.66 ^{+0.38} _{-0.38}	5.32E+37	4.12E+35
4675	58750.859535921	563.4 ^{+1.5} _{-1.5}	5.2 ^{+0.7} _{-0.7}	191 ⁺⁶⁸ ₋₆₈	1266	9.93 ^{+1.15} _{-1.15}	51.74 ^{+0.84} _{-0.84}	5.54E+37	8.99E+35
4676	58750.859651461	564.0 ^{+1.0} _{-1.0}	5.3 ^{+0.5} _{-0.5}	112 ⁺³⁴ ₋₃₄	1305	15.78 ^{+1.15} _{-1.15}	83.48 ^{+0.54} _{-0.54}	8.94E+37	5.79E+35
4677	58750.859651466	564.0 ^{+1.0} _{-1.0}	5.1 ^{+0.4} _{-0.4}	211 ⁺³⁹ ₋₃₉	1229	15.83 ^{+1.02} _{-1.02}	80.42 ^{+0.42} _{-0.42}	8.61E+37	4.48E+35
4678	58750.860539519	564.1 ^{+1.0} _{-1.0}	2.2 ^{+0.6} _{-0.6}	216 ⁺³⁸ ₋₃₈	1377	11.52 ^{+2.97} _{-2.97}	25.11 ^{+1.78} _{-1.78}	2.69E+37	1.91E+36
4679	58750.860539913	563.1 ^{+1.4} _{-1.4}	3.1 ^{+0.7} _{-0.7}	51 ⁺⁴ ₋₄	1403	4.59 ^{+0.05} _{-0.05}	14.13 ^{+0.04} _{-0.04}	1.60E+37	4.26E+34
4680	58750.861181625	563.3 ^{+1.2} _{-1.2}	5.3 ^{+1.0} _{-1.0}	226 ⁺¹⁷⁶ ₋₁₇₆	1193	6.48 ^{+0.07} _{-0.07}	34.15 ^{+0.07} _{-0.07}	3.86E+37	8.47E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^{a)}	DM ^{b)}	W _{eff} ^{c)}	Bandwidth ^{d)}	Cntrl freq.	Peak flux	Fluence	Energy ^{e)} _{1.25GHz}	Err.Energy ^{f)} _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4681	58750.861997194	562.7 ^{+1.2} _{-1.2}	6.9 ^{+2.6} _{-2.6}	98 ⁺⁷ ₋₇	1374	3.99 ^{+0.05} _{-0.05}	27.61 ^{+0.12} _{-0.12}	3.12E+37	1.37E+35
4682	58750.862890073	563.5 ^{+1.3} _{-1.3}	5.6 ^{+1.2} _{-1.2}	84 ⁺⁴⁷ ₋₄₇	1170	7.88 ^{+0.09} _{-0.09}	44.26 ^{+0.10} _{-0.10}	5.00E+37	1.17E+35
4683	58750.862891749	563.8 ^{+0.3} _{-0.3}	2.8 ^{+0.4} _{-0.4}	155 ⁺²⁶ ₋₂₆	1098	13.09 ^{+0.15} _{-0.15}	36.04 ^{+0.06} _{-0.06}	4.07E+37	6.41E+34
4684	58750.863537128	563.0 ^{+0.7} _{-0.7}	2.4 ^{+0.5} _{-0.5}	62 ⁺²² ₋₂₂	1101	8.60 ^{+0.10} _{-0.10}	20.31 ^{+0.05} _{-0.05}	2.30E+37	5.83E+34
4685	58750.863672025	564.8 ^{+0.9} _{-0.9}	3.0 ^{+0.3} _{-0.3}	120 ⁺⁵⁰ ₋₅₀	1362	15.40 ^{+0.17} _{-0.17}	46.08 ^{+0.05} _{-0.05}	5.21E+37	5.96E+34
4686	58750.863776122	564.2 ^{+0.5} _{-0.5}	5.5 ^{+0.3} _{-0.3}	380 ⁺²⁴ ₋₂₄	1295	25.33 ^{+1.01} _{-1.01}	140.33 ^{+0.27} _{-0.27}	1.50E+38	2.92E+35
4687	58750.864388707	565.2 ^{+0.8} _{-0.8}	3.2 ^{+0.2} _{-0.2}	217 ⁺¹⁰ ₋₁₀	1364	34.98 ^{+1.38} _{-1.38}	111.94 ^{+0.21} _{-0.21}	1.20E+38	2.22E+35
4688	58750.864388734	565.2 ^{+0.8} _{-0.8}	2.8 ^{+0.2} _{-0.2}	239 ⁺¹¹ ₋₁₁	1326	30.65 ^{+1.20} _{-1.20}	85.82 ^{+0.28} _{-0.28}	9.19E+37	2.95E+35
4689	58750.865056532	561.8 ^{+0.9} _{-0.9}	8.5 ^{+1.2} _{-1.2}	147 ⁺¹⁸ ₋₁₈	1192	7.72 ^{+0.89} _{-0.89}	65.93 ^{+1.11} _{-1.11}	7.06E+37	1.19E+36
4690	58750.865299721	563.5 ^{+1.3} _{-1.3}	3.7 ^{+0.4} _{-0.4}	176 ⁺³¹ ₋₃₁	1184	13.88 ^{+0.15} _{-0.15}	51.06 ^{+0.07} _{-0.07}	5.77E+37	7.38E+34
4691	58750.866141173	563.6 ^{+1.2} _{-1.2}	6.6 ^{+2.9} _{-2.9}	92 ⁺⁷⁹ ₋₇₉	1103	3.29 ^{+0.04} _{-0.04}	21.65 ^{+0.11} _{-0.11}	2.45E+37	1.20E+35
4692	58750.866141382	563.3 ^{+1.3} _{-1.3}	6.5 ^{+1.2} _{-1.2}	96 ⁺¹⁷ ₋₁₇	1094	6.29 ^{+0.07} _{-0.07}	40.65 ^{+0.08} _{-0.08}	4.59E+37	9.43E+34
4693	58750.866252294	562.7 ^{+1.3} _{-1.3}	9.8 ^{+2.6} _{-2.6}	89 ⁺²¹ ₋₂₁	1357	6.30 ^{+0.07} _{-0.07}	61.71 ^{+0.18} _{-0.18}	6.97E+37	2.03E+35
4694	58750.867296832	564.5 ^{+0.7} _{-0.7}	1.5 ^{+0.3} _{-0.3}	130 ⁺¹⁶ ₋₁₆	1409	16.99 ^{+3.21} _{-3.21}	25.15 ^{+1.00} _{-1.00}	2.69E+37	1.07E+36
4695	58750.867296858	564.5 ^{+0.7} _{-0.7}	4.7 ^{+0.8} _{-0.8}	194 ⁺¹⁵ ₋₁₅	1384	12.62 ^{+1.38} _{-1.38}	59.06 ^{+1.05} _{-1.05}	6.32E+37	1.12E+36
4696	58750.869087865	562.1 ^{+1.1} _{-1.1}	8.1 ^{+1.6} _{-1.6}	95 ⁺⁹² ₋₉₂	1403	7.19 ^{+0.08} _{-0.08}	58.32 ^{+0.13} _{-0.13}	6.59E+37	1.42E+35
4697	58750.869088006	561.8 ^{+1.0} _{-1.0}	7.5 ^{+1.8} _{-1.8}	279 ⁺¹⁴ ₋₁₄	1253	7.51 ^{+0.08} _{-0.08}	56.32 ^{+0.15} _{-0.15}	6.36E+37	1.69E+35
4698	58750.869286896	563.3 ^{+1.2} _{-1.2}	3.2 ^{+1.2} _{-1.2}	228 ⁺⁹ ₋₉	1328	3.90 ^{+0.04} _{-0.04}	12.47 ^{+0.05} _{-0.05}	1.41E+37	5.51E+34
4699	58750.869556087	563.8 ^{+0.9} _{-0.9}	3.4 ^{+0.7} _{-0.7}	60 ⁺¹⁵ ₋₁₅	1368	9.76 ^{+0.10} _{-0.10}	33.28 ^{+0.07} _{-0.07}	3.76E+37	7.93E+34
4700	58750.869956635	565.6 ^{+0.1} _{-0.1}	3.7 ^{+0.5} _{-0.5}	185 ⁺³¹ ₋₃₁	1352	16.99 ^{+0.18} _{-0.18}	63.26 ^{+0.09} _{-0.09}	7.15E+37	9.80E+34
4701	58750.871133855	563.5 ^{+1.3} _{-1.3}	2.2 ^{+0.4} _{-0.4}	93 ⁺¹⁶ ₋₁₆	1434	10.79 ^{+1.50} _{-1.50}	23.85 ^{+0.54} _{-0.54}	2.55E+37	5.78E+35
4702	58750.871983188	563.9 ^{+0.5} _{-0.5}	10.5 ^{+5.0} _{-5.0}	60 ⁺²³ ₋₂₃	1419	4.00 ^{+0.04} _{-0.04}	41.99 ^{+0.21} _{-0.21}	4.74E+37	2.37E+35
4703	58750.872181251	563.7 ^{+1.1} _{-1.1}	4.3 ^{+0.7} _{-0.7}	79 ⁺²⁵ ₋₂₅	1226	8.96 ^{+0.10} _{-0.10}	38.33 ^{+0.06} _{-0.06}	4.33E+37	7.05E+34
4704	58750.872271498	565.2 ^{+0.9} _{-0.9}	2.6 ^{+0.6} _{-0.6}	125 ⁺²³ ₋₂₃	1418	7.81 ^{+0.08} _{-0.08}	20.06 ^{+0.05} _{-0.05}	2.27E+37	5.34E+34
4705	58750.872381042	563.4 ^{+0.5} _{-0.5}	7.0 ^{+2.5} _{-2.5}	79 ⁺³ ₋₃	1398	5.10 ^{+0.05} _{-0.05}	35.74 ^{+0.13} _{-0.13}	4.04E+37	1.50E+35
4706	58750.872381228	563.2 ^{+1.1} _{-1.1}	3.2 ^{+0.6} _{-0.6}	72 ⁺³³ ₋₃₃	1400	7.34 ^{+0.08} _{-0.08}	23.59 ^{+0.05} _{-0.05}	2.67E+37	5.69E+34
4707	58750.872382129	562.1 ^{+0.8} _{-0.8}	7.8 ^{+2.1} _{-2.1}	135 ⁺¹⁰⁵ ₋₁₀₅	1356	5.62 ^{+0.06} _{-0.06}	43.92 ^{+0.13} _{-0.13}	4.96E+37	1.45E+35
4708	58750.872385294	562.9 ^{+1.1} _{-1.1}	5.2 ^{+1.2} _{-1.2}	70 ⁺³¹ ₋₃₁	1284	6.86 ^{+0.07} _{-0.07}	35.55 ^{+0.09} _{-0.09}	4.02E+37	1.02E+35
4709	58750.872752731	563.3 ^{+1.4} _{-1.4}	4.6 ^{+1.7} _{-1.7}	143 ⁺⁷³ ₋₇₃	1209	5.41 ^{+0.06} _{-0.06}	25.01 ^{+0.10} _{-0.10}	2.83E+37	1.11E+35
4710	58750.872752883	564.5 ^{+0.8} _{-0.8}	3.3 ^{+0.5} _{-0.5}	62 ⁺³⁰ ₋₃₀	1321	7.44 ^{+0.08} _{-0.08}	24.46 ^{+0.04} _{-0.04}	2.76E+37	4.40E+34
4711	58750.873660685	563.6 ^{+1.3} _{-1.3}	5.7 ^{+2.1} _{-2.1}	116 ⁺⁶⁶ ₋₆₆	1369	4.69 ^{+0.05} _{-0.05}	26.54 ^{+0.10} _{-0.10}	3.00E+37	1.16E+35
4712	58750.873757610	563.1 ^{+1.5} _{-1.5}	4.6 ^{+1.8} _{-1.8}	22 ⁺⁴ ₋₄	1458	3.28 ^{+0.04} _{-0.04}	15.17 ^{+0.06} _{-0.06}	1.71E+37	6.99E+34
4713	58750.873757914	564.0 ^{+0.5} _{-0.5}	4.2 ^{+0.4} _{-0.4}	251 ⁺⁶³ ₋₆₃	1306	12.83 ^{+1.04} _{-1.04}	53.50 ^{+0.42} _{-0.42}	5.73E+37	4.45E+35
4714	58750.873765454	565.6 ^{+0.3} _{-0.3}	3.3 ^{+0.4} _{-0.4}	206 ⁺²⁹ ₋₂₉	1216	12.47 ^{+1.17} _{-1.17}	41.15 ^{+0.43} _{-0.43}	4.41E+37	4.63E+35
4715	58750.873944175	563.8 ^{+1.1} _{-1.1}	4.2 ^{+0.4} _{-0.4}	114 ⁺⁹⁸ ₋₉₈	1147	9.73 ^{+0.10} _{-0.10}	40.47 ^{+0.04} _{-0.04}	4.57E+37	4.92E+34
4716	58750.874347258	563.4 ^{+0.7} _{-0.7}	4.9 ^{+0.6} _{-0.6}	154 ⁺⁵¹ ₋₅₁	1157	9.65 ^{+0.98} _{-0.98}	47.00 ^{+0.58} _{-0.58}	5.03E+37	6.19E+35
4717	58750.874347567	561.4 ^{+0.5} _{-0.5}	5.4 ^{+2.8} _{-2.8}	55 ⁺⁵ ₋₅	1107	3.25 ^{+0.03} _{-0.03}	17.59 ^{+0.09} _{-0.09}	1.99E+37	1.06E+35
4718	58750.874670058	564.1 ^{+0.9} _{-0.9}	3.8 ^{+0.4} _{-0.4}	100 ⁺⁴⁷ ₋₄₇	1409	12.51 ^{+1.11} _{-1.11}	47.79 ^{+0.44} _{-0.44}	5.12E+37	4.75E+35
4719	58750.874670083	564.1 ^{+0.9} _{-0.9}	2.4 ^{+0.5} _{-0.5}	136 ⁺⁴⁷ ₋₄₇	1349	13.81 ^{+1.30} _{-1.30}	33.14 ^{+0.65} _{-0.65}	3.55E+37	6.96E+35
4720	58750.874790150	562.6 ^{+1.2} _{-1.2}	2.8 ^{+0.7} _{-0.7}	249 ⁺⁵ ₋₅	1210	5.14 ^{+0.05} _{-0.05}	14.59 ^{+0.04} _{-0.04}	1.65E+37	4.20E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4721	58750.875971524	564.8 ^{+0.7} _{-0.7}	3.2 ^{+0.5} _{-0.5}	98 ⁺²³ ₋₂₃	1234	10.02 ^{+1.32} _{-1.32}	31.56 ^{+0.65} _{-0.65}	3.38E+37	6.92E+35
4722	58750.876279424	563.2 ^{+0.4} _{-0.4}	4.2 ^{+0.6} _{-0.6}	145 ⁺³² ₋₃₂	1259	11.06 ^{+1.21} _{-1.21}	45.90 ^{+0.73} _{-0.73}	4.91E+37	7.77E+35
4723	58750.876279481	563.4 ^{+0.5} _{-0.5}	7.8 ^{+1.0} _{-1.0}	276 ⁺⁴⁵ ₋₄₅	1192	12.70 ^{+0.13} _{-0.13}	99.62 ^{+0.13} _{-0.13}	1.13E+38	1.42E+35
4724	58750.876384667	565.2 ^{+0.4} _{-0.4}	2.3 ^{+0.4} _{-0.4}	62 ⁺³⁵ ₋₃₅	1373	10.57 ^{+0.11} _{-0.11}	24.79 ^{+0.04} _{-0.04}	2.80E+37	4.45E+34
4725	58750.876643755	564.7 ^{+0.9} _{-0.9}	5.3 ^{+0.7} _{-0.7}	64 ⁺¹⁸ ₋₁₈	1118	7.82 ^{+0.08} _{-0.08}	41.27 ^{+0.06} _{-0.06}	4.66E+37	6.28E+34
4726	58750.876643839	564.7 ^{+0.9} _{-0.9}	4.6 ^{+0.8} _{-0.8}	241 ⁺⁴ ₋₄	1227	7.91 ^{+0.08} _{-0.08}	36.70 ^{+0.06} _{-0.06}	4.14E+37	7.12E+34
4727	58750.877098073	562.9 ^{+1.1} _{-1.1}	9.1 ^{+2.0} _{-2.0}	63 ⁺⁵ ₋₅	1427	4.78 ^{+0.05} _{-0.05}	43.47 ^{+0.10} _{-0.10}	4.91E+37	1.09E+35
4728	58750.877744429	561.8 ^{+0.4} _{-0.4}	3.3 ^{+0.7} _{-0.7}	59 ⁺³⁶ ₋₃₆	1078	7.87 ^{+0.08} _{-0.08}	25.74 ^{+0.06} _{-0.06}	2.91E+37	6.68E+34
4729	58750.878213399	562.5 ^{+1.2} _{-1.2}	4.2 ^{+1.0} _{-1.0}	78 ⁺⁵⁹ ₋₅₉	1119	6.06 ^{+0.06} _{-0.06}	25.76 ^{+0.06} _{-0.06}	2.91E+37	7.09E+34
4730	58750.879681051	563.1 ^{+1.1} _{-1.1}	3.6 ^{+1.1} _{-1.1}	13 ⁺¹³ ₋₁₃	1447	3.21 ^{+0.03} _{-0.03}	11.46 ^{+0.03} _{-0.03}	1.29E+37	3.88E+34
4731	58750.880664656	561.2 ^{+0.6} _{-0.6}	7.2 ^{+1.5} _{-1.5}	67 ⁺⁴⁰ ₋₄₀	1321	5.42 ^{+0.05} _{-0.05}	38.78 ^{+0.08} _{-0.08}	4.38E+37	9.16E+34
4732	58750.881023964	563.2 ^{+0.9} _{-0.9}	4.7 ^{+0.9} _{-0.9}	70 ⁺¹² ₋₁₂	1156	6.85 ^{+0.07} _{-0.07}	32.13 ^{+0.06} _{-0.06}	3.63E+37	6.97E+34
4733	58750.881060126	563.5 ^{+0.1} _{-0.1}	3.0 ^{+0.1} _{-0.1}	494 ⁺⁴ ₋₄	1252	132.69 ^{+6.18} _{-6.18}	399.40 ^{+0.56} _{-0.56}	4.28E+38	5.95E+35
4734	58750.881060149	563.5 ^{+0.1} _{-0.1}	6.0 ^{+0.1} _{-0.1}	304 ⁺¹⁸ ₋₁₈	1154	91.33 ^{+4.60} _{-4.60}	547.07 ^{+0.64} _{-0.64}	5.86E+38	6.89E+35
4735	58750.881183530	563.4 ^{+1.4} _{-1.4}	5.0 ^{+0.9} _{-0.9}	98 ⁺⁴⁹ ₋₄₉	1230	8.61 ^{+0.08} _{-0.08}	43.12 ^{+0.08} _{-0.08}	4.87E+37	8.79E+34
4736	58750.882146699	562.2 ^{+1.1} _{-1.1}	5.6 ^{+1.3} _{-1.3}	166 ⁺¹¹ ₋₁₁	1098	8.19 ^{+0.08} _{-0.08}	45.89 ^{+0.10} _{-0.10}	5.19E+37	1.15E+35
4737	58750.883883502	563.4 ^{+1.3} _{-1.3}	6.2 ^{+0.4} _{-0.4}	176 ⁺¹¹ ₋₁₁	1390	15.56 ^{+0.85} _{-0.85}	96.78 ^{+0.35} _{-0.35}	1.04E+38	3.73E+35
4738	58750.883883573	563.4 ^{+1.3} _{-1.3}	6.6 ^{+0.9} _{-0.9}	115 ⁺²⁵ ₋₂₅	1374	16.45 ^{+0.91} _{-0.91}	107.91 ^{+0.81} _{-0.81}	1.16E+38	8.67E+35
4739	58750.883934553	563.5 ^{+1.2} _{-1.2}	2.0 ^{+0.4} _{-0.4}	49 ⁺⁵ ₋₅	1439	8.18 ^{+0.08} _{-0.08}	16.20 ^{+0.03} _{-0.03}	1.83E+37	3.44E+34
4740	58750.884348958	563.3 ^{+1.2} _{-1.2}	11.0 ^{+1.6} _{-1.6}	76 ⁺³ ₋₃	1116	3.74 ^{+0.04} _{-0.04}	40.99 ^{+0.45} _{-0.45}	4.39E+37	4.83E+35
4741	58750.884733542	563.0 ^{+1.5} _{-1.5}	8.9 ^{+1.3} _{-1.3}	60 ⁺³⁷ ₋₃₇	1064	5.76 ^{+0.06} _{-0.06}	50.99 ^{+0.56} _{-0.56}	5.46E+37	5.97E+35
4742	58750.884817932	562.1 ^{+0.9} _{-0.9}	4.0 ^{+1.2} _{-1.2}	49 ⁺⁴ ₋₄	1428	5.75 ^{+0.06} _{-0.06}	22.93 ^{+0.07} _{-0.07}	2.59E+37	7.40E+34
4743	58750.884818099	563.5 ^{+1.3} _{-1.3}	3.9 ^{+1.2} _{-1.2}	79 ⁺¹⁸ ₋₁₈	1391	6.76 ^{+0.06} _{-0.06}	26.38 ^{+0.08} _{-0.08}	2.98E+37	8.72E+34
4744	58750.886592651	562.9 ^{+1.2} _{-1.2}	6.1 ^{+2.1} _{-2.1}	57 ⁺⁵ ₋₅	1387	5.02 ^{+0.05} _{-0.05}	30.43 ^{+0.10} _{-0.10}	3.44E+37	1.12E+35
4745	58750.887854913	561.4 ^{+0.8} _{-0.8}	1.9 ^{+0.6} _{-0.6}	145 ⁺³⁵ ₋₃₅	1341	6.23 ^{+0.06} _{-0.06}	11.76 ^{+0.04} _{-0.04}	1.33E+37	4.14E+34
4746	58750.887889019	563.7 ^{+1.1} _{-1.1}	3.0 ^{+0.4} _{-0.4}	126 ⁺⁴⁴ ₋₄₄	1354	10.71 ^{+1.16} _{-1.16}	32.56 ^{+0.45} _{-0.45}	3.49E+37	4.84E+35
4747	58750.888221385	564.1 ^{+1.1} _{-1.1}	3.7 ^{+0.3} _{-0.3}	259 ⁺²³ ₋₂₃	1266	20.66 ^{+1.61} _{-1.61}	76.24 ^{+0.48} _{-0.48}	8.16E+37	5.17E+35
4748	58750.888221460	564.1 ^{+1.1} _{-1.1}	9.4 ^{+1.9} _{-1.9}	195 ⁺⁵⁷ ₋₅₇	1188	7.34 ^{+0.66} _{-0.66}	68.85 ^{+1.26} _{-1.26}	7.37E+37	1.35E+36
4749	58750.888785898	562.4 ^{+1.0} _{-1.0}	2.9 ^{+0.8} _{-0.8}	75 ⁺¹¹ ₋₁₁	1421	6.76 ^{+0.06} _{-0.06}	19.66 ^{+0.05} _{-0.05}	2.22E+37	5.74E+34
4750	58750.888786552	562.7 ^{+1.2} _{-1.2}	11.6 ^{+1.5} _{-1.5}	62 ⁺¹⁶ ₋₁₆	1405	6.21 ^{+0.61} _{-0.61}	71.97 ^{+0.94} _{-0.94}	7.70E+37	1.01E+36
4751	58750.888787496	562.3 ^{+0.6} _{-0.6}	3.7 ^{+1.6} _{-1.6}	149 ⁺¹⁰⁴ ₋₁₀₄	1155	4.09 ^{+0.04} _{-0.04}	14.96 ^{+0.06} _{-0.06}	1.69E+37	6.82E+34
4752	58750.889594611	562.6 ^{+1.4} _{-1.4}	61.6 ^{+115.5} _{-115.5}	163 ⁺⁵⁴ ₋₅₄	1342	17.99 ^{+59.95} _{-59.95}	1107.46 ^{+6923.63} _{-6923.63}	1.19E+39	7.41E+39
4753	58750.892188219	564.8 ^{+0.7} _{-0.7}	3.2 ^{+0.3} _{-0.3}	71 ⁺¹⁷ ₋₁₇	1351	14.79 ^{+1.02} _{-1.02}	46.88 ^{+0.27} _{-0.27}	5.02E+37	2.84E+35
4754	58750.892188242	564.8 ^{+0.7} _{-0.7}	3.4 ^{+0.6} _{-0.6}	195 ⁺²⁵ ₋₂₅	1294	14.86 ^{+1.20} _{-1.20}	50.52 ^{+0.67} _{-0.67}	5.41E+37	7.19E+35
4755	58750.892495889	563.3 ^{+1.2} _{-1.2}	3.2 ^{+1.0} _{-1.0}	73 ⁺²⁴ ₋₂₄	1093	6.52 ^{+0.06} _{-0.06}	20.80 ^{+0.06} _{-0.06}	2.35E+37	6.24E+34
4756	58750.892956356	563.0 ^{+1.3} _{-1.3}	11.1 ^{+3.5} _{-3.5}	167 ⁺⁴⁵ ₋₄₅	1214	5.22 ^{+0.05} _{-0.05}	58.07 ^{+0.16} _{-0.16}	6.56E+37	1.83E+35
4757	58750.893727367	563.0 ^{+1.3} _{-1.3}	3.2 ^{+1.1} _{-1.1}	83 ⁺³¹ ₋₃₁	1365	4.42 ^{+0.04} _{-0.04}	13.94 ^{+0.04} _{-0.04}	1.58E+37	4.97E+34
4758	58750.893771428	564.7 ^{+0.7} _{-0.7}	3.5 ^{+1.4} _{-1.4}	89 ⁺⁹ ₋₉	1392	5.71 ^{+0.05} _{-0.05}	19.90 ^{+0.07} _{-0.07}	2.25E+37	7.65E+34
4759	58750.893771516	565.1 ^{+0.6} _{-0.6}	2.3 ^{+0.2} _{-0.2}	235 ⁺²² ₋₂₂	1303	17.83 ^{+1.35} _{-1.35}	41.54 ^{+0.28} _{-0.28}	4.45E+37	3.03E+35
4760	58750.893774190	563.8 ^{+0.3} _{-0.3}	5.4 ^{+0.3} _{-0.3}	69 ⁺¹¹ ₋₁₁	1044	20.26 ^{+0.81} _{-0.81}	110.42 ^{+0.21} _{-0.21}	1.18E+38	2.25E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4761	58750.893774264	563.8 ^{+0.3} _{-0.3}	2.1 ^{+0.6} _{-0.6}	162 ⁺¹¹ ₋₁₁	1083	17.38 ^{+0.41} _{-0.41}	36.50 ^{+0.23} _{-0.23}	3.91E+37	2.46E+35
4762	58750.894078174	563.4 ^{+1.0} _{-1.0}	4.4 ^{+2.1} _{-2.1}	55 ⁺³ ₋₃	1082	3.06 ^{+0.03} _{-0.03}	13.63 ^{+0.06} _{-0.06}	1.54E+37	6.51E+34
4763	58750.894470099	563.8 ^{+1.3} _{-1.3}	4.0 ^{+0.6} _{-0.6}	63 ⁺⁴⁰ ₋₄₀	1392	8.47 ^{+0.07} _{-0.07}	34.01 ^{+0.34} _{-0.34}	3.64E+37	3.64E+35
4764	58750.894600063	563.9 ^{+1.1} _{-1.1}	5.8 ^{+1.1} _{-1.1}	153 ⁺²⁴ ₋₂₄	1155	9.31 ^{+0.08} _{-0.08}	54.38 ^{+0.09} _{-0.09}	6.14E+37	1.01E+35
4765	58750.894677079	563.7 ^{+1.2} _{-1.2}	10.1 ^{+1.5} _{-1.5}	167 ⁺³² ₋₃₂	1392	10.38 ^{+0.09} _{-0.09}	104.83 ^{+1.05} _{-1.05}	1.12E+38	1.13E+36
4766	58750.894910836	565.3 ^{+0.2} _{-0.2}	2.8 ^{+0.4} _{-0.4}	374 ⁺²¹ ₋₂₁	1295	22.97 ^{+0.20} _{-0.20}	63.95 ^{+0.63} _{-0.63}	6.85E+37	6.79E+35
4767	58751.884414573	565.0 ^{+0.2} _{-0.2}	2.6 ^{+0.1} _{-0.1}	191 ⁺⁹ ₋₉	1402	47.41 ^{+1.25} _{-1.25}	121.37 ^{+0.10} _{-0.10}	1.30E+38	1.07E+35
4768	58751.884503765	563.8 ^{+0.2} _{-0.2}	1.8 ^{+0.0} _{-0.0}	225 ⁺²¹ ₋₂₁	1385	62.56 ^{+1.64} _{-1.64}	109.48 ^{+0.08} _{-0.08}	1.17E+38	8.78E+34
4769	58751.884503784	563.8 ^{+0.2} _{-0.2}	1.5 ^{+0.2} _{-0.2}	287 ⁺⁸ ₋₈	1356	61.32 ^{+1.50} _{-1.50}	91.98 ^{+0.32} _{-0.32}	9.85E+37	3.37E+35
4770	58751.885246092	563.5 ^{+1.2} _{-1.2}	4.9 ^{+0.5} _{-0.5}	149 ⁺²³ ₋₂₃	1099	9.69 ^{+0.88} _{-0.88}	47.58 ^{+0.48} _{-0.48}	5.09E+37	5.09E+35
4771	58751.885724649	563.2 ^{+1.3} _{-1.3}	2.8 ^{+0.5} _{-0.5}	100 ⁺¹⁹ ₋₁₉	1346	8.76 ^{+0.08} _{-0.08}	24.36 ^{+0.04} _{-0.04}	2.75E+37	4.55E+34
4772	58751.886347071	562.7 ^{+1.2} _{-1.2}	4.3 ^{+0.5} _{-0.5}	223 ⁺²² ₋₂₂	1124	9.66 ^{+0.95} _{-0.95}	41.25 ^{+0.47} _{-0.47}	4.42E+37	5.08E+35
4773	58751.886347297	562.7 ^{+0.7} _{-0.7}	6.1 ^{+2.9} _{-2.9}	68 ⁺⁵ ₋₅	1275	3.94 ^{+0.04} _{-0.04}	24.15 ^{+0.10} _{-0.10}	2.73E+37	1.16E+35
4774	58751.887085374	563.9 ^{+1.4} _{-1.4}	4.2 ^{+0.6} _{-0.6}	238 ⁺²¹ ₋₂₁	1194	14.72 ^{+0.96} _{-0.96}	61.53 ^{+0.54} _{-0.54}	6.59E+37	5.75E+35
4775	58751.887085408	563.9 ^{+1.4} _{-1.4}	1.6 ^{+0.4} _{-0.4}	252 ⁺⁹ ₋₉	1133	10.06 ^{+2.31} _{-2.31}	15.59 ^{+0.95} _{-0.95}	1.67E+37	1.01E+36
4776	58751.887276448	563.4 ^{+1.2} _{-1.2}	1.2 ^{+0.2} _{-0.2}	148 ⁺⁴⁹ ₋₄₉	1331	9.56 ^{+1.74} _{-1.74}	11.19 ^{+0.43} _{-0.43}	1.20E+37	4.66E+35
4777	58751.888081766	564.1 ^{+1.0} _{-1.0}	5.3 ^{+1.5} _{-1.5}	110 ⁺³⁵ ₋₃₅	1125	5.04 ^{+0.04} _{-0.04}	26.83 ^{+0.07} _{-0.07}	3.03E+37	7.84E+34
4778	58751.888211359	562.9 ^{+1.3} _{-1.3}	8.0 ^{+1.0} _{-1.0}	68 ⁺¹⁹ ₋₁₉	1381	7.78 ^{+0.76} _{-0.76}	62.63 ^{+0.75} _{-0.75}	6.70E+37	8.05E+35
4779	58751.888211647	562.9 ^{+1.4} _{-1.4}	1.4 ^{+0.8} _{-0.8}	26 ⁺¹⁶⁰ ₋₁₆₀	1174	3.56 ^{+0.03} _{-0.03}	5.15 ^{+0.02} _{-0.02}	5.82E+36	2.82E+34
4780	58751.889399660	562.7 ^{+1.3} _{-1.3}	6.0 ^{+1.4} _{-1.4}	95 ⁺³⁶ ₋₃₆	1262	5.62 ^{+0.05} _{-0.05}	33.99 ^{+0.07} _{-0.07}	3.84E+37	8.05E+34
4781	58751.890445974	564.0 ^{+1.1} _{-1.1}	4.9 ^{+0.6} _{-0.6}	154 ⁺³⁴ ₋₃₄	1225	7.88 ^{+0.86} _{-0.86}	38.77 ^{+0.55} _{-0.55}	4.15E+37	5.89E+35
4782	58751.890499189	564.1 ^{+0.8} _{-0.8}	5.2 ^{+0.8} _{-0.8}	68 ⁺⁵⁴ ₋₅₄	1363	8.29 ^{+0.07} _{-0.07}	43.01 ^{+0.06} _{-0.06}	4.86E+37	6.73E+34
4783	58751.892855490	563.2 ^{+1.2} _{-1.2}	4.8 ^{+0.7} _{-0.7}	95 ⁺⁴⁴ ₋₄₄	1148	7.21 ^{+0.06} _{-0.06}	34.92 ^{+0.04} _{-0.04}	3.95E+37	4.63E+34
4784	58751.893643716	564.9 ^{+0.5} _{-0.5}	2.3 ^{+0.6} _{-0.6}	190 ⁺⁶ ₋₆	1155	17.82 ^{+10.04} _{-10.04}	41.52 ^{+6.43} _{-6.43}	4.44E+37	6.88E+36
4785	58751.893643742	564.9 ^{+0.5} _{-0.5}	4.3 ^{+1.6} _{-1.6}	270 ⁺²¹ ₋₂₁	1162	12.89 ^{+3.92} _{-3.92}	55.04 ^{+6.43} _{-6.43}	5.89E+37	6.88E+36
4786	58751.894421449	564.6 ^{+1.4} _{-1.4}	3.7 ^{+0.5} _{-0.5}	78 ⁺²¹ ₋₂₁	1103	7.47 ^{+0.06} _{-0.06}	27.29 ^{+0.27} _{-0.27}	2.92E+37	2.86E+35
4787	58751.895783556	563.5 ^{+1.2} _{-1.2}	3.6 ^{+0.7} _{-0.7}	114 ⁺²⁹ ₋₂₉	1204	7.55 ^{+0.06} _{-0.06}	27.49 ^{+0.05} _{-0.05}	3.11E+37	5.31E+34
4788	58751.896230170	565.0 ^{+0.6} _{-0.6}	5.0 ^{+0.4} _{-0.4}	223 ⁺²⁶ ₋₂₆	1379	12.58 ^{+0.85} _{-0.85}	62.65 ^{+0.34} _{-0.34}	6.71E+37	3.64E+35
4789	58751.897432287	562.9 ^{+1.2} _{-1.2}	16.2 ^{+2.9} _{-2.9}	151 ⁺¹³ ₋₁₃	1164	6.12 ^{+0.74} _{-0.74}	99.02 ^{+2.13} _{-2.13}	1.06E+38	2.28E+36
4790	58751.898739245	563.3 ^{+1.3} _{-1.3}	4.0 ^{+0.9} _{-0.9}	86 ⁺¹³ ₋₁₃	1146	7.72 ^{+0.06} _{-0.06}	30.66 ^{+0.06} _{-0.06}	3.47E+37	6.41E+34
4791	58751.899436838	564.4 ^{+0.8} _{-0.8}	7.4 ^{+1.7} _{-1.7}	169 ⁺⁷ ₋₇	1131	5.71 ^{+0.05} _{-0.05}	42.46 ^{+0.08} _{-0.08}	4.79E+37	9.14E+34
4792	58751.900202051	564.3 ^{+1.4} _{-1.4}	6.1 ^{+0.4} _{-0.4}	152 ⁺¹¹ ₋₁₁	1129	13.82 ^{+0.74} _{-0.74}	84.03 ^{+0.30} _{-0.30}	8.99E+37	3.17E+35
4793	58751.900202053	564.3 ^{+1.4} _{-1.4}	4.0 ^{+0.4} _{-0.4}	162 ⁺⁹ ₋₉	1118	13.89 ^{+0.43} _{-0.43}	54.87 ^{+0.18} _{-0.18}	5.87E+37	1.98E+35
4794	58751.901281062	565.5 ^{+0.5} _{-0.5}	3.9 ^{+0.3} _{-0.3}	95 ⁺³⁶ ₋₃₆	1226	13.55 ^{+0.92} _{-0.92}	52.30 ^{+0.29} _{-0.29}	5.60E+37	3.05E+35
4795	58751.901281128	565.5 ^{+0.5} _{-0.5}	3.2 ^{+0.4} _{-0.4}	164 ⁺¹⁸ ₋₁₈	1165	11.89 ^{+0.99} _{-0.99}	38.05 ^{+0.45} _{-0.45}	4.07E+37	4.77E+35
4796	58751.902404447	563.0 ^{+1.3} _{-1.3}	4.5 ^{+0.4} _{-0.4}	173 ⁺⁴¹ ₋₄₁	1319	10.00 ^{+0.82} _{-0.82}	45.00 ^{+0.36} _{-0.36}	4.82E+37	3.86E+35
4797	58751.902582347	562.7 ^{+1.2} _{-1.2}	6.8 ^{+0.6} _{-0.6}	220 ⁺²⁵ ₋₂₅	1123	8.98 ^{+0.69} _{-0.69}	61.33 ^{+0.44} _{-0.44}	6.57E+37	4.73E+35
4798	58751.902676126	563.0 ^{+1.2} _{-1.2}	2.4 ^{+0.8} _{-0.8}	231 ⁺⁶⁴ ₋₆₄	1242	5.25 ^{+1.33} _{-1.33}	12.76 ^{+1.02} _{-1.02}	1.37E+37	1.10E+36
4799	58751.903049187	563.7 ^{+1.3} _{-1.3}	7.6 ^{+1.9} _{-1.9}	190 ⁺²⁸ ₋₂₈	1300	6.77 ^{+0.05} _{-0.05}	51.68 ^{+0.10} _{-0.10}	5.84E+37	1.15E+35
4800	58751.903532849	564.7 ^{+0.6} _{-0.6}	5.5 ^{+1.0} _{-1.0}	151 ⁺³⁴ ₋₃₄	1155	7.05 ^{+0.06} _{-0.06}	38.48 ^{+0.06} _{-0.06}	4.35E+37	6.32E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4801	58751.903532984	565.5 ^{+0.7} _{-0.7}	5.7 ^{+0.4} _{-0.4}	209 ⁺²² ₋₂₂	1344	13.82 ^{+0.83} _{-0.83}	79.33 ^{+0.35} _{-0.35}	8.49E+37	3.73E+35
4802	58751.904160858	562.9 ^{+1.2} _{-1.2}	3.2 ^{+1.2} _{-1.2}	69 ⁺⁵ ₋₅	1365	2.92 ^{+0.02} _{-0.02}	9.28 ^{+0.03} _{-0.03}	1.05E+37	3.14E+34
4803	58751.904481634	562.6 ^{+1.4} _{-1.4}	4.2 ^{+1.4} _{-1.4}	53 ⁺²² ₋₂₂	1393	4.39 ^{+0.04} _{-0.04}	18.26 ^{+0.05} _{-0.05}	2.06E+37	5.60E+34
4804	58751.905602881	564.1 ^{+1.0} _{-1.0}	3.4 ^{+0.6} _{-0.6}	102 ⁺²⁸ ₋₂₈	1097	6.69 ^{+0.92} _{-0.92}	23.01 ^{+0.52} _{-0.52}	2.46E+37	5.52E+35
4805	58751.905606334	564.9 ^{+0.7} _{-0.7}	2.5 ^{+0.7} _{-0.7}	189 ⁺⁵ ₋₅	1213	6.23 ^{+0.05} _{-0.05}	15.31 ^{+0.04} _{-0.04}	1.73E+37	4.04E+34
4806	58751.905710646	561.6 ^{+0.4} _{-0.4}	6.2 ^{+0.7} _{-0.7}	95 ⁺³³ ₋₃₃	1336	7.23 ^{+0.69} _{-0.69}	44.46 ^{+0.49} _{-0.49}	4.76E+37	5.24E+35
4807	58751.908295392	563.8 ^{+0.9} _{-0.9}	7.2 ^{+1.0} _{-1.0}	81 ⁺¹⁶ ₋₁₆	1070	4.93 ^{+0.04} _{-0.04}	35.26 ^{+0.31} _{-0.31}	3.77E+37	3.33E+35
4808	58751.908750488	563.8 ^{+1.0} _{-1.0}	3.1 ^{+0.9} _{-0.9}	202 ⁺⁶⁴ ₋₆₄	1239	5.88 ^{+0.04} _{-0.04}	18.47 ^{+0.04} _{-0.04}	2.09E+37	4.78E+34
4809	58751.909153426	564.8 ^{+0.8} _{-0.8}	3.4 ^{+0.3} _{-0.3}	101 ⁺²⁵ ₋₂₅	1391	11.86 ^{+0.90} _{-0.90}	39.85 ^{+0.27} _{-0.27}	4.27E+37	2.89E+35
4810	58751.909457948	563.4 ^{+1.3} _{-1.3}	4.4 ^{+0.6} _{-0.6}	83 ⁺²² ₋₂₂	1396	6.40 ^{+0.76} _{-0.76}	28.22 ^{+0.47} _{-0.47}	3.02E+37	5.04E+35
4811	58751.911092489	564.0 ^{+1.1} _{-1.1}	7.9 ^{+2.2} _{-2.2}	121 ⁺⁷⁵ ₋₇₅	1241	5.91 ^{+0.04} _{-0.04}	46.59 ^{+0.10} _{-0.10}	5.26E+37	1.09E+35
4812	58751.911489037	564.2 ^{+0.5} _{-0.5}	2.0 ^{+0.1} _{-0.1}	212 ⁺²⁵ ₋₂₅	1389	23.13 ^{+1.23} _{-1.23}	45.57 ^{+0.15} _{-0.15}	4.88E+37	1.58E+35
4813	58751.911519235	564.6 ^{+1.0} _{-1.0}	6.8 ^{+0.5} _{-0.5}	155 ⁺¹⁷ ₋₁₇	1128	11.71 ^{+0.66} _{-0.66}	79.86 ^{+0.31} _{-0.31}	8.55E+37	3.32E+35
4814	58751.911519246	564.6 ^{+1.0} _{-1.0}	4.8 ^{+0.5} _{-0.5}	182 ⁺¹⁰ ₋₁₀	1105	16.23 ^{+0.55} _{-0.55}	77.90 ^{+0.28} _{-0.28}	8.34E+37	3.00E+35
4815	58751.911916742	564.1 ^{+0.7} _{-0.7}	3.0 ^{+0.3} _{-0.3}	103 ⁺⁶⁰ ₋₆₀	1400	13.74 ^{+1.07} _{-1.07}	41.63 ^{+0.30} _{-0.30}	4.46E+37	3.21E+35
4816	58751.912127346	566.1 ^{+0.7} _{-0.7}	3.6 ^{+0.5} _{-0.5}	282 ⁺²⁸ ₋₂₈	1328	11.70 ^{+1.59} _{-1.59}	41.77 ^{+0.86} _{-0.86}	4.47E+37	9.19E+35
4817	58751.912821056	564.2 ^{+0.6} _{-0.6}	3.8 ^{+0.7} _{-0.7}	166 ⁺³⁶ ₋₃₆	1130	5.64 ^{+0.84} _{-0.84}	21.54 ^{+0.57} _{-0.57}	2.31E+37	6.11E+35
4818	58751.912863844	562.9 ^{+1.2} _{-1.2}	2.6 ^{+0.7} _{-0.7}	153 ⁺⁵² ₋₅₂	1203	7.16 ^{+0.05} _{-0.05}	18.50 ^{+0.04} _{-0.04}	2.09E+37	4.15E+34
4819	58751.912864236	563.1 ^{+1.4} _{-1.4}	5.2 ^{+2.0} _{-2.0}	93 ⁺³³ ₋₃₃	1297	4.31 ^{+0.03} _{-0.03}	22.54 ^{+0.06} _{-0.06}	2.55E+37	7.19E+34
4820	58751.914502716	562.4 ^{+1.1} _{-1.1}	4.8 ^{+1.7} _{-1.7}	180 ⁺⁸ ₋₈	1145	4.84 ^{+0.04} _{-0.04}	23.14 ^{+0.06} _{-0.06}	2.61E+37	6.99E+34
4821	58751.915262320	564.1 ^{+1.2} _{-1.2}	8.3 ^{+4.1} _{-4.1}	221 ⁺⁶⁴ ₋₆₄	1235	4.51 ^{+0.03} _{-0.03}	37.39 ^{+0.13} _{-0.13}	4.23E+37	1.52E+35
4822	58751.915392156	564.8 ^{+0.8} _{-0.8}	5.8 ^{+0.7} _{-0.7}	107 ⁺¹⁸ ₋₁₈	1155	6.32 ^{+0.65} _{-0.65}	36.78 ^{+0.47} _{-0.47}	3.94E+37	5.08E+35
4823	58751.915628712	562.7 ^{+1.2} _{-1.2}	9.4 ^{+3.3} _{-3.3}	109 ⁺¹⁰⁰ ₋₁₀₀	1359	5.55 ^{+0.04} _{-0.04}	52.30 ^{+0.13} _{-0.13}	5.91E+37	1.52E+35
4824	58751.916031377	562.6 ^{+1.1} _{-1.1}	14.6 ^{+2.2} _{-2.2}	114 ⁺⁴⁸ ₋₄₈	1339	4.73 ^{+0.49} _{-0.49}	69.25 ^{+1.08} _{-1.08}	7.41E+37	1.15E+36
4825	58751.916033299	564.7 ^{+1.1} _{-1.1}	3.7 ^{+1.1} _{-1.1}	76 ⁺²⁸ ₋₂₈	1141	7.02 ^{+0.05} _{-0.05}	26.12 ^{+0.06} _{-0.06}	2.95E+37	6.53E+34
4826	58751.916095588	563.4 ^{+1.2} _{-1.2}	3.1 ^{+0.4} _{-0.4}	53 ⁺³¹ ₋₃₁	1344	7.52 ^{+0.90} _{-0.90}	23.31 ^{+0.40} _{-0.40}	2.50E+37	4.24E+35
4827	58751.917813569	564.3 ^{+1.1} _{-1.1}	6.4 ^{+0.6} _{-0.6}	113 ⁺⁴³ ₋₄₃	1403	7.52 ^{+0.62} _{-0.62}	48.05 ^{+0.40} _{-0.40}	5.14E+37	4.25E+35
4828	58751.917964858	563.8 ^{+0.5} _{-0.5}	4.5 ^{+0.4} _{-0.4}	150 ⁺²² ₋₂₂	1323	11.95 ^{+0.80} _{-0.80}	54.25 ^{+0.29} _{-0.29}	5.81E+37	3.08E+35
4829	58751.918252324	565.7 ^{+0.4} _{-0.4}	4.5 ^{+0.2} _{-0.2}	224 ⁺¹⁸ ₋₁₈	1221	17.55 ^{+0.79} _{-0.79}	79.15 ^{+0.19} _{-0.19}	8.47E+37	2.03E+35
4830	58751.918252334	565.7 ^{+0.4} _{-0.4}	3.4 ^{+0.6} _{-0.6}	209 ⁺¹⁷ ₋₁₇	1203	12.45 ^{+0.83} _{-0.83}	42.45 ^{+0.54} _{-0.54}	4.54E+37	5.78E+35
4831	58751.918691632	563.1 ^{+1.2} _{-1.2}	6.8 ^{+2.8} _{-2.8}	59 ⁺¹⁹ ₋₁₉	1358	4.25 ^{+0.03} _{-0.03}	29.07 ^{+0.09} _{-0.09}	3.28E+37	9.87E+34
4832	58751.919164805	562.2 ^{+0.8} _{-0.8}	5.9 ^{+0.7} _{-0.7}	198 ⁺⁹ ₋₉	1221	6.95 ^{+0.65} _{-0.65}	41.28 ^{+0.44} _{-0.44}	4.42E+37	4.66E+35
4833	58751.920065186	563.7 ^{+0.4} _{-0.4}	7.0 ^{+1.7} _{-1.7}	203 ⁺¹³⁵ ₋₁₃₅	1184	6.84 ^{+0.05} _{-0.05}	48.19 ^{+0.09} _{-0.09}	5.44E+37	9.72E+34
4834	58751.920149661	563.9 ^{+1.1} _{-1.1}	1.3 ^{+0.9} _{-0.9}	111 ⁺⁴¹ ₋₄₁	1405	3.21 ^{+1.51} _{-1.51}	4.30 ^{+1.40} _{-1.40}	4.60E+36	1.50E+36
4835	58751.920154136	563.9 ^{+1.1} _{-1.1}	2.5 ^{+1.1} _{-1.1}	106 ⁺⁴⁴ ₋₄₄	1399	3.57 ^{+1.23} _{-1.23}	8.82 ^{+1.30} _{-1.30}	9.44E+36	1.40E+36
4836	58751.920154201	563.9 ^{+1.1} _{-1.1}	11.0 ^{+1.6} _{-1.6}	80 ⁺³⁷ ₋₃₇	1418	6.15 ^{+0.54} _{-0.54}	67.53 ^{+0.88} _{-0.88}	7.23E+37	9.42E+35
4837	58751.922137033	561.7 ^{+1.2} _{-1.2}	1.8 ^{+0.7} _{-0.7}	53 ⁺⁵ ₋₅	1355	5.24 ^{+0.04} _{-0.04}	9.65 ^{+0.03} _{-0.03}	1.09E+37	3.19E+34
4838	58751.922386453	564.4 ^{+0.8} _{-0.8}	5.6 ^{+1.3} _{-1.3}	104 ⁺⁵ ₋₅	1114	5.86 ^{+0.04} _{-0.04}	33.12 ^{+0.06} _{-0.06}	3.74E+37	6.32E+34
4839	58752.848327157	563.7 ^{+1.3} _{-1.3}	3.2 ^{+0.5} _{-0.5}	242 ⁺³³ ₋₃₃	1356	13.39 ^{+0.16} _{-0.16}	43.04 ^{+0.60} _{-0.60}	4.61E+37	6.38E+35
4840	58752.849151400	563.9 ^{+1.1} _{-1.1}	5.4 ^{+0.4} _{-0.4}	209 ⁺¹⁷ ₋₁₇	1244	19.38 ^{+1.10} _{-1.10}	104.85 ^{+0.41} _{-0.41}	1.12E+38	4.36E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4841	58752.849151463	563.9 ^{+1.1} _{-1.1}	3.2 ^{+0.4} _{-0.4}	199 ⁺²⁰ ₋₂₀	1242	15.40 ^{+0.97} _{-0.97}	49.43 ^{+0.40} _{-0.40}	5.29E+37	4.26E+35
4842	58752.850359167	563.0 ^{+1.2} _{-1.2}	3.4 ^{+0.9} _{-0.9}	161 ⁺²⁰ ₋₂₀	1370	10.29 ^{+2.95} _{-2.95}	35.09 ^{+2.60} _{-2.60}	3.76E+37	2.78E+36
4843	58752.851014628	563.3 ^{+1.1} _{-1.1}	8.5 ^{+1.2} _{-1.2}	83 ⁺¹⁷ ₋₁₇	1105	7.59 ^{+0.09} _{-0.09}	64.58 ^{+0.88} _{-0.88}	6.91E+37	9.38E+35
4844	58752.851093220	563.7 ^{+0.7} _{-0.7}	4.2 ^{+0.6} _{-0.6}	111 ⁺³⁷ ₋₃₇	1303	9.61 ^{+1.12} _{-1.12}	40.84 ^{+0.66} _{-0.66}	4.37E+37	7.07E+35
4845	58752.851191024	563.4 ^{+1.2} _{-1.2}	4.1 ^{+0.7} _{-0.7}	66 ⁺³³ ₋₃₃	1164	9.30 ^{+0.11} _{-0.11}	38.01 ^{+0.07} _{-0.07}	4.30E+37	8.39E+34
4846	58752.851191499	563.9 ^{+1.3} _{-1.3}	5.8 ^{+0.5} _{-0.5}	157 ⁺¹⁹ ₋₁₉	1234	15.42 ^{+1.00} _{-1.00}	89.90 ^{+0.46} _{-0.46}	9.62E+37	4.92E+35
4847	58752.851779035	565.0 ^{+0.3} _{-0.3}	2.9 ^{+0.1} _{-0.1}	298 ⁺¹⁵ ₋₁₅	1347	47.32 ^{+1.59} _{-1.59}	135.34 ^{+0.17} _{-0.17}	1.45E+38	1.87E+35
4848	58752.851779513	563.6 ^{+1.2} _{-1.2}	3.6 ^{+0.2} _{-0.2}	306 ⁺²⁵ ₋₂₅	1275	30.52 ^{+1.32} _{-1.32}	110.48 ^{+0.25} _{-0.25}	1.18E+38	2.68E+35
4849	58752.851872177	564.2 ^{+0.1} _{-0.1}	2.2 ^{+0.1} _{-0.1}	381 ⁺¹⁹ ₋₁₉	1306	76.84 ^{+1.71} _{-1.71}	165.97 ^{+0.10} _{-0.10}	1.78E+38	1.10E+35
4850	58752.852055225	563.0 ^{+1.1} _{-1.1}	2.5 ^{+0.7} _{-0.7}	91 ⁺²⁷ ₋₂₇	1072	4.65 ^{+0.06} _{-0.06}	11.53 ^{+0.04} _{-0.04}	1.30E+37	4.37E+34
4851	58752.852282407	563.1 ^{+1.0} _{-1.0}	7.4 ^{+1.0} _{-1.0}	173 ⁺⁴² ₋₄₂	1231	8.30 ^{+0.10} _{-0.10}	61.22 ^{+0.09} _{-0.09}	6.92E+37	1.06E+35
4852	58752.852313938	562.9 ^{+1.3} _{-1.3}	3.6 ^{+0.3} _{-0.3}	169 ⁺⁴⁵ ₋₄₅	1385	16.49 ^{+1.29} _{-1.29}	59.86 ^{+0.44} _{-0.44}	6.41E+37	4.70E+35
4853	58752.853093441	565.2 ^{+0.9} _{-0.9}	4.7 ^{+0.6} _{-0.6}	66 ⁺⁴⁶ ₋₄₆	1288	11.15 ^{+0.13} _{-0.13}	52.71 ^{+0.07} _{-0.07}	5.96E+37	8.33E+34
4854	58752.853489529	563.5 ^{+1.2} _{-1.2}	7.1 ^{+1.0} _{-1.0}	113 ⁺⁴⁵ ₋₄₅	1399	3.08 ^{+0.04} _{-0.04}	21.80 ^{+0.29} _{-0.29}	2.33E+37	3.12E+35
4855	58752.853789135	566.1 ^{+0.4} _{-0.4}	6.2 ^{+0.2} _{-0.2}	421 ⁺¹⁶ ₋₁₆	1281	37.61 ^{+0.99} _{-0.99}	234.69 ^{+0.20} _{-0.20}	2.51E+38	2.12E+35
4856	58752.854276531	563.9 ^{+0.7} _{-0.7}	6.6 ^{+0.9} _{-0.9}	110 ⁺²⁰ ₋₂₀	1105	6.04 ^{+0.07} _{-0.07}	39.65 ^{+0.53} _{-0.53}	4.24E+37	5.63E+35
4857	58752.854640767	564.4 ^{+0.7} _{-0.7}	5.0 ^{+0.4} _{-0.4}	262 ⁺⁵¹ ₋₅₁	1323	18.13 ^{+1.14} _{-1.14}	90.83 ^{+0.43} _{-0.43}	9.72E+37	4.64E+35
4858	58752.854882696	563.6 ^{+1.1} _{-1.1}	1.6 ^{+0.5} _{-0.5}	173 ⁺⁴¹ ₋₄₁	1368	9.73 ^{+2.92} _{-2.92}	15.37 ^{+1.55} _{-1.55}	1.65E+37	1.66E+36
4859	58752.854882725	563.6 ^{+1.1} _{-1.1}	5.1 ^{+0.9} _{-0.9}	149 ⁺⁴¹ ₋₄₁	1399	10.91 ^{+1.20} _{-1.20}	55.75 ^{+1.09} _{-1.09}	5.97E+37	1.17E+36
4860	58752.854926757	564.3 ^{+1.1} _{-1.1}	5.4 ^{+0.6} _{-0.6}	146 ⁺¹⁹ ₋₁₉	1277	14.76 ^{+0.17} _{-0.17}	79.54 ^{+0.10} _{-0.10}	8.99E+37	1.14E+35
4861	58752.855430023	562.0 ^{+1.1} _{-1.1}	12.9 ^{+4.6} _{-4.6}	46 ⁺⁹ ₋₉	1077	4.18 ^{+0.05} _{-0.05}	53.73 ^{+0.22} _{-0.22}	6.07E+37	2.51E+35
4862	58752.855861954	563.2 ^{+1.2} _{-1.2}	5.0 ^{+0.6} _{-0.6}	107 ⁺²⁷ ₋₂₇	1144	12.45 ^{+0.14} _{-0.14}	61.78 ^{+0.09} _{-0.09}	6.98E+37	9.96E+34
4863	58752.855876403	563.4 ^{+1.3} _{-1.3}	4.4 ^{+0.5} _{-0.5}	201 ⁺³⁸ ₋₃₈	1317	12.82 ^{+1.13} _{-1.13}	56.54 ^{+0.52} _{-0.52}	6.05E+37	5.56E+35
4864	58752.856068057	561.8 ^{+0.6} _{-0.6}	8.0 ^{+2.0} _{-2.0}	227 ⁺⁴¹ ₋₄₁	1348	5.98 ^{+0.07} _{-0.07}	47.96 ^{+0.14} _{-0.14}	5.42E+37	1.55E+35
4865	58752.856460525	563.1 ^{+1.3} _{-1.3}	4.6 ^{+1.0} _{-1.0}	102 ⁺¹⁸ ₋₁₈	1174	6.70 ^{+0.08} _{-0.08}	31.15 ^{+0.07} _{-0.07}	3.52E+37	8.40E+34
4866	58752.857753701	562.6 ^{+1.2} _{-1.2}	8.0 ^{+1.0} _{-1.0}	63 ⁺¹⁹ ₋₁₉	1364	7.31 ^{+0.77} _{-0.77}	58.33 ^{+0.81} _{-0.81}	6.24E+37	8.65E+35
4867	58752.857829585	563.2 ^{+1.1} _{-1.1}	4.0 ^{+0.6} _{-0.6}	67 ⁺²² ₋₂₂	1071	4.63 ^{+0.05} _{-0.05}	18.51 ^{+0.24} _{-0.24}	1.98E+37	2.55E+35
4868	58752.857851453	563.6 ^{+1.1} _{-1.1}	7.0 ^{+1.6} _{-1.6}	137 ⁺⁴² ₋₄₂	1225	4.23 ^{+0.05} _{-0.05}	29.39 ^{+0.08} _{-0.08}	3.32E+37	8.67E+34
4869	58752.857851630	563.1 ^{+1.4} _{-1.4}	6.4 ^{+0.6} _{-0.6}	119 ⁺²⁷ ₋₂₇	1383	10.80 ^{+0.87} _{-0.87}	69.34 ^{+0.55} _{-0.55}	7.42E+37	5.87E+35
4870	58752.857937933	563.0 ^{+1.3} _{-1.3}	8.0 ^{+1.2} _{-1.2}	176 ⁺⁴⁷ ₋₄₇	1344	8.38 ^{+0.09} _{-0.09}	66.90 ^{+0.11} _{-0.11}	7.56E+37	1.30E+35
4871	58752.858219897	564.2 ^{+0.7} _{-0.7}	3.8 ^{+0.7} _{-0.7}	96 ⁺⁵⁰ ₋₅₀	1370	10.35 ^{+0.12} _{-0.12}	39.25 ^{+0.09} _{-0.09}	4.44E+37	9.62E+34
4872	58752.858247680	565.1 ^{+0.7} _{-0.7}	3.6 ^{+0.3} _{-0.3}	152 ⁺¹⁷ ₋₁₇	1131	16.21 ^{+0.18} _{-0.18}	58.14 ^{+0.06} _{-0.06}	6.57E+37	7.01E+34
4873	58752.858607807	563.2 ^{+1.4} _{-1.4}	5.2 ^{+0.6} _{-0.6}	166 ⁺²⁵ ₋₂₅	1211	9.88 ^{+1.00} _{-1.00}	51.87 ^{+0.64} _{-0.64}	5.55E+37	6.85E+35
4874	58752.859411876	562.8 ^{+1.2} _{-1.2}	4.2 ^{+1.4} _{-1.4}	63 ⁺⁴ ₋₄	1069	4.02 ^{+0.04} _{-0.04}	16.86 ^{+0.07} _{-0.07}	1.91E+37	7.35E+34
4875	58752.860358828	564.0 ^{+0.9} _{-0.9}	6.3 ^{+0.8} _{-0.8}	173 ⁺⁴¹ ₋₄₁	1151	8.77 ^{+0.90} _{-0.90}	54.99 ^{+0.71} _{-0.71}	5.89E+37	7.61E+35
4876	58752.860975346	563.6 ^{+0.0} _{-0.0}	3.2 ^{+0.0} _{-0.0}	470 ⁺¹⁶ ₋₁₆	1264	252.76 ^{+1.80} _{-1.80}	818.94 ^{+0.05} _{-0.05}	8.77E+38	5.78E+34
4877	58752.860975418	563.7 ^{+0.0} _{-0.0}	5.1 ^{+0.1} _{-0.1}	377 ⁺¹⁷ ₋₁₇	1192	90.75 ^{+1.51} _{-1.51}	464.64 ^{+0.17} _{-0.17}	4.97E+38	1.78E+35
4878	58752.860975543	564.0 ^{+0.1} _{-0.1}	4.8 ^{+0.2} _{-0.2}	414 ⁺³¹ ₋₃₁	1211	46.81 ^{+1.50} _{-1.50}	223.28 ^{+0.28} _{-0.28}	2.39E+38	3.05E+35
4879	58752.861051900	563.2 ^{+1.2} _{-1.2}	3.8 ^{+0.6} _{-0.6}	90 ⁺⁴⁵ ₋₄₅	1278	9.52 ^{+0.10} _{-0.10}	36.10 ^{+0.06} _{-0.06}	4.08E+37	6.86E+34
4880	58752.861354733	564.2 ^{+1.2} _{-1.2}	6.0 ^{+2.0} _{-2.0}	88 ⁺¹⁶ ₋₁₆	1383	6.77 ^{+0.07} _{-0.07}	40.63 ^{+0.15} _{-0.15}	4.59E+37	1.65E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4881	58752.861354868	564.1 ^{+0.4} _{-0.4}	4.8 ^{+0.4} _{-0.4}	391 ⁺²² ₋₂₂	1204	17.27 ^{+1.15} _{-1.15}	82.38 ^{+0.48} _{-0.48}	8.82E+37	5.17E+35
4882	58752.861354946	564.1 ^{+0.4} _{-0.4}	3.8 ^{+0.8} _{-0.8}	277 ⁺²⁶ ₋₂₆	1179	7.79 ^{+1.25} _{-1.25}	29.99 ^{+1.01} _{-1.01}	3.21E+37	1.08E+36
4883	58752.861356157	564.0 ^{+1.2} _{-1.2}	6.3 ^{+1.0} _{-1.0}	229 ⁺⁷ ₋₇	1381	13.96 ^{+2.99} _{-2.99}	87.39 ^{+2.87} _{-2.87}	9.35E+37	3.07E+36
4884	58752.861356253	564.0 ^{+1.2} _{-1.2}	14.1 ^{+3.9} _{-3.9}	158 ⁺³⁶ ₋₃₆	1372	8.56 ^{+0.99} _{-0.99}	120.95 ^{+3.84} _{-3.84}	1.29E+38	4.11E+36
4885	58752.861356589	562.0 ^{+1.2} _{-1.2}	9.4 ^{+1.8} _{-1.8}	147 ⁺²⁸ ₋₂₈	1249	7.50 ^{+0.08} _{-0.08}	70.13 ^{+0.15} _{-0.15}	7.93E+37	1.69E+35
4886	58752.861443015	563.0 ^{+1.4} _{-1.4}	2.8 ^{+0.2} _{-0.2}	118 ⁺¹⁶ ₋₁₆	1420	15.56 ^{+0.17} _{-0.17}	43.77 ^{+0.03} _{-0.03}	4.95E+37	3.79E+34
4887	58752.861538778	563.3 ^{+0.8} _{-0.8}	2.5 ^{+0.6} _{-0.6}	45 ⁺¹⁸ ₋₁₈	1100	7.32 ^{+0.08} _{-0.08}	18.16 ^{+0.05} _{-0.05}	2.05E+37	5.47E+34
4888	58752.862288610	563.3 ^{+1.4} _{-1.4}	10.9 ^{+2.4} _{-2.4}	116 ⁺³⁵ ₋₃₅	1178	8.88 ^{+0.10} _{-0.10}	96.84 ^{+0.23} _{-0.23}	1.09E+38	2.56E+35
4889	58752.862546814	562.0 ^{+0.5} _{-0.5}	3.3 ^{+0.6} _{-0.6}	126 ⁺²⁵ ₋₂₅	1419	12.20 ^{+0.13} _{-0.13}	40.54 ^{+0.08} _{-0.08}	4.58E+37	8.74E+34
4890	58752.863688869	562.6 ^{+1.2} _{-1.2}	5.1 ^{+0.7} _{-0.7}	91 ⁺³ ₋₃	1084	5.50 ^{+0.06} _{-0.06}	28.14 ^{+0.35} _{-0.35}	3.01E+37	3.69E+35
4891	58752.864777677	565.2 ^{+0.7} _{-0.7}	3.3 ^{+0.6} _{-0.6}	76 ⁺²⁰ ₋₂₀	1330	12.01 ^{+0.13} _{-0.13}	39.31 ^{+0.08} _{-0.08}	4.44E+37	8.78E+34
4892	58752.864859520	563.1 ^{+1.2} _{-1.2}	6.4 ^{+1.6} _{-1.6}	172 ⁺¹⁷ ₋₁₇	1128	8.97 ^{+0.10} _{-0.10}	57.08 ^{+0.15} _{-0.15}	6.45E+37	1.69E+35
4893	58752.866539821	564.3 ^{+1.0} _{-1.0}	5.2 ^{+1.0} _{-1.0}	111 ⁺⁴⁴ ₋₄₄	1315	11.26 ^{+0.12} _{-0.12}	58.27 ^{+0.12} _{-0.12}	6.58E+37	1.32E+35
4894	58752.867923764	563.1 ^{+0.0} _{-0.0}	3.7 ^{+0.1} _{-0.1}	493 ⁺⁵ ₋₅	1253	86.61 ^{+1.17} _{-1.17}	319.59 ^{+0.08} _{-0.08}	3.42E+38	8.77E+34
4895	58752.867923837	563.1 ^{+0.0} _{-0.0}	3.6 ^{+0.3} _{-0.3}	491 ⁺⁴ ₋₄	1254	71.14 ^{+5.56} _{-5.56}	253.97 ^{+1.67} _{-1.67}	2.72E+38	1.79E+36
4896	58752.867923870	563.1 ^{+0.0} _{-0.0}	3.2 ^{+0.3} _{-0.3}	495 ⁺³ ₋₃	1251	47.40 ^{+7.80} _{-7.80}	152.63 ^{+2.50} _{-2.50}	1.63E+38	2.67E+36
4897	58752.868443362	563.9 ^{+1.0} _{-1.0}	4.4 ^{+0.7} _{-0.7}	85 ⁺²⁶ ₋₂₆	1393	8.73 ^{+0.09} _{-0.09}	38.43 ^{+0.06} _{-0.06}	4.34E+37	7.22E+34
4898	58752.868651922	564.9 ^{+0.5} _{-0.5}	2.7 ^{+0.4} _{-0.4}	308 ⁺¹⁷ ₋₁₇	1334	12.32 ^{+0.13} _{-0.13}	33.62 ^{+0.05} _{-0.05}	3.80E+37	5.18E+34
4899	58752.868659405	563.1 ^{+1.3} _{-1.3}	6.5 ^{+1.6} _{-1.6}	64 ⁺²² ₋₂₂	1164	8.35 ^{+0.09} _{-0.09}	54.13 ^{+0.14} _{-0.14}	6.12E+37	1.54E+35
4900	58752.868786822	565.3 ^{+0.7} _{-0.7}	4.6 ^{+0.3} _{-0.3}	255 ⁺¹⁸ ₋₁₈	1353	15.08 ^{+0.86} _{-0.86}	69.22 ^{+0.27} _{-0.27}	7.41E+37	2.85E+35
4901	58752.868908503	565.0 ^{+0.1} _{-0.1}	3.5 ^{+0.1} _{-0.1}	378 ⁺²² ₋₂₂	1196	51.08 ^{+0.97} _{-0.97}	178.27 ^{+0.08} _{-0.08}	1.91E+38	8.31E+34
4902	58752.869624346	563.2 ^{+1.3} _{-1.3}	6.5 ^{+1.7} _{-1.7}	161 ⁺⁶ ₋₆	1165	7.48 ^{+0.08} _{-0.08}	48.42 ^{+0.13} _{-0.13}	5.47E+37	1.47E+35
4903	58752.869754701	562.8 ^{+1.1} _{-1.1}	3.5 ^{+1.2} _{-1.2}	129 ⁺³⁸ ₋₃₈	1394	7.17 ^{+0.07} _{-0.07}	25.42 ^{+0.09} _{-0.09}	2.87E+37	9.92E+34
4904	58752.871084418	562.6 ^{+0.8} _{-0.8}	5.4 ^{+1.2} _{-1.2}	83 ⁺¹³ ₋₁₃	1299	8.65 ^{+0.09} _{-0.09}	46.86 ^{+0.11} _{-0.11}	5.30E+37	1.20E+35
4905	58752.871649357	563.6 ^{+1.3} _{-1.3}	4.7 ^{+0.4} _{-0.4}	125 ⁺¹⁷ ₋₁₇	1360	11.45 ^{+0.80} _{-0.80}	53.93 ^{+0.32} _{-0.32}	5.77E+37	3.43E+35
4906	58752.871907122	562.4 ^{+1.1} _{-1.1}	1.4 ^{+0.1} _{-0.1}	113 ⁺¹⁹ ₋₁₉	1427	20.34 ^{+1.45} _{-1.45}	27.87 ^{+0.16} _{-0.16}	2.98E+37	1.71E+35
4907	58752.872048228	563.4 ^{+1.2} _{-1.2}	7.2 ^{+0.9} _{-0.9}	59 ⁺²⁰ ₋₂₀	1395	6.68 ^{+0.68} _{-0.68}	47.83 ^{+0.61} _{-0.61}	5.12E+37	6.55E+35
4908	58752.872466073	563.0 ^{+1.1} _{-1.1}	6.7 ^{+2.1} _{-2.1}	66 ⁺⁹ ₋₉	1123	4.98 ^{+0.05} _{-0.05}	33.44 ^{+0.11} _{-0.11}	3.78E+37	1.20E+35
4909	58752.872848504	563.6 ^{+0.7} _{-0.7}	9.1 ^{+2.4} _{-2.4}	70 ⁺³⁹ ₋₃₉	1074	7.84 ^{+0.08} _{-0.08}	71.11 ^{+0.19} _{-0.19}	8.04E+37	2.11E+35
4910	58752.872901497	562.6 ^{+0.9} _{-0.9}	0.4 ^{+0.2} _{-0.2}	116 ⁺²¹ ₋₂₁	1366	8.65 ^{+2.67} _{-2.67}	3.72 ^{+0.43} _{-0.43}	3.98E+36	4.57E+35
4911	58752.872901542	562.6 ^{+0.9} _{-0.9}	8.1 ^{+1.4} _{-1.4}	94 ⁺²⁴ ₋₂₄	1345	4.79 ^{+0.64} _{-0.64}	38.75 ^{+0.90} _{-0.90}	4.15E+37	9.59E+35
4912	58752.873335149	564.9 ^{+0.6} _{-0.6}	3.5 ^{+0.5} _{-0.5}	132 ⁺¹⁷ ₋₁₇	1415	8.37 ^{+1.03} _{-1.03}	29.13 ^{+0.53} _{-0.53}	3.12E+37	5.62E+35
4913	58752.873335588	564.9 ^{+1.3} _{-1.3}	3.8 ^{+0.4} _{-0.4}	252 ⁺¹⁴ ₋₁₄	1344	15.29 ^{+1.20} _{-1.20}	58.10 ^{+0.42} _{-0.42}	6.22E+37	4.50E+35
4914	58752.873335839	563.3 ^{+0.6} _{-0.6}	4.6 ^{+0.6} _{-0.6}	192 ⁺³⁶ ₋₃₆	1359	10.80 ^{+1.19} _{-1.19}	50.00 ^{+0.73} _{-0.73}	5.35E+37	7.77E+35
4915	58752.873737421	564.5 ^{+0.7} _{-0.7}	3.3 ^{+1.4} _{-1.4}	116 ⁺¹⁵ ₋₁₅	1247	5.21 ^{+0.05} _{-0.05}	17.23 ^{+0.07} _{-0.07}	1.95E+37	8.31E+34
4916	58752.873737961	562.9 ^{+1.3} _{-1.3}	10.2 ^{+6.1} _{-6.1}	50 ⁺¹⁰ ₋₁₀	1148	3.60 ^{+0.04} _{-0.04}	36.60 ^{+0.22} _{-0.22}	4.13E+37	2.46E+35
4917	58752.874440400	563.4 ^{+1.3} _{-1.3}	2.2 ^{+0.6} _{-0.6}	115 ⁺²⁰ ₋₂₀	1096	6.33 ^{+0.06} _{-0.06}	13.74 ^{+0.04} _{-0.04}	1.55E+37	4.19E+34
4918	58752.874592235	563.1 ^{+1.1} _{-1.1}	9.4 ^{+2.3} _{-2.3}	235 ⁺⁹² ₋₉₂	1229	6.00 ^{+0.06} _{-0.06}	56.18 ^{+0.14} _{-0.14}	6.34E+37	1.53E+35
4919	58752.875540587	564.7 ^{+0.1} _{-0.1}	6.5 ^{+1.6} _{-1.6}	64 ⁺¹⁰ ₋₁₀	1428	6.93 ^{+0.07} _{-0.07}	45.25 ^{+0.11} _{-0.11}	5.11E+37	1.23E+35
4920	58752.875596704	563.2 ^{+1.3} _{-1.3}	7.0 ^{+2.8} _{-2.8}	140 ⁺³⁴ ₋₃₄	1340	4.78 ^{+0.05} _{-0.05}	33.58 ^{+0.13} _{-0.13}	3.79E+37	1.50E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4921	58752.877119213	563.3 ^{+0.4} _{-0.4}	3.1 ^{+0.1} _{-0.1}	197 ⁺¹⁸ ₋₁₈	1394	28.86 ^{+1.03} _{-1.03}	90.04 ^{+0.13} _{-0.13}	9.64E+37	1.43E+35
4922	58752.878012099	563.4 ^{+1.1} _{-1.1}	12.1 ^{+3.9} _{-3.9}	118 ⁺¹⁷ ₋₁₇	1110	5.64 ^{+0.05} _{-0.05}	68.15 ^{+0.21} _{-0.21}	7.70E+37	2.38E+35
4923	58752.878105928	563.2 ^{+0.6} _{-0.6}	2.2 ^{+0.5} _{-0.5}	214 ⁺⁴ ₋₄	1264	12.40 ^{+1.37} _{-1.37}	27.53 ^{+0.66} _{-0.66}	2.95E+37	7.04E+35
4924	58752.878105958	563.2 ^{+0.6} _{-0.6}	2.2 ^{+1.1} _{-1.1}	152 ⁺¹⁹ ₋₁₉	1159	5.21 ^{+1.42} _{-1.42}	11.20 ^{+1.56} _{-1.56}	1.20E+37	1.67E+36
4925	58752.878106676	562.5 ^{+1.2} _{-1.2}	5.8 ^{+1.4} _{-1.4}	214 ⁺⁴ ₋₄	1264	6.12 ^{+0.06} _{-0.06}	35.57 ^{+0.08} _{-0.08}	4.02E+37	9.29E+34
4926	58752.878616855	563.2 ^{+1.3} _{-1.3}	2.9 ^{+0.7} _{-0.7}	57 ⁺⁹ ₋₉	1059	4.77 ^{+0.04} _{-0.04}	13.98 ^{+0.03} _{-0.03}	1.58E+37	3.81E+34
4927	58752.879121525	564.1 ^{+1.2} _{-1.2}	3.5 ^{+2.1} _{-2.1}	49 ⁺⁹ ₋₉	1376	2.98 ^{+0.03} _{-0.03}	10.31 ^{+0.06} _{-0.06}	1.17E+37	6.52E+34
4928	58752.879391509	563.1 ^{+1.1} _{-1.1}	3.1 ^{+0.8} _{-0.8}	50 ⁺²⁸ ₋₂₈	1392	6.93 ^{+0.07} _{-0.07}	21.33 ^{+0.05} _{-0.05}	2.41E+37	5.77E+34
4929	58752.879425839	565.7 ^{+0.3} _{-0.3}	3.1 ^{+0.1} _{-0.1}	383 ⁺¹⁷ ₋₁₇	1292	40.04 ^{+1.13} _{-1.13}	124.52 ^{+0.11} _{-0.11}	1.33E+38	1.21E+35
4930	58752.880274997	563.6 ^{+1.2} _{-1.2}	9.1 ^{+2.0} _{-2.0}	88 ⁺⁴² ₋₄₂	1093	6.91 ^{+0.07} _{-0.07}	62.63 ^{+0.13} _{-0.13}	7.08E+37	1.43E+35
4931	58752.881351316	563.4 ^{+0.4} _{-0.4}	3.6 ^{+0.5} _{-0.5}	104 ⁺¹⁶ ₋₁₆	1273	9.14 ^{+0.99} _{-0.99}	33.00 ^{+0.46} _{-0.46}	3.53E+37	4.87E+35
4932	58752.881564343	563.1 ^{+1.7} _{-1.7}	4.2 ^{+1.0} _{-1.0}	79 ⁺²⁵ ₋₂₅	1394	6.73 ^{+0.06} _{-0.06}	28.16 ^{+0.06} _{-0.06}	3.18E+37	6.69E+34
4933	58752.882159400	562.6 ^{+1.1} _{-1.1}	7.0 ^{+1.6} _{-1.6}	125 ⁺⁵⁰ ₋₅₀	1373	8.61 ^{+0.08} _{-0.08}	60.15 ^{+0.13} _{-0.13}	6.80E+37	1.42E+35
4934	58752.882411490	564.1 ^{+1.1} _{-1.1}	4.5 ^{+0.5} _{-0.5}	141 ⁺²² ₋₂₂	1160	9.32 ^{+0.93} _{-0.93}	41.75 ^{+0.50} _{-0.50}	4.47E+37	5.38E+35
4935	58752.883569718	564.9 ^{+0.7} _{-0.7}	3.6 ^{+0.6} _{-0.6}	99 ⁺³³ ₋₃₃	1393	9.70 ^{+0.09} _{-0.09}	34.53 ^{+0.06} _{-0.06}	3.90E+37	6.24E+34
4936	58752.884166475	562.7 ^{+1.4} _{-1.4}	4.9 ^{+1.3} _{-1.3}	115 ⁺¹³ ₋₁₃	1316	6.71 ^{+0.06} _{-0.06}	32.98 ^{+0.08} _{-0.08}	3.73E+37	9.24E+34
4937	58752.884921812	565.3 ^{+0.8} _{-0.8}	2.7 ^{+0.6} _{-0.6}	60 ⁺²⁰ ₋₂₀	1403	5.78 ^{+0.05} _{-0.05}	15.34 ^{+0.03} _{-0.03}	1.73E+37	3.38E+34
4938	58752.884921953	565.1 ^{+0.7} _{-0.7}	3.2 ^{+0.2} _{-0.2}	190 ⁺¹³ ₋₁₃	1394	23.19 ^{+1.18} _{-1.18}	73.05 ^{+0.22} _{-0.22}	7.82E+37	2.40E+35
4939	58752.885142591	563.8 ^{+0.6} _{-0.6}	2.6 ^{+0.3} _{-0.3}	144 ⁺³² ₋₃₂	1333	10.93 ^{+1.18} _{-1.18}	28.42 ^{+0.39} _{-0.39}	3.04E+37	4.17E+35
4940	58752.885247151	564.1 ^{+0.7} _{-0.7}	4.6 ^{+0.4} _{-0.4}	153 ⁺²⁰ ₋₂₀	1345	11.18 ^{+0.92} _{-0.92}	51.43 ^{+0.41} _{-0.41}	5.51E+37	4.43E+35
4941	58752.885454642	563.0 ^{+1.4} _{-1.4}	3.6 ^{+0.9} _{-0.9}	49 ⁺⁶⁰ ₋₆₀	1383	7.31 ^{+0.07} _{-0.07}	26.41 ^{+0.06} _{-0.06}	2.98E+37	6.27E+34
4942	58752.885567105	560.8 ^{+0.4} _{-0.4}	3.7 ^{+0.6} _{-0.6}	97 ⁺³¹ ₋₃₁	1397	9.03 ^{+0.08} _{-0.08}	33.38 ^{+0.05} _{-0.05}	3.77E+37	5.59E+34
4943	58752.885588128	563.9 ^{+1.1} _{-1.1}	6.2 ^{+0.6} _{-0.6}	270 ⁺⁵⁰ ₋₅₀	1241	15.26 ^{+0.14} _{-0.14}	93.89 ^{+0.08} _{-0.08}	1.06E+38	9.40E+34
4944	58752.886729964	563.1 ^{+1.1} _{-1.1}	9.9 ^{+1.2} _{-1.2}	189 ⁺⁴ ₋₄	1223	6.92 ^{+0.68} _{-0.68}	68.51 ^{+0.85} _{-0.85}	7.33E+37	9.10E+35
4945	58752.887356443	565.1 ^{+0.9} _{-0.9}	9.1 ^{+1.2} _{-1.2}	71 ⁺⁵⁰ ₋₅₀	1265	11.61 ^{+0.10} _{-0.10}	105.55 ^{+0.13} _{-0.13}	1.19E+38	1.43E+35
4946	58752.887357091	561.8 ^{+1.0} _{-1.0}	5.2 ^{+0.6} _{-0.6}	57 ⁺³⁶ ₋₃₆	1104	5.19 ^{+0.05} _{-0.05}	27.19 ^{+0.03} _{-0.03}	3.07E+37	3.10E+34
4947	58752.887809626	562.5 ^{+1.2} _{-1.2}	11.6 ^{+2.7} _{-2.7}	81 ⁺⁴⁶ ₋₄₆	1129	7.89 ^{+0.07} _{-0.07}	91.86 ^{+0.18} _{-0.18}	1.04E+38	2.08E+35
4948	58752.888057747	564.7 ^{+1.1} _{-1.1}	3.1 ^{+0.3} _{-0.3}	136 ⁺³⁴ ₋₃₄	1395	11.74 ^{+0.10} _{-0.10}	36.23 ^{+0.04} _{-0.04}	4.09E+37	4.03E+34
4949	58753.924999451	566.0 ^{+1.0} _{-1.0}	3.7 ^{+0.2} _{-0.2}	285 ⁺¹⁵ ₋₁₅	1342	23.37 ^{+0.17} _{-0.17}	86.02 ^{+0.04} _{-0.04}	9.72E+37	4.50E+34
4950	58753.925854307	561.9 ^{+0.8} _{-0.8}	5.5 ^{+1.0} _{-1.0}	171 ⁺⁸⁸ ₋₈₈	1279	4.76 ^{+0.75} _{-0.75}	26.32 ^{+0.79} _{-0.79}	2.82E+37	8.43E+35
4951	58753.926136545	563.1 ^{+1.3} _{-1.3}	4.9 ^{+1.4} _{-1.4}	152 ⁺⁹ ₋₉	1282	4.96 ^{+0.04} _{-0.04}	24.23 ^{+0.05} _{-0.05}	2.74E+37	5.78E+34
4952	58753.926186732	564.7 ^{+0.7} _{-0.7}	3.4 ^{+0.3} _{-0.3}	152 ⁺⁴⁶ ₋₄₆	1289	12.10 ^{+1.02} _{-1.02}	41.26 ^{+0.35} _{-0.35}	4.42E+37	3.71E+35
4953	58753.926271505	563.3 ^{+1.2} _{-1.2}	4.9 ^{+1.0} _{-1.0}	86 ⁺⁴¹ ₋₄₁	1387	8.24 ^{+0.06} _{-0.06}	40.68 ^{+0.06} _{-0.06}	4.60E+37	6.87E+34
4954	58753.926559307	563.8 ^{+1.2} _{-1.2}	5.8 ^{+0.6} _{-0.6}	121 ⁺³² ₋₃₂	1328	8.74 ^{+0.78} _{-0.78}	50.87 ^{+0.49} _{-0.49}	5.45E+37	5.26E+35
4955	58753.926559363	563.8 ^{+1.2} _{-1.2}	4.4 ^{+0.8} _{-0.8}	113 ⁺²⁶ ₋₂₆	1300	7.61 ^{+0.82} _{-0.82}	33.33 ^{+0.64} _{-0.64}	3.57E+37	6.85E+35
4956	58753.926769753	563.2 ^{+1.3} _{-1.3}	1.5 ^{+0.3} _{-0.3}	51 ⁺⁴ ₋₄	1386	11.33 ^{+0.09} _{-0.09}	17.43 ^{+0.02} _{-0.02}	1.97E+37	2.44E+34
4957	58753.927198260	564.0 ^{+1.2} _{-1.2}	2.7 ^{+0.3} _{-0.3}	111 ⁺⁴⁰ ₋₄₀	1385	11.89 ^{+1.08} _{-1.08}	32.58 ^{+0.31} _{-0.31}	3.49E+37	3.35E+35
4958	58753.927198289	564.0 ^{+1.2} _{-1.2}	2.5 ^{+0.3} _{-0.3}	140 ⁺⁵⁹ ₋₅₉	1336	10.04 ^{+1.12} _{-1.12}	25.50 ^{+0.35} _{-0.35}	2.73E+37	3.72E+35
4959	58753.927525077	563.2 ^{+0.0} _{-0.0}	3.0 ^{+0.0} _{-0.0}	495 ⁺⁵ ₋₅	1250	558.92 ^{+1.42} _{-1.42}	1699.12 ^{+0.01} _{-0.01}	1.82E+39	1.52E+34
4960	58753.927525170	563.2 ^{+0.0} _{-0.0}	6.2 ^{+0.2} _{-0.2}	479 ⁺³⁴ ₋₃₄	1244	33.08 ^{+1.03} _{-1.03}	206.09 ^{+0.25} _{-0.25}	2.21E+38	2.65E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
4961	58753.927525929	563.4 ^{+1.2} _{-1.2}	10.4 ^{+1.2} _{-1.2}	376 ⁺⁴³ ₋₄₃	1210	11.63 ^{+0.09} _{-0.09}	120.99 ^{+0.10} _{-0.10}	1.37E+38	1.16E+35
4962	58753.927526222	564.2 ^{+0.4} _{-0.4}	4.4 ^{+0.2} _{-0.2}	332 ⁺⁶ ₋₆	1181	20.44 ^{+0.90} _{-0.90}	89.32 ^{+0.21} _{-0.21}	9.56E+37	2.22E+35
4963	58753.927526255	564.2 ^{+0.5} _{-0.5}	4.0 ^{+0.3} _{-0.3}	313 ⁺⁷ ₋₇	1169	18.83 ^{+0.93} _{-0.93}	76.26 ^{+0.29} _{-0.29}	8.16E+37	3.09E+35
4964	58753.927526809	563.5 ^{+1.2} _{-1.2}	3.0 ^{+0.5} _{-0.5}	124 ⁺⁶⁸ ₋₆₈	1317	7.68 ^{+0.06} _{-0.06}	23.27 ^{+0.03} _{-0.03}	2.63E+37	3.57E+34
4965	58753.928119923	564.5 ^{+0.8} _{-0.8}	4.0 ^{+0.6} _{-0.6}	257 ⁺²⁰ ₋₂₀	1260	12.00 ^{+2.50} _{-2.50}	47.64 ^{+1.60} _{-1.60}	5.10E+37	1.71E+36
4966	58753.928759923	564.2 ^{+1.2} _{-1.2}	3.9 ^{+0.4} _{-0.4}	76 ⁺⁵⁰ ₋₅₀	1366	10.35 ^{+0.97} _{-0.97}	40.57 ^{+0.43} _{-0.43}	4.34E+37	4.57E+35
4967	58753.928846565	564.6 ^{+0.5} _{-0.5}	3.5 ^{+0.3} _{-0.3}	175 ⁺⁶⁰ ₋₆₀	1339	15.02 ^{+1.02} _{-1.02}	52.57 ^{+0.29} _{-0.29}	5.63E+37	3.06E+35
4968	58753.929267013	563.6 ^{+1.3} _{-1.3}	6.3 ^{+1.5} _{-1.5}	60 ⁺¹⁵ ₋₁₅	1354	6.65 ^{+0.05} _{-0.05}	41.88 ^{+0.08} _{-0.08}	4.73E+37	8.56E+34
4969	58753.929267199	563.7 ^{+1.3} _{-1.3}	2.1 ^{+0.5} _{-0.5}	64 ⁺³¹ ₋₃₁	1303	9.04 ^{+0.07} _{-0.07}	18.99 ^{+0.03} _{-0.03}	2.15E+37	3.80E+34
4970	58753.929919621	562.4 ^{+1.1} _{-1.1}	6.1 ^{+1.7} _{-1.7}	61 ⁺⁵ ₋₅	1334	4.84 ^{+0.04} _{-0.04}	29.50 ^{+0.06} _{-0.06}	3.33E+37	7.05E+34
4971	58753.930271047	563.4 ^{+0.5} _{-0.5}	5.0 ^{+0.8} _{-0.8}	136 ⁺¹² ₋₁₂	1093	5.79 ^{+0.73} _{-0.73}	28.95 ^{+0.55} _{-0.55}	3.10E+37	5.86E+35
4972	58753.930307294	562.6 ^{+1.2} _{-1.2}	4.1 ^{+0.9} _{-0.9}	49 ⁺¹³ ₋₁₃	1161	6.60 ^{+0.05} _{-0.05}	26.98 ^{+0.04} _{-0.04}	3.05E+37	4.85E+34
4973	58753.930307541	562.9 ^{+1.1} _{-1.1}	11.0 ^{+4.6} _{-4.6}	49 ⁺³ ₋₃	1102	4.28 ^{+0.03} _{-0.03}	47.30 ^{+0.15} _{-0.15}	5.34E+37	1.68E+35
4974	58753.930492573	563.2 ^{+1.3} _{-1.3}	8.6 ^{+3.3} _{-3.3}	111 ⁺⁴ ₋₄	1247	5.77 ^{+0.04} _{-0.04}	49.81 ^{+0.14} _{-0.14}	5.63E+37	1.63E+35
4975	58753.930811155	562.1 ^{+0.7} _{-0.7}	4.4 ^{+1.3} _{-1.3}	68 ⁺²⁷ ₋₂₇	1103	5.22 ^{+0.04} _{-0.04}	22.70 ^{+0.05} _{-0.05}	2.57E+37	6.09E+34
4976	58753.931544259	563.9 ^{+1.2} _{-1.2}	5.3 ^{+0.4} _{-0.4}	153 ⁺¹⁶ ₋₁₆	1411	11.26 ^{+0.75} _{-0.75}	59.68 ^{+0.32} _{-0.32}	6.39E+37	3.37E+35
4977	58753.931544262	563.9 ^{+1.2} _{-1.2}	4.9 ^{+0.6} _{-0.6}	158 ⁺¹⁵ ₋₁₅	1405	8.93 ^{+0.81} _{-0.81}	43.76 ^{+0.53} _{-0.53}	4.68E+37	5.64E+35
4978	58753.931923842	564.3 ^{+1.0} _{-1.0}	3.4 ^{+0.4} _{-0.4}	100 ⁺²³ ₋₂₃	1426	8.72 ^{+0.94} _{-0.94}	29.56 ^{+0.40} _{-0.40}	3.16E+37	4.33E+35
4979	58753.932214951	565.7 ^{+0.8} _{-0.8}	4.4 ^{+0.4} _{-0.4}	135 ⁺⁵⁹ ₋₅₉	1264	11.51 ^{+0.80} _{-0.80}	50.53 ^{+0.29} _{-0.29}	5.41E+37	3.08E+35
4980	58753.932390849	563.2 ^{+1.2} _{-1.2}	3.1 ^{+0.7} _{-0.7}	79 ⁺⁴⁵ ₋₄₅	1094	8.24 ^{+0.06} _{-0.06}	25.62 ^{+0.04} _{-0.04}	2.90E+37	4.96E+34
4981	58753.932593151	563.9 ^{+1.2} _{-1.2}	3.3 ^{+0.4} _{-0.4}	136 ⁺²⁵ ₋₂₅	1387	8.90 ^{+0.95} _{-0.95}	29.19 ^{+0.40} _{-0.40}	3.12E+37	4.27E+35
4982	58753.933766858	562.5 ^{+1.0} _{-1.0}	7.1 ^{+1.7} _{-1.7}	83 ⁺²⁹ ₋₂₉	1092	6.20 ^{+0.05} _{-0.05}	44.12 ^{+0.08} _{-0.08}	4.99E+37	9.28E+34
4983	58753.933796529	562.7 ^{+1.1} _{-1.1}	6.0 ^{+0.5} _{-0.5}	161 ⁺²² ₋₂₂	1396	10.08 ^{+0.72} _{-0.72}	60.48 ^{+0.37} _{-0.37}	6.47E+37	4.01E+35
4984	58753.933985959	563.7 ^{+1.2} _{-1.2}	7.1 ^{+0.6} _{-0.6}	255 ⁺¹⁸ ₋₁₈	1239	8.43 ^{+0.62} _{-0.62}	60.11 ^{+0.40} _{-0.40}	6.43E+37	4.31E+35
4985	58753.933986688	562.8 ^{+1.4} _{-1.4}	10.5 ^{+1.6} _{-1.6}	49 ⁺³² ₋₃₂	1379	4.41 ^{+0.52} _{-0.52}	46.44 ^{+0.85} _{-0.85}	4.97E+37	9.07E+35
4986	58753.934436428	563.1 ^{+1.4} _{-1.4}	4.5 ^{+1.8} _{-1.8}	118 ⁺¹⁰⁴ ₋₁₀₄	1361	4.69 ^{+0.04} _{-0.04}	21.16 ^{+0.07} _{-0.07}	2.39E+37	7.49E+34
4987	58753.934734762	563.5 ^{+1.3} _{-1.3}	2.9 ^{+0.1} _{-0.1}	150 ⁺⁶⁵ ₋₆₅	1403	70.43 ^{+1.10} _{-1.10}	202.13 ^{+0.07} _{-0.07}	2.16E+38	7.07E+34
4988	58753.934734810	564.1 ^{+0.2} _{-0.2}	3.0 ^{+0.1} _{-0.1}	350 ⁺²⁹ ₋₂₉	1319	61.66 ^{+0.48} _{-0.48}	183.73 ^{+0.04} _{-0.04}	2.07E+38	3.97E+34
4989	58753.934837873	563.4 ^{+1.4} _{-1.4}	7.1 ^{+0.8} _{-0.8}	172 ⁺⁴⁸ ₋₄₈	1381	6.80 ^{+0.64} _{-0.64}	48.55 ^{+0.53} _{-0.53}	5.20E+37	5.69E+35
4990	58753.934839353	563.3 ^{+1.2} _{-1.2}	10.9 ^{+4.9} _{-4.9}	61 ⁺³⁶ ₋₃₆	1095	4.09 ^{+0.03} _{-0.03}	44.68 ^{+0.16} _{-0.16}	5.05E+37	1.79E+35
4991	58753.936148886	563.5 ^{+1.4} _{-1.4}	3.3 ^{+0.5} _{-0.5}	129 ⁺¹¹ ₋₁₁	1075	7.25 ^{+0.90} _{-0.90}	23.63 ^{+0.43} _{-0.43}	2.53E+37	4.62E+35
4992	58753.936338134	562.8 ^{+1.3} _{-1.3}	4.6 ^{+1.1} _{-1.1}	120 ⁺²⁰ ₋₂₀	1077	7.58 ^{+0.06} _{-0.06}	35.06 ^{+0.07} _{-0.07}	3.96E+37	7.71E+34
4993	58753.936667391	563.6 ^{+1.1} _{-1.1}	6.3 ^{+1.1} _{-1.1}	112 ⁺³⁵ ₋₃₅	1188	5.10 ^{+0.72} _{-0.72}	32.08 ^{+0.78} _{-0.78}	3.43E+37	8.40E+35
4994	58753.936732452	563.1 ^{+1.3} _{-1.3}	3.5 ^{+0.9} _{-0.9}	91 ⁺²⁸ ₋₂₈	1095	6.70 ^{+0.05} _{-0.05}	23.51 ^{+0.05} _{-0.05}	2.66E+37	5.53E+34
4995	58753.937271821	564.4 ^{+0.7} _{-0.7}	2.6 ^{+1.0} _{-1.0}	86 ⁺¹⁹ ₋₁₉	1142	4.88 ^{+0.04} _{-0.04}	12.77 ^{+0.04} _{-0.04}	1.44E+37	4.40E+34
4996	58753.937350795	564.1 ^{+0.9} _{-0.9}	4.3 ^{+0.3} _{-0.3}	151 ⁺²⁴ ₋₂₄	1402	13.33 ^{+0.80} _{-0.80}	57.19 ^{+0.25} _{-0.25}	6.12E+37	2.65E+35
4997	58753.937350857	564.1 ^{+0.9} _{-0.9}	3.4 ^{+0.6} _{-0.6}	137 ⁺⁷² ₋₇₂	1318	12.34 ^{+0.91} _{-0.91}	42.57 ^{+0.51} _{-0.51}	4.56E+37	5.46E+35
4998	58753.937445845	564.6 ^{+0.6} _{-0.6}	2.9 ^{+0.4} _{-0.4}	107 ⁺⁴ ₋₄	1368	8.61 ^{+1.04} _{-1.04}	24.71 ^{+0.43} _{-0.43}	2.65E+37	4.56E+35
4999	58753.937876414	562.9 ^{+1.1} _{-1.1}	5.6 ^{+2.5} _{-2.5}	78 ⁺¹² ₋₁₂	1377	3.49 ^{+0.03} _{-0.03}	19.68 ^{+0.07} _{-0.07}	2.22E+37	8.02E+34
5000	58753.938368223	562.5 ^{+1.2} _{-1.2}	4.5 ^{+1.5} _{-1.5}	161 ⁺¹⁶ ₋₁₆	1319	5.71 ^{+0.05} _{-0.05}	25.51 ^{+0.07} _{-0.07}	2.88E+37	8.05E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5001	58753.938464735	564.4 ^{+1.0} _{-1.0}	2.6 ^{+0.4} _{-0.4}	92 ⁺²⁴ ₋₂₄	1206	9.72 ^{+1.31} _{-1.31}	25.27 ^{+0.54} _{-0.54}	2.71E+37	5.75E+35
5002	58753.938464872	564.8 ^{+0.8} _{-0.8}	7.4 ^{+3.0} _{-3.0}	354 ⁺⁵⁷ ₋₅₇	1272	5.68 ^{+0.05} _{-0.05}	41.84 ^{+0.14} _{-0.14}	4.73E+37	1.55E+35
5003	58753.938465094	562.3 ^{+1.0} _{-1.0}	6.3 ^{+3.0} _{-3.0}	109 ⁺⁴ ₋₄	1191	5.59 ^{+0.04} _{-0.04}	35.37 ^{+0.14} _{-0.14}	4.00E+37	1.53E+35
5004	58753.938680721	562.7 ^{+1.2} _{-1.2}	15.7 ^{+2.2} _{-2.2}	101 ⁺¹⁴ ₋₁₄	1101	5.97 ^{+0.57} _{-0.57}	93.91 ^{+1.26} _{-1.26}	1.01E+38	1.35E+36
5005	58753.938954463	563.5 ^{+1.4} _{-1.4}	7.4 ^{+0.6} _{-0.6}	140 ⁺¹⁵ ₋₁₅	1130	9.70 ^{+0.68} _{-0.68}	72.17 ^{+0.44} _{-0.44}	7.73E+37	4.73E+35
5006	58753.939040717	562.7 ^{+1.2} _{-1.2}	13.2 ^{+3.4} _{-3.4}	80 ⁺³³ ₋₃₃	1186	4.99 ^{+0.04} _{-0.04}	65.65 ^{+0.14} _{-0.14}	7.42E+37	1.59E+35
5007	58753.939288146	565.5 ^{+1.0} _{-1.0}	4.8 ^{+0.2} _{-0.2}	212 ⁺¹⁴ ₋₁₄	1258	20.63 ^{+0.90} _{-0.90}	99.23 ^{+0.23} _{-0.23}	1.06E+38	2.41E+35
5008	58753.939517704	564.1 ^{+0.1} _{-0.1}	2.8 ^{+0.0} _{-0.0}	362 ⁺³ ₋₃	1318	216.43 ^{+1.53} _{-1.53}	603.84 ^{+0.03} _{-0.03}	6.46E+38	3.28E+34
5009	58753.939822106	563.7 ^{+1.1} _{-1.1}	4.8 ^{+1.8} _{-1.8}	77 ⁺²⁷ ₋₂₇	1345	5.46 ^{+0.04} _{-0.04}	26.46 ^{+0.08} _{-0.08}	2.99E+37	8.71E+34
5010	58753.939897424	563.5 ^{+0.9} _{-0.9}	4.5 ^{+1.3} _{-1.3}	116 ⁺⁶³ ₋₆₃	1274	6.75 ^{+0.06} _{-0.06}	30.33 ^{+0.07} _{-0.07}	3.43E+37	8.03E+34
5011	58753.940304549	563.2 ^{+0.2} _{-0.2}	2.2 ^{+0.1} _{-0.1}	341 ⁺⁸ ₋₈	1329	54.91 ^{+1.24} _{-1.24}	121.35 ^{+0.07} _{-0.07}	1.30E+38	7.96E+34
5012	58753.940304576	563.2 ^{+0.2} _{-0.2}	1.4 ^{+0.2} _{-0.2}	297 ⁺¹⁹ ₋₁₉	1350	29.88 ^{+1.23} _{-1.23}	43.33 ^{+0.28} _{-0.28}	4.64E+37	3.03E+35
5013	58753.940400156	562.5 ^{+1.3} _{-1.3}	8.8 ^{+4.8} _{-4.8}	206 ⁺⁴ ₋₄	1237	3.63 ^{+0.03} _{-0.03}	31.89 ^{+0.14} _{-0.14}	3.60E+37	1.62E+35
5014	58753.940666838	564.1 ^{+0.1} _{-0.1}	1.8 ^{+0.0} _{-0.0}	362 ⁺⁶ ₋₆	1318	133.38 ^{+1.41} _{-1.41}	245.42 ^{+0.03} _{-0.03}	2.63E+38	3.02E+34
5015	58753.940705703	562.8 ^{+1.2} _{-1.2}	4.2 ^{+0.6} _{-0.6}	85 ⁺¹¹ ₋₁₁	1053	8.13 ^{+0.07} _{-0.07}	34.16 ^{+0.32} _{-0.32}	3.66E+37	3.45E+35
5016	58753.940720000	563.4 ^{+1.4} _{-1.4}	4.7 ^{+0.9} _{-0.9}	181 ⁺³⁴ ₋₃₄	1279	8.35 ^{+0.07} _{-0.07}	39.33 ^{+0.06} _{-0.06}	4.44E+37	6.64E+34
5017	58753.941145708	564.6 ^{+0.9} _{-0.9}	3.4 ^{+0.7} _{-0.7}	65 ⁺²⁵ ₋₂₅	1384	8.58 ^{+0.07} _{-0.07}	28.89 ^{+0.05} _{-0.05}	3.26E+37	5.72E+34
5018	58753.942964600	563.9 ^{+0.6} _{-0.6}	2.7 ^{+0.7} _{-0.7}	130 ⁺³¹ ₋₃₁	1288	7.36 ^{+0.06} _{-0.06}	20.15 ^{+0.04} _{-0.04}	2.28E+37	4.57E+34
5019	58753.943316624	564.2 ^{+1.0} _{-1.0}	5.1 ^{+1.1} _{-1.1}	86 ⁺⁵³ ₋₅₃	1298	8.09 ^{+0.07} _{-0.07}	41.10 ^{+0.07} _{-0.07}	4.64E+37	8.25E+34
5020	58753.943407108	562.9 ^{+1.2} _{-1.2}	3.7 ^{+1.3} _{-1.3}	95 ⁺⁵ ₋₅	1089	4.25 ^{+0.04} _{-0.04}	15.62 ^{+0.05} _{-0.05}	1.77E+37	5.10E+34
5021	58753.943440167	563.6 ^{+1.0} _{-1.0}	3.6 ^{+1.2} _{-1.2}	54 ⁺²⁵ ₋₂₅	1419	4.79 ^{+0.04} _{-0.04}	17.29 ^{+0.05} _{-0.05}	1.95E+37	5.38E+34
5022	58753.943596645	562.9 ^{+1.3} _{-1.3}	7.9 ^{+4.0} _{-4.0}	119 ⁺⁸⁵ ₋₈₅	1401	3.33 ^{+0.03} _{-0.03}	26.20 ^{+0.11} _{-0.11}	2.96E+37	1.27E+35
5023	58753.943596733	562.9 ^{+1.2} _{-1.2}	2.1 ^{+0.3} _{-0.3}	100 ⁺²³ ₋₂₃	1431	10.31 ^{+1.12} _{-1.12}	21.65 ^{+0.30} _{-0.30}	2.32E+37	3.24E+35
5024	58753.944413289	563.4 ^{+1.3} _{-1.3}	3.5 ^{+0.7} _{-0.7}	116 ⁺⁸⁶ ₋₈₆	1343	6.82 ^{+0.06} _{-0.06}	23.89 ^{+0.04} _{-0.04}	2.70E+37	4.33E+34
5025	58753.944456797	563.0 ^{+1.2} _{-1.2}	8.1 ^{+1.4} _{-1.4}	115 ⁺³³ ₋₃₃	1384	4.80 ^{+0.65} _{-0.65}	38.69 ^{+0.88} _{-0.88}	4.14E+37	9.46E+35
5026	58753.944635887	562.7 ^{+0.8} _{-0.8}	2.8 ^{+1.0} _{-1.0}	134 ⁺⁵ ₋₅	1375	5.04 ^{+0.04} _{-0.04}	14.02 ^{+0.04} _{-0.04}	1.58E+37	4.65E+34
5027	58753.944931580	565.5 ^{+0.6} _{-0.6}	4.7 ^{+0.3} _{-0.3}	231 ⁺²² ₋₂₂	1291	15.71 ^{+0.85} _{-0.85}	74.47 ^{+0.26} _{-0.26}	7.97E+37	2.82E+35
5028	58753.944932073	564.4 ^{+1.0} _{-1.0}	7.2 ^{+0.8} _{-0.8}	173 ⁺¹⁷ ₋₁₇	1368	8.82 ^{+0.74} _{-0.74}	63.77 ^{+0.56} _{-0.56}	6.83E+37	5.94E+35
5029	58753.945041192	562.0 ^{+0.0} _{-0.0}	7.5 ^{+0.0} _{-0.0}	497 ⁺¹ ₋₁	1251	176.20 ^{+1.00} _{-1.00}	1316.21 ^{+0.05} _{-0.05}	1.41E+39	5.35E+34
5030	58753.945430932	563.8 ^{+0.9} _{-0.9}	5.0 ^{+1.0} _{-1.0}	50 ⁺¹⁵ ₋₁₅	1374	7.10 ^{+0.06} _{-0.06}	35.55 ^{+0.06} _{-0.06}	4.02E+37	6.78E+34
5031	58753.945474200	563.4 ^{+1.2} _{-1.2}	9.8 ^{+2.9} _{-2.9}	132 ⁺⁶ ₋₆	1157	4.80 ^{+0.04} _{-0.04}	47.20 ^{+0.12} _{-0.12}	5.33E+37	1.37E+35
5032	58753.945811761	563.5 ^{+1.2} _{-1.2}	4.1 ^{+1.7} _{-1.7}	78 ⁺⁴ ₋₄	1340	6.27 ^{+0.05} _{-0.05}	25.84 ^{+0.09} _{-0.09}	2.92E+37	1.01E+35
5033	58753.946125913	562.8 ^{+1.1} _{-1.1}	4.3 ^{+0.4} _{-0.4}	134 ⁺¹⁶ ₋₁₆	1421	12.38 ^{+0.82} _{-0.82}	52.86 ^{+0.35} _{-0.35}	5.66E+37	3.77E+35
5034	58753.946125960	562.8 ^{+1.1} _{-1.1}	1.8 ^{+0.8} _{-0.8}	146 ⁺²³ ₋₂₃	1412	3.57 ^{+1.27} _{-1.27}	6.35 ^{+1.03} _{-1.03}	6.80E+36	1.10E+36
5035	58753.947220602	563.0 ^{+1.4} _{-1.4}	2.7 ^{+0.9} _{-0.9}	79 ⁺²⁷ ₋₂₇	1090	6.57 ^{+0.06} _{-0.06}	17.92 ^{+0.05} _{-0.05}	2.02E+37	6.02E+34
5036	58753.947271374	563.1 ^{+1.3} _{-1.3}	3.4 ^{+1.1} _{-1.1}	81 ⁺²⁸ ₋₂₈	1205	4.87 ^{+0.04} _{-0.04}	16.67 ^{+0.05} _{-0.05}	1.88E+37	5.44E+34
5037	58753.947443607	562.5 ^{+1.3} _{-1.3}	2.3 ^{+0.2} _{-0.2}	62 ⁺²³ ₋₂₃	1338	10.55 ^{+0.99} _{-0.99}	24.05 ^{+0.25} _{-0.25}	2.57E+37	2.65E+35
5038	58753.949479293	563.4 ^{+1.2} _{-1.2}	5.9 ^{+1.8} _{-1.8}	75 ⁺³¹ ₋₃₁	1375	5.00 ^{+0.04} _{-0.04}	29.52 ^{+0.08} _{-0.08}	3.34E+37	8.91E+34
5039	58753.949703367	564.2 ^{+0.7} _{-0.7}	3.9 ^{+1.4} _{-1.4}	67 ⁺²⁰ ₋₂₀	1381	5.10 ^{+0.04} _{-0.04}	19.80 ^{+0.06} _{-0.06}	2.24E+37	7.10E+34
5040	58753.950260261	563.7 ^{+1.2} _{-1.2}	3.9 ^{+0.7} _{-0.7}	84 ⁺²⁵ ₋₂₅	1430	8.31 ^{+0.07} _{-0.07}	32.36 ^{+0.06} _{-0.06}	3.66E+37	6.23E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5041	58753.950260443	563.3 ^{+1.3} _{-1.3}	3.3 ^{+1.0} _{-1.0}	82 ⁺²⁴ ₋₂₄	1354	7.67 ^{+0.07} _{-0.07}	25.15 ^{+0.07} _{-0.07}	2.84E+37	7.53E+34
5042	58753.950378713	562.0 ^{+1.0} _{-1.0}	8.5 ^{+3.5} _{-3.5}	72 ⁺²⁵ ₋₂₅	1185	4.13 ^{+0.04} _{-0.04}	34.95 ^{+0.13} _{-0.13}	3.95E+37	1.45E+35
5043	58753.950547623	564.4 ^{+1.2} _{-1.2}	7.4 ^{+0.6} _{-0.6}	229 ⁺³⁰ ₋₃₀	1247	9.47 ^{+0.65} _{-0.65}	70.27 ^{+0.41} _{-0.41}	7.52E+37	4.38E+35
5044	58753.950791631	562.6 ^{+1.2} _{-1.2}	6.5 ^{+1.8} _{-1.8}	119 ⁺⁸⁴ ₋₈₄	1227	5.51 ^{+0.05} _{-0.05}	36.00 ^{+0.09} _{-0.09}	4.07E+37	9.81E+34
5045	58753.950840501	563.2 ^{+1.2} _{-1.2}	5.5 ^{+1.4} _{-1.4}	111 ⁺⁴ ₋₄	1137	6.04 ^{+0.05} _{-0.05}	33.40 ^{+0.08} _{-0.08}	3.77E+37	8.82E+34
5046	58753.950926961	563.9 ^{+1.2} _{-1.2}	3.0 ^{+0.2} _{-0.2}	186 ⁺²⁶ ₋₂₆	1395	24.70 ^{+1.13} _{-1.13}	74.10 ^{+0.18} _{-0.18}	7.93E+37	1.94E+35
5047	58753.950926983	563.9 ^{+1.2} _{-1.2}	3.5 ^{+0.2} _{-0.2}	208 ⁺⁴⁰ ₋₄₀	1380	11.87 ^{+0.23} _{-0.23}	41.66 ^{+0.05} _{-0.05}	4.46E+37	5.66E+34
5048	58753.950980728	563.7 ^{+1.1} _{-1.1}	4.5 ^{+0.4} _{-0.4}	182 ⁺⁴⁷ ₋₄₇	1356	12.20 ^{+0.93} _{-0.93}	54.41 ^{+0.39} _{-0.39}	5.82E+37	4.18E+35
5049	58753.950980785	564.8 ^{+0.7} _{-0.7}	3.3 ^{+0.3} _{-0.3}	108 ⁺²⁸ ₋₂₈	1379	12.86 ^{+1.06} _{-1.06}	42.44 ^{+0.35} _{-0.35}	4.54E+37	3.74E+35
5050	58753.951058301	563.2 ^{+1.2} _{-1.2}	2.7 ^{+0.8} _{-0.8}	222 ⁺¹⁷ ₋₁₇	1204	5.56 ^{+1.37} _{-1.37}	14.79 ^{+1.12} _{-1.12}	1.58E+37	1.20E+36
5051	58753.951058359	563.2 ^{+1.2} _{-1.2}	5.8 ^{+1.0} _{-1.0}	221 ⁺²⁴ ₋₂₄	1160	8.88 ^{+0.83} _{-0.83}	51.68 ^{+0.80} _{-0.80}	5.53E+37	8.53E+35
5052	58754.982352481	563.4 ^{+1.2} _{-1.2}	3.5 ^{+0.5} _{-0.5}	208 ⁺³¹ ₋₃₁	1385	27.19 ^{+0.32} _{-0.32}	94.89 ^{+1.27} _{-1.27}	1.02E+38	1.36E+36
5053	58754.982737594	564.3 ^{+1.1} _{-1.1}	2.2 ^{+0.4} _{-0.4}	81 ⁺³⁵ ₋₃₅	1324	8.58 ^{+0.10} _{-0.10}	18.82 ^{+0.04} _{-0.04}	2.13E+37	4.01E+34
5054	58754.982997132	565.6 ^{+0.5} _{-0.5}	3.0 ^{+0.4} _{-0.4}	193 ⁺¹⁹ ₋₁₉	1396	22.41 ^{+1.61} _{-1.61}	67.01 ^{+0.72} _{-0.72}	7.17E+37	7.76E+35
5055	58754.982997169	565.6 ^{+0.5} _{-0.5}	2.7 ^{+0.4} _{-0.4}	304 ⁺¹⁷ ₋₁₇	1341	23.95 ^{+1.91} _{-1.91}	64.67 ^{+0.71} _{-0.71}	6.92E+37	7.57E+35
5056	58754.982997286	565.9 ^{+0.5} _{-0.5}	5.1 ^{+0.6} _{-0.6}	102 ⁺²⁴ ₋₂₄	1430	12.01 ^{+1.09} _{-1.09}	61.37 ^{+0.62} _{-0.62}	6.57E+37	6.65E+35
5057	58754.982997909	565.2 ^{+0.6} _{-0.6}	2.5 ^{+0.3} _{-0.3}	118 ⁺³⁸ ₋₃₈	1139	10.00 ^{+0.12} _{-0.12}	25.24 ^{+0.04} _{-0.04}	2.85E+37	4.52E+34
5058	58754.983118031	564.4 ^{+0.8} _{-0.8}	3.7 ^{+0.7} _{-0.7}	82 ⁺⁴ ₋₄	1337	7.60 ^{+0.09} _{-0.09}	28.03 ^{+0.07} _{-0.07}	3.17E+37	7.37E+34
5059	58754.983120848	562.1 ^{+1.2} _{-1.2}	6.7 ^{+2.3} _{-2.3}	88 ⁺⁵⁴ ₋₅₄	1253	3.99 ^{+0.05} _{-0.05}	26.88 ^{+0.11} _{-0.11}	3.04E+37	1.22E+35
5060	58754.983408425	562.4 ^{+1.2} _{-1.2}	7.1 ^{+1.2} _{-1.2}	124 ⁺²⁹ ₋₂₉	1408	6.42 ^{+0.08} _{-0.08}	45.70 ^{+0.09} _{-0.09}	5.16E+37	1.05E+35
5061	58754.983855001	563.4 ^{+1.0} _{-1.0}	1.8 ^{+0.6} _{-0.6}	54 ⁺⁴ ₋₄	1404	3.65 ^{+0.04} _{-0.04}	6.68 ^{+0.02} _{-0.02}	7.54E+36	2.71E+34
5062	58754.983855142	563.1 ^{+0.6} _{-0.6}	2.5 ^{+0.7} _{-0.7}	262 ⁺¹² ₋₁₂	1310	5.20 ^{+0.06} _{-0.06}	13.17 ^{+0.04} _{-0.04}	1.49E+37	4.86E+34
5063	58754.983987884	564.9 ^{+0.8} _{-0.8}	4.2 ^{+0.7} _{-0.7}	72 ⁺⁴⁸ ₋₄₈	1381	8.73 ^{+0.10} _{-0.10}	36.51 ^{+0.07} _{-0.07}	4.13E+37	8.01E+34
5064	58754.984207170	565.4 ^{+0.6} _{-0.6}	4.2 ^{+0.6} _{-0.6}	100 ⁺¹⁹ ₋₁₉	1368	10.55 ^{+0.13} _{-0.13}	44.85 ^{+0.08} _{-0.08}	5.07E+37	8.53E+34
5065	58754.984623493	564.2 ^{+1.0} _{-1.0}	2.5 ^{+0.5} _{-0.5}	75 ⁺⁵ ₋₅	1388	6.25 ^{+0.07} _{-0.07}	15.87 ^{+0.04} _{-0.04}	1.79E+37	4.04E+34
5066	58754.984623656	563.5 ^{+1.2} _{-1.2}	2.1 ^{+1.1} _{-1.1}	46 ⁺⁵ ₋₅	1438	2.91 ^{+0.04} _{-0.04}	6.24 ^{+0.04} _{-0.04}	7.05E+36	4.47E+34
5067	58754.984705268	563.6 ^{+1.2} _{-1.2}	5.5 ^{+1.8} _{-1.8}	106 ⁺¹⁵ ₋₁₅	1432	4.75 ^{+0.06} _{-0.06}	26.07 ^{+0.10} _{-0.10}	2.95E+37	1.17E+35
5068	58754.984821929	563.3 ^{+1.3} _{-1.3}	5.4 ^{+0.9} _{-0.9}	92 ⁺⁷³ ₋₇₃	1249	9.84 ^{+0.12} _{-0.12}	53.21 ^{+0.10} _{-0.10}	6.01E+37	1.17E+35
5069	58754.985061828	565.1 ^{+0.9} _{-0.9}	3.1 ^{+0.3} _{-0.3}	131 ⁺²³ ₋₂₃	1167	11.95 ^{+0.14} _{-0.14}	37.07 ^{+0.05} _{-0.05}	4.19E+37	5.63E+34
5070	58754.985151552	563.1 ^{+1.1} _{-1.1}	3.9 ^{+0.6} _{-0.6}	61 ⁺¹⁹ ₋₁₉	1342	8.49 ^{+1.19} _{-1.19}	33.28 ^{+0.77} _{-0.77}	3.56E+37	8.28E+35
5071	58754.985264122	563.3 ^{+1.2} _{-1.2}	2.9 ^{+0.9} _{-0.9}	165 ⁺⁴⁷ ₋₄₇	1399	7.83 ^{+1.98} _{-1.98}	22.63 ^{+1.80} _{-1.80}	2.42E+37	1.93E+36
5072	58754.985264169	563.3 ^{+1.2} _{-1.2}	4.5 ^{+1.0} _{-1.0}	195 ⁺⁵⁵ ₋₅₅	1394	11.42 ^{+1.18} _{-1.18}	51.05 ^{+1.18} _{-1.18}	5.46E+37	1.26E+36
5073	58754.985264438	564.4 ^{+0.5} _{-0.5}	3.8 ^{+1.1} _{-1.1}	63 ⁺¹⁹⁸ ₋₁₉₈	1252	5.27 ^{+0.06} _{-0.06}	19.88 ^{+0.07} _{-0.07}	2.25E+37	7.75E+34
5074	58754.985264890	564.2 ^{+1.3} _{-1.3}	5.7 ^{+0.7} _{-0.7}	100 ⁺¹⁸ ₋₁₈	1355	10.71 ^{+1.07} _{-1.07}	60.62 ^{+0.73} _{-0.73}	6.49E+37	7.79E+35
5075	58754.985408374	563.7 ^{+1.2} _{-1.2}	3.8 ^{+0.7} _{-0.7}	94 ⁺³⁹ ₋₃₉	1370	7.28 ^{+0.09} _{-0.09}	27.71 ^{+0.06} _{-0.06}	3.13E+37	6.84E+34
5076	58754.985538332	562.1 ^{+1.2} _{-1.2}	2.7 ^{+0.8} _{-0.8}	72 ⁺⁴ ₋₄	1400	5.96 ^{+0.07} _{-0.07}	16.27 ^{+0.06} _{-0.06}	1.84E+37	6.38E+34
5077	58754.985592877	564.3 ^{+1.3} _{-1.3}	4.4 ^{+0.3} _{-0.3}	185 ⁺⁷ ₋₇	1406	31.82 ^{+1.19} _{-1.19}	138.42 ^{+0.32} _{-0.32}	1.48E+38	3.44E+35
5078	58754.985613562	565.3 ^{+0.4} _{-0.4}	2.5 ^{+0.3} _{-0.3}	74 ⁺⁴⁶ ₋₄₆	1296	13.14 ^{+0.16} _{-0.16}	33.41 ^{+0.05} _{-0.05}	3.77E+37	5.34E+34
5079	58754.985774760	565.6 ^{+0.4} _{-0.4}	3.0 ^{+0.3} _{-0.3}	141 ⁺³⁹ ₋₃₉	1392	18.37 ^{+1.35} _{-1.35}	55.84 ^{+0.35} _{-0.35}	5.98E+37	3.76E+35
5080	58754.985788756	564.8 ^{+0.6} _{-0.6}	3.4 ^{+0.4} _{-0.4}	172 ⁺⁶ ₋₆	1338	14.22 ^{+1.33} _{-1.33}	48.49 ^{+0.51} _{-0.51}	5.19E+37	5.41E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5081	58754.985845165	563.0 ^{+1.1} _{-1.1}	4.4 ^{+0.8} _{-0.8}	108 ⁺³⁸ ₋₃₈	1370	7.02 ^{+0.09} _{-0.09}	31.21 ^{+0.07} _{-0.07}	3.53E+37	7.38E+34
5082	58754.986359339	563.3 ^{+1.0} _{-1.0}	4.3 ^{+1.1} _{-1.1}	89 ⁺⁴ ₋₄	1384	5.53 ^{+0.07} _{-0.07}	23.81 ^{+0.07} _{-0.07}	2.69E+37	7.96E+34
5083	58754.986659778	565.6 ^{+0.4} _{-0.4}	3.4 ^{+0.5} _{-0.5}	59 ⁺²³ ₋₂₃	1366	11.43 ^{+0.14} _{-0.14}	39.06 ^{+0.07} _{-0.07}	4.41E+37	8.43E+34
5084	58754.987060425	563.8 ^{+1.2} _{-1.2}	2.9 ^{+0.9} _{-0.9}	59 ⁺¹⁵ ₋₁₅	1435	6.37 ^{+0.08} _{-0.08}	18.67 ^{+0.07} _{-0.07}	2.11E+37	7.64E+34
5085	58754.987233869	563.1 ^{+1.2} _{-1.2}	7.6 ^{+0.8} _{-0.8}	132 ⁺²⁸ ₋₂₈	1396	10.91 ^{+0.89} _{-0.89}	83.24 ^{+0.69} _{-0.69}	8.91E+37	7.43E+35
5086	58754.987607724	563.9 ^{+0.8} _{-0.8}	4.0 ^{+2.4} _{-2.4}	164 ⁺¹⁶ ₋₁₆	1216	7.16 ^{+8.02} _{-8.02}	28.50 ^{+19.33} _{-19.33}	3.05E+37	2.07E+37
5087	58754.987607769	563.9 ^{+0.8} _{-0.8}	7.8 ^{+4.3} _{-4.3}	103 ⁺²⁹ ₋₂₉	1162	7.10 ^{+3.30} _{-3.30}	55.02 ^{+14.32} _{-14.32}	5.89E+37	1.53E+37
5088	58754.987805720	563.4 ^{+1.2} _{-1.2}	8.2 ^{+2.0} _{-2.0}	136 ⁺²² ₋₂₂	1121	6.79 ^{+0.08} _{-0.08}	55.37 ^{+0.16} _{-0.16}	6.26E+37	1.85E+35
5089	58754.988129430	565.1 ^{+0.8} _{-0.8}	4.2 ^{+0.5} _{-0.5}	112 ⁺⁴⁴ ₋₄₄	1124	11.14 ^{+0.14} _{-0.14}	46.41 ^{+0.07} _{-0.07}	5.24E+37	8.08E+34
5090	58754.988516316	563.2 ^{+1.3} _{-1.3}	1.4 ^{+0.6} _{-0.6}	218 ⁺²⁸ ₋₂₈	1359	2.79 ^{+0.03} _{-0.03}	3.80 ^{+0.02} _{-0.02}	4.29E+36	2.17E+34
5091	58754.988516557	565.3 ^{+0.9} _{-0.9}	4.1 ^{+0.6} _{-0.6}	174 ⁺³¹ ₋₃₁	1375	10.32 ^{+0.13} _{-0.13}	42.03 ^{+0.07} _{-0.07}	4.75E+37	7.95E+34
5092	58754.988627901	564.0 ^{+0.7} _{-0.7}	3.6 ^{+0.4} _{-0.4}	170 ⁺¹⁵ ₋₁₅	1207	14.38 ^{+1.21} _{-1.21}	51.62 ^{+0.44} _{-0.44}	5.53E+37	4.66E+35
5093	58754.988765980	564.7 ^{+1.0} _{-1.0}	3.8 ^{+0.4} _{-0.4}	143 ⁺²⁴ ₋₂₄	1376	12.89 ^{+1.27} _{-1.27}	49.24 ^{+0.57} _{-0.57}	5.27E+37	6.12E+35
5094	58754.989272290	562.7 ^{+0.9} _{-0.9}	3.2 ^{+1.0} _{-1.0}	64 ⁺³ ₋₃	1392	4.03 ^{+0.05} _{-0.05}	12.98 ^{+0.05} _{-0.05}	1.47E+37	5.60E+34
5095	58754.989389243	564.9 ^{+0.8} _{-0.8}	2.6 ^{+0.5} _{-0.5}	83 ⁺⁵² ₋₅₂	1340	8.50 ^{+0.10} _{-0.10}	22.04 ^{+0.05} _{-0.05}	2.49E+37	5.46E+34
5096	58754.989791831	562.7 ^{+1.3} _{-1.3}	6.6 ^{+1.7} _{-1.7}	68 ⁺⁷ ₋₇	1149	6.61 ^{+0.08} _{-0.08}	43.73 ^{+0.14} _{-0.14}	4.94E+37	1.56E+35
5097	58754.989830560	564.5 ^{+1.0} _{-1.0}	3.8 ^{+0.6} _{-0.6}	105 ⁺³⁶ ₋₃₆	1165	7.95 ^{+1.15} _{-1.15}	30.13 ^{+0.75} _{-0.75}	3.23E+37	8.00E+35
5098	58754.990374512	563.0 ^{+1.4} _{-1.4}	6.3 ^{+1.2} _{-1.2}	52 ⁺⁴⁴ ₋₄₄	1387	6.31 ^{+0.08} _{-0.08}	39.86 ^{+0.09} _{-0.09}	4.50E+37	1.04E+35
5099	58754.990755483	563.4 ^{+1.1} _{-1.1}	4.9 ^{+1.0} _{-1.0}	87 ⁺³² ₋₃₂	1426	7.14 ^{+0.09} _{-0.09}	34.94 ^{+0.09} _{-0.09}	3.95E+37	1.05E+35
5100	58754.990831032	564.7 ^{+0.4} _{-0.4}	1.3 ^{+0.3} _{-0.3}	247 ⁺³¹ ₋₃₁	1268	22.19 ^{+1.23} _{-1.23}	29.73 ^{+0.42} _{-0.42}	3.18E+37	4.48E+35
5101	58754.990831045	564.7 ^{+0.4} _{-0.4}	2.4 ^{+0.2} _{-0.2}	308 ⁺²⁷ ₋₂₇	1244	24.00 ^{+1.42} _{-1.42}	58.32 ^{+0.24} _{-0.24}	6.24E+37	2.58E+35
5102	58754.991290068	564.3 ^{+0.7} _{-0.7}	4.1 ^{+0.9} _{-0.9}	57 ⁺⁴⁰ ₋₄₀	1315	8.95 ^{+0.11} _{-0.11}	36.82 ^{+0.10} _{-0.10}	4.16E+37	1.15E+35
5103	58754.991573940	562.4 ^{+1.4} _{-1.4}	8.7 ^{+2.4} _{-2.4}	61 ⁺¹⁴ ₋₁₄	1402	4.47 ^{+0.06} _{-0.06}	39.00 ^{+0.14} _{-0.14}	4.40E+37	1.55E+35
5104	58754.991574092	562.4 ^{+1.5} _{-1.5}	2.6 ^{+1.1} _{-1.1}	93 ⁺³¹ ₋₃₁	1422	3.79 ^{+0.05} _{-0.05}	9.98 ^{+0.05} _{-0.05}	1.13E+37	5.85E+34
5105	58754.991649480	562.9 ^{+1.0} _{-1.0}	4.8 ^{+1.1} _{-1.1}	241 ⁺³ ₋₃	1252	7.81 ^{+0.10} _{-0.10}	37.65 ^{+0.11} _{-0.11}	4.25E+37	1.19E+35
5106	58754.991736425	564.7 ^{+0.8} _{-0.8}	3.6 ^{+0.4} _{-0.4}	100 ⁺⁴¹ ₋₄₁	1323	14.95 ^{+1.29} _{-1.29}	54.27 ^{+0.54} _{-0.54}	5.81E+37	5.80E+35
5107	58754.991736509	564.6 ^{+1.2} _{-1.2}	6.1 ^{+0.4} _{-0.4}	345 ⁺²⁶ ₋₂₆	1326	20.46 ^{+1.05} _{-1.05}	124.19 ^{+0.45} _{-0.45}	1.33E+38	4.83E+35
5108	58754.992551378	563.2 ^{+1.2} _{-1.2}	1.6 ^{+0.3} _{-0.3}	108 ⁺⁶³ ₋₆₃	1139	12.69 ^{+1.89} _{-1.89}	19.92 ^{+0.51} _{-0.51}	2.13E+37	5.46E+35
5109	58754.992551696	562.6 ^{+1.2} _{-1.2}	3.9 ^{+1.5} _{-1.5}	74 ⁺¹² ₋₁₂	1225	3.68 ^{+0.05} _{-0.05}	14.19 ^{+0.07} _{-0.07}	1.60E+37	7.84E+34
5110	58754.992785525	563.1 ^{+1.1} _{-1.1}	6.1 ^{+1.3} _{-1.3}	91 ⁺⁴⁶ ₋₄₆	1311	4.01 ^{+0.05} _{-0.05}	24.59 ^{+0.06} _{-0.06}	2.78E+37	7.28E+34
5111	58754.993209626	565.0 ^{+0.3} _{-0.3}	3.1 ^{+0.4} _{-0.4}	92 ⁺²⁶ ₋₂₆	1422	13.50 ^{+1.39} _{-1.39}	42.25 ^{+0.53} _{-0.53}	4.52E+37	5.65E+35
5112	58754.994095402	564.2 ^{+0.4} _{-0.4}	2.4 ^{+0.4} _{-0.4}	98 ⁺⁴⁵ ₋₄₅	1207	9.96 ^{+1.53} _{-1.53}	23.61 ^{+0.66} _{-0.66}	2.53E+37	7.04E+35
5113	58754.994098076	562.3 ^{+1.1} _{-1.1}	7.0 ^{+1.1} _{-1.1}	238 ⁺²⁸ ₋₂₈	1298	7.46 ^{+0.93} _{-0.93}	52.37 ^{+1.00} _{-1.00}	5.61E+37	1.08E+36
5114	58754.994114298	563.4 ^{+1.1} _{-1.1}	5.5 ^{+1.1} _{-1.1}	172 ⁺³⁶ ₋₃₆	1380	9.26 ^{+0.12} _{-0.12}	50.90 ^{+0.13} _{-0.13}	5.75E+37	1.49E+35
5115	58754.994610723	564.0 ^{+0.9} _{-0.9}	2.0 ^{+0.3} _{-0.3}	126 ⁺⁵³ ₋₅₃	1368	7.01 ^{+0.09} _{-0.09}	13.76 ^{+0.02} _{-0.02}	1.55E+37	2.64E+34
5116	58754.994803184	564.2 ^{+1.0} _{-1.0}	4.0 ^{+1.8} _{-1.8}	57 ⁺⁴ ₋₄	1377	3.46 ^{+0.04} _{-0.04}	13.72 ^{+0.08} _{-0.08}	1.55E+37	8.90E+34
5117	58754.994946798	563.5 ^{+1.1} _{-1.1}	3.3 ^{+0.4} _{-0.4}	129 ⁺³⁷ ₋₃₇	1204	10.25 ^{+0.13} _{-0.13}	34.14 ^{+0.06} _{-0.06}	3.86E+37	6.45E+34
5118	58754.995308866	563.7 ^{+1.1} _{-1.1}	3.3 ^{+0.3} _{-0.3}	149 ⁺²⁵ ₋₂₅	1400	18.78 ^{+1.39} _{-1.39}	61.60 ^{+0.40} _{-0.40}	6.59E+37	4.32E+35
5119	58754.995583487	563.4 ^{+0.4} _{-0.4}	4.1 ^{+0.5} _{-0.5}	155 ⁺⁴⁴ ₋₄₄	1274	11.45 ^{+1.18} _{-1.18}	46.94 ^{+0.59} _{-0.59}	5.03E+37	6.32E+35
5120	58754.995583861	564.9 ^{+1.1} _{-1.1}	2.4 ^{+0.7} _{-0.7}	291 ⁺³¹ ₋₃₁	1172	5.30 ^{+0.05} _{-0.05}	12.90 ^{+0.03} _{-0.03}	1.46E+37	3.93E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5121	58754.995716832	561.8 ^{+1.2} _{-1.2}	3.7 ^{+1.4} _{-1.4}	83 ⁺⁶⁶ ₋₆₆	1109	4.77 ^{+0.05} _{-0.05}	17.61 ^{+0.07} _{-0.07}	1.99E+37	7.51E+34
5122	58754.995859405	564.4 ^{+0.9} _{-0.9}	5.6 ^{+1.2} _{-1.2}	407 ⁺¹⁹ ₋₁₉	1239	8.31 ^{+0.08} _{-0.08}	46.41 ^{+0.09} _{-0.09}	5.24E+37	1.07E+35
5123	58754.995872526	565.2 ^{+0.2} _{-0.2}	4.3 ^{+2.1} _{-2.1}	405 ⁺²¹ ₋₂₁	1240	4.39 ^{+0.04} _{-0.04}	18.80 ^{+0.09} _{-0.09}	2.12E+37	9.86E+34
5124	58754.996299629	562.0 ^{+0.7} _{-0.7}	4.2 ^{+0.8} _{-0.8}	162 ⁺²⁶ ₋₂₆	1203	7.83 ^{+0.08} _{-0.08}	32.63 ^{+0.06} _{-0.06}	3.69E+37	6.89E+34
5125	58754.996491163	565.4 ^{+0.8} _{-0.8}	4.3 ^{+0.4} _{-0.4}	236 ⁺⁵ ₋₅	1241	15.30 ^{+0.15} _{-0.15}	65.14 ^{+0.06} _{-0.06}	7.36E+37	7.26E+34
5126	58754.996824927	563.4 ^{+1.3} _{-1.3}	3.8 ^{+0.8} _{-0.8}	81 ⁺²⁵ ₋₂₅	1381	8.11 ^{+0.08} _{-0.08}	30.48 ^{+0.06} _{-0.06}	3.44E+37	6.80E+34
5127	58754.996895133	563.1 ^{+1.3} _{-1.3}	3.9 ^{+1.5} _{-1.5}	81 ⁺¹⁰ ₋₁₀	1146	5.27 ^{+0.05} _{-0.05}	20.78 ^{+0.08} _{-0.08}	2.35E+37	8.84E+34
5128	58754.996952274	563.6 ^{+1.2} _{-1.2}	3.1 ^{+1.1} _{-1.1}	48 ⁺²⁵ ₋₂₅	1400	6.13 ^{+0.06} _{-0.06}	18.96 ^{+0.06} _{-0.06}	2.14E+37	7.29E+34
5129	58754.997073124	564.4 ^{+0.7} _{-0.7}	4.3 ^{+1.3} _{-1.3}	62 ⁺²⁸ ₋₂₈	1373	4.49 ^{+0.04} _{-0.04}	19.21 ^{+0.06} _{-0.06}	2.17E+37	6.54E+34
5130	58754.997073230	564.2 ^{+0.6} _{-0.6}	2.6 ^{+0.2} _{-0.2}	64 ⁺²⁵ ₋₂₅	1434	9.48 ^{+0.09} _{-0.09}	24.25 ^{+0.02} _{-0.02}	2.74E+37	2.53E+34
5131	58754.997498912	563.7 ^{+1.2} _{-1.2}	5.4 ^{+1.4} _{-1.4}	159 ⁺²⁸ ₋₂₈	1371	7.32 ^{+0.07} _{-0.07}	39.77 ^{+0.10} _{-0.10}	4.49E+37	1.17E+35
5132	58754.997810531	563.4 ^{+0.2} _{-0.2}	2.2 ^{+0.6} _{-0.6}	97 ⁺²⁵ ₋₂₅	1417	10.87 ^{+0.11} _{-0.11}	23.84 ^{+0.06} _{-0.06}	2.69E+37	6.77E+34
5133	58754.997855449	562.0 ^{+1.0} _{-1.0}	1.7 ^{+0.6} _{-0.6}	312 ⁺¹¹³ ₋₁₁₃	1241	6.26 ^{+0.06} _{-0.06}	10.65 ^{+0.04} _{-0.04}	1.20E+37	4.06E+34
5134	58754.998112535	565.1 ^{+0.7} _{-0.7}	3.5 ^{+0.8} _{-0.8}	141 ⁺⁵⁶ ₋₅₆	1326	9.73 ^{+0.09} _{-0.09}	34.36 ^{+0.07} _{-0.07}	3.88E+37	8.29E+34
5135	58754.998313728	564.6 ^{+0.9} _{-0.9}	4.6 ^{+1.3} _{-1.3}	91 ⁺⁵ ₋₅	1392	8.75 ^{+0.09} _{-0.09}	40.18 ^{+0.11} _{-0.11}	4.54E+37	1.25E+35
5136	58754.998461747	563.7 ^{+0.0} _{-0.0}	2.0 ^{+0.0} _{-0.0}	408 ⁺⁷ ₋₇	1295	210.78 ^{+1.86} _{-1.86}	421.56 ^{+0.04} _{-0.04}	4.51E+38	3.98E+34
5137	58754.998461766	563.7 ^{+0.0} _{-0.0}	1.8 ^{+0.1} _{-0.1}	232 ⁺¹³⁶ ₋₁₃₆	1246	213.84 ^{+1.54} _{-1.54}	384.91 ^{+0.12} _{-0.12}	4.12E+38	1.32E+35
5138	58754.998499930	565.0 ^{+0.7} _{-0.7}	4.8 ^{+0.6} _{-0.6}	101 ⁺²² ₋₂₂	1394	8.52 ^{+0.95} _{-0.95}	41.07 ^{+0.61} _{-0.61}	4.40E+37	6.51E+35
5139	58754.998500449	562.8 ^{+1.4} _{-1.4}	4.3 ^{+0.6} _{-0.6}	164 ⁺⁴² ₋₄₂	1194	9.58 ^{+1.05} _{-1.05}	40.81 ^{+0.59} _{-0.59}	4.37E+37	6.29E+35
5140	58754.998603243	564.8 ^{+1.2} _{-1.2}	4.7 ^{+0.4} _{-0.4}	89 ⁺²² ₋₂₂	1369	13.95 ^{+0.90} _{-0.90}	66.12 ^{+0.33} _{-0.33}	7.08E+37	3.56E+35
5141	58754.998603253	564.8 ^{+1.2} _{-1.2}	4.5 ^{+0.4} _{-0.4}	143 ⁺²⁰ ₋₂₀	1324	12.12 ^{+0.70} _{-0.70}	54.78 ^{+0.32} _{-0.32}	5.86E+37	3.37E+35
5142	58754.998948938	563.2 ^{+1.4} _{-1.4}	5.2 ^{+2.6} _{-2.6}	68 ⁺³ ₋₃	1079	5.10 ^{+0.05} _{-0.05}	26.47 ^{+0.13} _{-0.13}	2.99E+37	1.49E+35
5143	58754.999362090	562.6 ^{+1.5} _{-1.5}	9.4 ^{+4.5} _{-4.5}	149 ⁺¹⁰⁹ ₋₁₀₉	1368	4.66 ^{+0.04} _{-0.04}	43.72 ^{+0.20} _{-0.20}	4.94E+37	2.29E+35
5144	58754.999976585	562.4 ^{+1.4} _{-1.4}	14.3 ^{+6.5} _{-6.5}	237 ⁺⁸⁸ ₋₈₈	1203	6.38 ^{+0.06} _{-0.06}	91.47 ^{+0.41} _{-0.41}	1.03E+38	4.62E+35
5145	58755.000631081	562.7 ^{+1.3} _{-1.3}	6.5 ^{+2.8} _{-2.8}	89 ⁺⁴ ₋₄	1353	5.96 ^{+0.06} _{-0.06}	38.55 ^{+0.17} _{-0.17}	4.36E+37	1.94E+35
5146	58755.001918846	563.8 ^{+1.1} _{-1.1}	4.7 ^{+0.7} _{-0.7}	57 ⁺⁷ ₋₇	1071	4.55 ^{+0.05} _{-0.05}	21.59 ^{+0.26} _{-0.26}	2.31E+37	2.79E+35
5147	58755.002437649	562.9 ^{+1.2} _{-1.2}	5.6 ^{+2.5} _{-2.5}	76 ⁺⁴ ₋₄	1362	5.62 ^{+0.06} _{-0.06}	31.38 ^{+0.15} _{-0.15}	3.55E+37	1.66E+35
5148	58755.002740084	563.5 ^{+1.4} _{-1.4}	5.5 ^{+1.4} _{-1.4}	124 ⁺⁴ ₋₄	1380	8.51 ^{+0.09} _{-0.09}	46.63 ^{+0.13} _{-0.13}	5.27E+37	1.44E+35
5149	58755.002794779	563.1 ^{+1.2} _{-1.2}	6.0 ^{+0.9} _{-0.9}	138 ⁺¹² ₋₁₂	1080	4.65 ^{+0.05} _{-0.05}	28.03 ^{+0.34} _{-0.34}	3.00E+37	3.69E+35
5150	58755.004295799	563.6 ^{+1.0} _{-1.0}	13.0 ^{+1.6} _{-1.6}	185 ⁺⁵⁵ ₋₅₅	1318	8.57 ^{+0.76} _{-0.76}	110.98 ^{+1.21} _{-1.21}	1.19E+38	1.29E+36
5151	58755.004537273	563.7 ^{+1.2} _{-1.2}	2.1 ^{+0.6} _{-0.6}	497 ⁺¹ ₋₁	1251	6.06 ^{+0.07} _{-0.07}	12.83 ^{+0.04} _{-0.04}	1.45E+37	4.55E+34
5152	58755.004646379	562.4 ^{+0.4} _{-0.4}	3.4 ^{+0.5} _{-0.5}	84 ⁺¹⁵ ₋₁₅	1159	10.29 ^{+1.30} _{-1.30}	35.50 ^{+0.68} _{-0.68}	3.80E+37	7.24E+35
5153	58755.004929690	562.9 ^{+1.3} _{-1.3}	6.2 ^{+0.9} _{-0.9}	96 ⁺⁴ ₋₄	1334	6.63 ^{+0.76} _{-0.76}	41.24 ^{+0.67} _{-0.67}	4.41E+37	7.16E+35
5154	58755.005467032	563.3 ^{+1.4} _{-1.4}	3.1 ^{+1.3} _{-1.3}	90 ⁺³ ₋₃	1366	4.97 ^{+0.06} _{-0.06}	15.47 ^{+0.07} _{-0.07}	1.75E+37	8.10E+34
5155	58755.005921925	563.0 ^{+1.4} _{-1.4}	3.4 ^{+0.3} _{-0.3}	99 ⁺³ ₋₃	1403	15.12 ^{+1.12} _{-1.12}	51.11 ^{+0.34} _{-0.34}	5.47E+37	3.60E+35
5156	58755.006705485	562.7 ^{+1.3} _{-1.3}	6.6 ^{+1.0} _{-1.0}	56 ⁺⁵ ₋₅	1403	6.28 ^{+0.81} _{-0.81}	41.26 ^{+0.83} _{-0.83}	4.42E+37	8.93E+35
5157	58755.006705824	563.4 ^{+1.1} _{-1.1}	2.4 ^{+0.8} _{-0.8}	96 ⁺⁵ ₋₅	1349	6.70 ^{+0.08} _{-0.08}	15.88 ^{+0.06} _{-0.06}	1.79E+37	7.11E+34
5158	58755.007222938	563.1 ^{+1.3} _{-1.3}	8.6 ^{+3.8} _{-3.8}	78 ⁺³ ₋₃	1340	4.45 ^{+0.05} _{-0.05}	38.02 ^{+0.19} _{-0.19}	4.30E+37	2.17E+35
5159	58755.008954800	563.1 ^{+1.3} _{-1.3}	3.9 ^{+1.0} _{-1.0}	64 ⁺³⁷ ₋₃₇	1388	6.74 ^{+0.08} _{-0.08}	25.96 ^{+0.08} _{-0.08}	2.93E+37	9.43E+34
5160	58755.011055448	564.5 ^{+1.1} _{-1.1}	2.8 ^{+0.8} _{-0.8}	92 ⁺⁴ ₋₄	1397	7.30 ^{+0.09} _{-0.09}	20.59 ^{+0.07} _{-0.07}	2.33E+37	8.14E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5161	58755.011118097	562.7 ^{+1.3} _{-1.3}	4.1 ^{+0.1} _{-0.1}	184 ⁺¹⁰ ₋₁₀	1385	72.75 ^{+1.16} _{-1.16}	297.55 ^{+0.09} _{-0.09}	3.19E+38	9.93E+34
5162	58755.011671039	563.3 ^{+1.2} _{-1.2}	3.7 ^{+0.4} _{-0.4}	182 ⁺¹³ ₋₁₃	1368	22.19 ^{+1.15} _{-1.15}	81.22 ^{+0.45} _{-0.45}	8.69E+37	4.80E+35
5163	58755.011671088	562.4 ^{+1.3} _{-1.3}	1.4 ^{+0.5} _{-0.5}	195 ⁺⁴ ₋₄	1184	7.76 ^{+2.60} _{-2.60}	11.10 ^{+1.38} _{-1.38}	1.19E+37	1.48E+36
5164	58755.011684926	563.3 ^{+1.3} _{-1.3}	2.0 ^{+0.6} _{-0.6}	86 ⁺⁴ ₋₄	1402	7.46 ^{+0.09} _{-0.09}	15.22 ^{+0.06} _{-0.06}	1.72E+37	6.75E+34
5165	58755.011919454	562.4 ^{+1.3} _{-1.3}	4.5 ^{+1.3} _{-1.3}	195 ⁺⁴ ₋₄	1184	6.19 ^{+0.08} _{-0.08}	27.74 ^{+0.10} _{-0.10}	3.13E+37	1.10E+35
5166	58755.011941029	563.5 ^{+0.9} _{-0.9}	2.3 ^{+0.2} _{-0.2}	59 ⁺⁵ ₋₅	1408	15.25 ^{+1.39} _{-1.39}	35.07 ^{+0.35} _{-0.35}	3.75E+37	3.72E+35
5167	58755.011993760	562.4 ^{+1.3} _{-1.3}	4.4 ^{+0.6} _{-0.6}	93 ⁺¹⁷ ₋₁₇	1428	5.12 ^{+0.06} _{-0.06}	22.45 ^{+0.32} _{-0.32}	2.40E+37	3.39E+35
5168	58755.012161393	563.5 ^{+1.3} _{-1.3}	4.6 ^{+0.6} _{-0.6}	57 ⁺³⁵ ₋₃₅	1397	9.66 ^{+1.05} _{-1.05}	44.53 ^{+0.63} _{-0.63}	4.77E+37	6.74E+35
5169	58755.012474111	564.3 ^{+0.8} _{-0.8}	5.7 ^{+0.7} _{-0.7}	102 ⁺¹⁴ ₋₁₄	1416	10.50 ^{+1.02} _{-1.02}	59.74 ^{+0.68} _{-0.68}	6.40E+37	7.32E+35
5170	58755.012474606	563.1 ^{+1.0} _{-1.0}	4.0 ^{+0.6} _{-0.6}	49 ⁺⁶ ₋₆	1438	9.33 ^{+1.20} _{-1.20}	37.79 ^{+0.74} _{-0.74}	4.04E+37	7.96E+35
5171	58755.012762010	562.9 ^{+1.1} _{-1.1}	5.0 ^{+2.1} _{-2.1}	44 ⁺³² ₋₃₂	1371	6.20 ^{+0.08} _{-0.08}	30.80 ^{+0.17} _{-0.17}	3.48E+37	1.88E+35
5172	58755.012924581	564.2 ^{+0.8} _{-0.8}	3.6 ^{+0.8} _{-0.8}	82 ⁺²⁴ ₋₂₄	1372	9.69 ^{+0.12} _{-0.12}	34.74 ^{+0.10} _{-0.10}	3.93E+37	1.15E+35
5173	58755.012991092	563.9 ^{+1.3} _{-1.3}	2.2 ^{+0.5} _{-0.5}	49 ⁺⁶ ₋₆	1392	7.24 ^{+0.09} _{-0.09}	15.88 ^{+0.05} _{-0.05}	1.79E+37	5.13E+34
5174	58755.013175128	564.7 ^{+1.1} _{-1.1}	4.9 ^{+1.2} _{-1.2}	123 ⁺²² ₋₂₂	1366	9.10 ^{+0.12} _{-0.12}	44.39 ^{+0.14} _{-0.14}	5.02E+37	1.60E+35
5175	58755.014831488	564.6 ^{+0.6} _{-0.6}	4.7 ^{+0.5} _{-0.5}	117 ⁺³² ₋₃₂	1205	14.52 ^{+1.23} _{-1.23}	68.53 ^{+0.59} _{-0.59}	7.34E+37	6.32E+35
5176	58755.015634904	564.4 ^{+0.4} _{-0.4}	3.5 ^{+0.4} _{-0.4}	178 ⁺⁵⁰ ₋₅₀	1223	14.26 ^{+1.52} _{-1.52}	50.05 ^{+0.67} _{-0.67}	5.36E+37	7.16E+35
5177	58755.015641838	561.2 ^{+0.8} _{-0.8}	6.4 ^{+1.2} _{-1.2}	116 ⁺⁴⁵ ₋₄₅	1276	7.91 ^{+0.10} _{-0.10}	50.91 ^{+0.12} _{-0.12}	5.75E+37	1.37E+35
5178	58755.015813364	564.5 ^{+0.6} _{-0.6}	5.3 ^{+2.6} _{-2.6}	67 ⁺³ ₋₃	1398	4.25 ^{+0.06} _{-0.06}	22.30 ^{+0.15} _{-0.15}	2.52E+37	1.64E+35
5179	58755.016081353	561.8 ^{+1.2} _{-1.2}	5.7 ^{+1.1} _{-1.1}	56 ⁺³⁵ ₋₃₅	1103	7.16 ^{+0.10} _{-0.10}	41.00 ^{+0.11} _{-0.11}	4.63E+37	1.22E+35
5180	58755.016475458	562.4 ^{+1.0} _{-1.0}	2.6 ^{+0.3} _{-0.3}	98 ⁺³¹ ₋₃₁	1392	16.24 ^{+1.65} _{-1.65}	42.87 ^{+0.53} _{-0.53}	4.59E+37	5.65E+35
5181	58755.016475534	563.8 ^{+1.0} _{-1.0}	4.2 ^{+0.7} _{-0.7}	91 ⁺²⁹ ₋₂₉	1339	11.27 ^{+0.15} _{-0.15}	47.82 ^{+0.10} _{-0.10}	5.40E+37	1.11E+35
5182	58755.016648334	562.4 ^{+1.0} _{-1.0}	11.3 ^{+2.5} _{-2.5}	98 ⁺³¹ ₋₃₁	1392	6.18 ^{+0.08} _{-0.08}	69.77 ^{+0.21} _{-0.21}	7.88E+37	2.35E+35
5183	58755.017386196	562.0 ^{+1.2} _{-1.2}	7.2 ^{+1.8} _{-1.8}	110 ⁺¹⁰² ₋₁₀₂	1131	6.26 ^{+0.09} _{-0.09}	45.32 ^{+0.15} _{-0.15}	5.12E+37	1.72E+35
5184	58755.017684530	562.1 ^{+1.3} _{-1.3}	3.7 ^{+1.7} _{-1.7}	65 ⁺⁶ ₋₆	1331	2.99 ^{+0.04} _{-0.04}	11.17 ^{+0.07} _{-0.07}	1.26E+37	7.85E+34
5185	58755.017901955	562.9 ^{+0.7} _{-0.7}	5.1 ^{+0.9} _{-0.9}	128 ⁺³² ₋₃₂	1387	8.10 ^{+0.11} _{-0.11}	41.45 ^{+0.10} _{-0.10}	4.68E+37	1.11E+35
5186	58755.017967775	563.9 ^{+1.2} _{-1.2}	8.3 ^{+1.8} _{-1.8}	55 ⁺⁴² ₋₄₂	1339	6.53 ^{+0.09} _{-0.09}	53.98 ^{+0.16} _{-0.16}	6.10E+37	1.81E+35
5187	58755.018577777	564.9 ^{+0.4} _{-0.4}	5.3 ^{+0.5} _{-0.5}	195 ⁺⁴⁰ ₋₄₀	1313	16.89 ^{+1.22} _{-1.22}	90.19 ^{+0.57} _{-0.57}	9.65E+37	6.14E+35
5188	58755.018973506	564.1 ^{+0.9} _{-0.9}	13.3 ^{+2.9} _{-2.9}	125 ⁺⁴¹ ₋₄₁	1359	7.16 ^{+0.10} _{-0.10}	95.43 ^{+0.29} _{-0.29}	1.08E+38	3.29E+35
5189	58755.019028941	562.9 ^{+1.3} _{-1.3}	7.2 ^{+1.9} _{-1.9}	98 ⁺³⁹ ₋₃₉	1351	7.53 ^{+0.10} _{-0.10}	53.94 ^{+0.20} _{-0.20}	6.10E+37	2.21E+35
5190	58755.019089085	563.2 ^{+0.6} _{-0.6}	7.0 ^{+0.6} _{-0.6}	170 ⁺¹⁸ ₋₁₈	1397	15.54 ^{+1.08} _{-1.08}	108.62 ^{+0.65} _{-0.65}	1.16E+38	6.94E+35
5191	58755.019134816	561.5 ^{+0.5} _{-0.5}	6.1 ^{+0.4} _{-0.4}	69 ⁺²⁵ ₋₂₅	1414	26.68 ^{+1.26} _{-1.26}	163.55 ^{+0.44} _{-0.44}	1.75E+38	4.72E+35
5192	58755.019729431	563.3 ^{+1.4} _{-1.4}	3.9 ^{+0.6} _{-0.6}	96 ⁺³³ ₋₃₃	1403	12.39 ^{+1.51} _{-1.51}	48.82 ^{+0.86} _{-0.86}	5.23E+37	9.21E+35
5193	58755.019911879	563.3 ^{+1.4} _{-1.4}	4.5 ^{+0.7} _{-0.7}	67 ⁺⁴⁰ ₋₄₀	1397	11.35 ^{+1.43} _{-1.43}	51.42 ^{+0.99} _{-0.99}	5.50E+37	1.06E+36
5194	58755.019956333	564.0 ^{+1.0} _{-1.0}	4.7 ^{+1.4} _{-1.4}	140 ⁺⁵ ₋₅	1326	5.35 ^{+0.07} _{-0.07}	25.08 ^{+0.10} _{-0.10}	2.83E+37	1.17E+35
5195	58755.019957351	562.3 ^{+0.9} _{-0.9}	5.0 ^{+2.8} _{-2.8}	60 ⁺⁸ ₋₈	1291	3.16 ^{+0.04} _{-0.04}	15.76 ^{+0.12} _{-0.12}	1.78E+37	1.39E+35
5196	58755.019957732	562.1 ^{+1.1} _{-1.1}	4.9 ^{+1.2} _{-1.2}	103 ⁺³⁷ ₋₃₇	1120	10.33 ^{+0.14} _{-0.14}	50.82 ^{+0.17} _{-0.17}	5.74E+37	1.90E+35
5197	58755.020192651	562.4 ^{+1.2} _{-1.2}	3.6 ^{+0.3} _{-0.3}	152 ⁺²⁹ ₋₂₉	1378	20.77 ^{+1.50} _{-1.50}	73.73 ^{+0.45} _{-0.45}	7.89E+37	4.82E+35
5198	58755.020962257	565.1 ^{+0.8} _{-0.8}	3.2 ^{+0.4} _{-0.4}	113 ⁺³¹ ₋₃₁	1410	16.11 ^{+1.76} _{-1.76}	50.75 ^{+0.72} _{-0.72}	5.43E+37	7.72E+35
5199	58755.021451739	565.1 ^{+0.6} _{-0.6}	3.6 ^{+0.5} _{-0.5}	123 ⁺⁴⁵ ₋₄₅	1403	20.06 ^{+0.29} _{-0.29}	72.84 ^{+1.21} _{-1.21}	7.80E+37	1.29E+36
5200	58755.021528382	563.6 ^{+1.0} _{-1.0}	4.7 ^{+1.2} _{-1.2}	82 ⁺³⁷ ₋₃₇	1391	6.99 ^{+0.10} _{-0.10}	32.72 ^{+0.12} _{-0.12}	3.70E+37	1.39E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5201	58755.021618864	564.4 ^{+1.2} _{-1.2}	4.6 ^{+0.7} _{-0.7}	60 ⁺³¹ ₋₃₁	1321	16.71 ^{+0.24} _{-0.24}	77.48 ^{+1.28} _{-1.28}	8.29E+37	1.37E+36
5202	58755.021690163	564.4 ^{+1.2} _{-1.2}	7.9 ^{+1.6} _{-1.6}	43 ⁺²³ ₋₂₃	1419	5.98 ^{+0.09} _{-0.09}	47.29 ^{+0.14} _{-0.14}	5.34E+37	1.62E+35
5203	58755.021932335	564.7 ^{+0.8} _{-0.8}	3.1 ^{+0.7} _{-0.7}	87 ⁺³¹ ₋₃₁	1262	9.77 ^{+0.14} _{-0.14}	29.99 ^{+0.10} _{-0.10}	3.39E+37	1.09E+35
5204	58755.021932630	563.8 ^{+1.3} _{-1.3}	3.0 ^{+0.6} _{-0.6}	150 ⁺⁸⁸ ₋₈₈	1293	7.72 ^{+0.11} _{-0.11}	23.24 ^{+0.06} _{-0.06}	2.63E+37	7.02E+34
5205	58755.882869075	563.3 ^{+1.3} _{-1.3}	7.7 ^{+2.4} _{-2.4}	90 ⁺³² ₋₃₂	1151	7.27 ^{+0.06} _{-0.06}	55.85 ^{+0.15} _{-0.15}	6.31E+37	1.69E+35
5206	58755.883015789	564.6 ^{+0.4} _{-0.4}	5.6 ^{+0.8} _{-0.8}	322 ⁺⁶⁰ ₋₆₀	1334	13.48 ^{+0.12} _{-0.12}	75.14 ^{+0.73} _{-0.73}	8.04E+37	7.85E+35
5207	58755.883082077	563.8 ^{+0.7} _{-0.7}	3.4 ^{+0.7} _{-0.7}	107 ⁺³² ₋₃₂	1397	8.43 ^{+0.07} _{-0.07}	28.74 ^{+0.05} _{-0.05}	3.25E+37	5.98E+34
5208	58755.883082981	561.9 ^{+0.9} _{-0.9}	5.2 ^{+0.8} _{-0.8}	72 ⁺³⁵ ₋₃₅	1310	11.75 ^{+0.10} _{-0.10}	61.47 ^{+0.60} _{-0.60}	6.58E+37	6.41E+35
5209	58755.883097154	563.6 ^{+0.8} _{-0.8}	4.1 ^{+0.5} _{-0.5}	177 ⁺¹⁶ ₋₁₆	1393	18.11 ^{+0.16} _{-0.16}	74.65 ^{+0.08} _{-0.08}	8.44E+37	8.66E+34
5210	58755.883169743	563.7 ^{+1.1} _{-1.1}	3.7 ^{+1.6} _{-1.6}	75 ⁺⁴ ₋₄	1350	5.20 ^{+0.05} _{-0.05}	19.00 ^{+0.07} _{-0.07}	2.15E+37	8.06E+34
5211	58755.883169957	563.3 ^{+1.3} _{-1.3}	7.7 ^{+1.1} _{-1.1}	305 ⁺⁴⁵ ₋₄₅	1240	5.33 ^{+0.05} _{-0.05}	41.06 ^{+0.41} _{-0.41}	4.40E+37	4.34E+35
5212	58755.884021441	564.3 ^{+0.4} _{-0.4}	4.0 ^{+0.6} _{-0.6}	119 ⁺²² ₋₂₂	1364	9.54 ^{+0.09} _{-0.09}	38.59 ^{+0.06} _{-0.06}	4.36E+37	6.25E+34
5213	58755.884021753	563.1 ^{+1.3} _{-1.3}	4.8 ^{+1.4} _{-1.4}	291 ⁺³⁰ ₋₃₀	1237	7.13 ^{+0.06} _{-0.06}	33.95 ^{+0.09} _{-0.09}	3.84E+37	9.91E+34
5214	58755.884021996	563.4 ^{+1.3} _{-1.3}	2.7 ^{+0.8} _{-0.8}	116 ⁺⁴ ₋₄	1195	5.17 ^{+0.05} _{-0.05}	14.06 ^{+0.04} _{-0.04}	1.59E+37	4.40E+34
5215	58755.884221168	563.4 ^{+1.3} _{-1.3}	3.3 ^{+1.0} _{-1.0}	140 ⁺¹³ ₋₁₃	1415	6.95 ^{+0.06} _{-0.06}	23.04 ^{+0.06} _{-0.06}	2.60E+37	7.00E+34
5216	58755.884321384	562.4 ^{+1.0} _{-1.0}	4.9 ^{+0.8} _{-0.8}	66 ⁺⁵¹ ₋₅₁	1337	11.71 ^{+0.11} _{-0.11}	57.21 ^{+0.09} _{-0.09}	6.46E+37	1.04E+35
5217	58755.884806615	562.8 ^{+1.4} _{-1.4}	6.7 ^{+1.5} _{-1.5}	111 ⁺²⁷ ₋₂₇	1183	5.76 ^{+0.05} _{-0.05}	38.83 ^{+0.07} _{-0.07}	4.38E+37	8.38E+34
5218	58755.885193963	563.1 ^{+1.2} _{-1.2}	4.8 ^{+0.9} _{-0.9}	116 ⁺¹⁷ ₋₁₇	1424	9.78 ^{+0.09} _{-0.09}	47.32 ^{+0.08} _{-0.08}	5.35E+37	9.14E+34
5219	58755.885740500	563.4 ^{+0.9} _{-0.9}	6.2 ^{+0.9} _{-0.9}	155 ⁺³⁵ ₋₃₅	1123	5.66 ^{+0.05} _{-0.05}	34.88 ^{+0.33} _{-0.33}	3.73E+37	3.55E+35
5220	58755.885886208	563.1 ^{+0.1} _{-0.1}	3.1 ^{+0.4} _{-0.4}	86 ⁺³³ ₋₃₃	1420	14.42 ^{+0.12} _{-0.12}	44.64 ^{+0.43} _{-0.43}	4.78E+37	4.59E+35
5221	58755.886251584	564.6 ^{+0.6} _{-0.6}	3.5 ^{+0.1} _{-0.1}	387 ⁺¹⁶ ₋₁₆	1306	73.25 ^{+0.61} _{-0.61}	254.16 ^{+0.05} _{-0.05}	2.87E+38	5.49E+34
5222	58755.886891131	563.7 ^{+1.3} _{-1.3}	5.3 ^{+1.2} _{-1.2}	76 ⁺⁴¹ ₋₄₁	1294	6.60 ^{+0.06} _{-0.06}	34.97 ^{+0.06} _{-0.06}	3.95E+37	7.21E+34
5223	58755.887315170	563.7 ^{+1.3} _{-1.3}	3.9 ^{+0.6} _{-0.6}	116 ⁺³⁵ ₋₃₅	1387	13.53 ^{+0.11} _{-0.11}	52.28 ^{+0.50} _{-0.50}	5.60E+37	5.30E+35
5224	58755.887520999	563.1 ^{+0.0} _{-0.0}	5.3 ^{+0.8} _{-0.8}	216 ⁺²³ ₋₂₃	1387	18.30 ^{+0.15} _{-0.15}	97.25 ^{+0.92} _{-0.92}	1.04E+38	9.83E+35
5225	58755.889861403	562.7 ^{+0.9} _{-0.9}	7.0 ^{+2.0} _{-2.0}	145 ⁺⁴² ₋₄₂	1202	9.87 ^{+0.08} _{-0.08}	69.32 ^{+0.16} _{-0.16}	7.83E+37	1.81E+35
5226	58755.890058495	564.1 ^{+0.7} _{-0.7}	2.5 ^{+0.6} _{-0.6}	98 ⁺³⁷ ₋₃₇	1417	10.04 ^{+0.08} _{-0.08}	25.01 ^{+0.05} _{-0.05}	2.83E+37	5.39E+34
5227	58755.890198734	562.4 ^{+1.2} _{-1.2}	3.7 ^{+0.5} _{-0.5}	469 ⁺¹³ ₋₁₃	1265	218.01 ^{+1.76} _{-1.76}	802.54 ^{+7.40} _{-7.40}	8.59E+38	7.93E+36
5228	58755.890207633	562.4 ^{+1.2} _{-1.2}	2.8 ^{+0.4} _{-0.4}	494 ⁺⁴ ₋₄	1252	9.78 ^{+1.06} _{-1.06}	27.09 ^{+0.37} _{-0.37}	2.90E+37	3.97E+35
5229	58755.890210587	562.4 ^{+1.2} _{-1.2}	1.6 ^{+0.3} _{-0.3}	138 ⁺⁵⁴ ₋₅₄	1197	8.24 ^{+1.37} _{-1.37}	13.35 ^{+0.42} _{-0.42}	1.43E+37	4.55E+35
5230	58755.890405889	563.2 ^{+1.4} _{-1.4}	1.9 ^{+1.7} _{-1.7}	70 ⁺⁷ ₋₇	1400	2.63 ^{+0.02} _{-0.02}	5.10 ^{+0.04} _{-0.04}	5.76E+36	3.98E+34
5231	58755.890406032	562.2 ^{+1.2} _{-1.2}	4.6 ^{+1.2} _{-1.2}	108 ⁺³⁵ ₋₃₅	1381	6.07 ^{+0.05} _{-0.05}	27.75 ^{+0.06} _{-0.06}	3.14E+37	7.01E+34
5232	58755.891050719	563.0 ^{+1.2} _{-1.2}	5.8 ^{+1.0} _{-1.0}	99 ⁺⁴² ₋₄₂	1364	9.44 ^{+0.08} _{-0.08}	54.57 ^{+0.08} _{-0.08}	6.16E+37	8.81E+34
5233	58755.891051491	563.2 ^{+1.3} _{-1.3}	6.3 ^{+3.0} _{-3.0}	108 ⁺⁴ ₋₄	1366	5.01 ^{+0.04} _{-0.04}	31.49 ^{+0.12} _{-0.12}	3.56E+37	1.34E+35
5234	58755.891343685	562.6 ^{+1.4} _{-1.4}	5.3 ^{+1.6} _{-1.6}	89 ⁺⁴ ₋₄	1382	4.90 ^{+0.04} _{-0.04}	26.00 ^{+0.06} _{-0.06}	2.94E+37	6.83E+34
5235	58755.891713726	563.7 ^{+1.2} _{-1.2}	8.2 ^{+1.2} _{-1.2}	159 ⁺²² ₋₂₂	1266	9.36 ^{+0.07} _{-0.07}	76.64 ^{+0.69} _{-0.69}	8.20E+37	7.42E+35
5236	58755.892194387	562.4 ^{+1.1} _{-1.1}	7.7 ^{+1.3} _{-1.3}	118 ⁺⁶ ₋₆	1138	8.22 ^{+0.07} _{-0.07}	63.53 ^{+0.08} _{-0.08}	7.17E+37	9.20E+34
5237	58755.892435965	562.0 ^{+0.7} _{-0.7}	2.2 ^{+0.3} _{-0.3}	135 ⁺¹⁰ ₋₁₀	1318	14.26 ^{+0.12} _{-0.12}	31.09 ^{+0.03} _{-0.03}	3.51E+37	3.60E+34
5238	58755.892437936	562.2 ^{+0.5} _{-0.5}	8.2 ^{+2.1} _{-2.1}	197 ⁺¹⁶ ₋₁₆	1207	9.04 ^{+0.07} _{-0.07}	74.34 ^{+0.15} _{-0.15}	8.40E+37	1.69E+35
5239	58755.892439561	563.1 ^{+1.4} _{-1.4}	3.3 ^{+0.5} _{-0.5}	207 ⁺⁸ ₋₈	1140	21.07 ^{+0.17} _{-0.17}	70.10 ^{+0.64} _{-0.64}	7.50E+37	6.81E+35
5240	58755.892601277	564.4 ^{+1.0} _{-1.0}	4.7 ^{+0.7} _{-0.7}	392 ⁺¹¹ ₋₁₁	1204	20.06 ^{+0.16} _{-0.16}	93.63 ^{+0.85} _{-0.85}	1.00E+38	9.09E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5241	58755.892974292	564.7 ^{+0.8} _{-0.8}	3.0 ^{+0.6} _{-0.6}	65 ⁺³⁴ ₋₃₄	1409	9.32 ^{+0.07} _{-0.07}	28.44 ^{+0.04} _{-0.04}	3.21E+37	5.02E+34
5242	58755.893052843	562.8 ^{+1.3} _{-1.3}	2.8 ^{+0.5} _{-0.5}	81 ⁺²⁹ ₋₂₉	1418	6.32 ^{+0.05} _{-0.05}	17.37 ^{+0.03} _{-0.03}	1.96E+37	2.95E+34
5243	58755.893430089	563.3 ^{+1.1} _{-1.1}	3.4 ^{+0.5} _{-0.5}	284 ⁺¹²⁴ ₋₁₂₄	1322	8.05 ^{+0.90} _{-0.90}	27.77 ^{+0.41} _{-0.41}	2.97E+37	4.43E+35
5244	58755.893433026	562.2 ^{+1.2} _{-1.2}	7.4 ^{+1.7} _{-1.7}	112 ⁺³⁸ ₋₃₈	1109	6.89 ^{+0.06} _{-0.06}	50.67 ^{+0.10} _{-0.10}	5.73E+37	1.09E+35
5245	58755.893509592	562.3 ^{+1.3} _{-1.3}	3.6 ^{+0.5} _{-0.5}	83 ⁺⁴ ₋₄	1352	24.04 ^{+0.19} _{-0.19}	85.85 ^{+0.77} _{-0.77}	9.19E+37	8.27E+35
5246	58755.893510505	564.3 ^{+1.0} _{-1.0}	5.7 ^{+1.0} _{-1.0}	253 ⁺⁵⁶ ₋₅₆	1238	9.75 ^{+0.08} _{-0.08}	55.69 ^{+0.08} _{-0.08}	6.29E+37	8.89E+34
5247	58755.893510596	564.5 ^{+0.9} _{-0.9}	8.8 ^{+2.1} _{-2.1}	215 ⁺⁴² ₋₄₂	1159	11.92 ^{+0.09} _{-0.09}	104.65 ^{+0.19} _{-0.19}	1.18E+38	2.19E+35
5248	58755.893531239	562.3 ^{+1.0} _{-1.0}	2.6 ^{+0.6} _{-0.6}	74 ⁺²⁷ ₋₂₇	1346	13.61 ^{+0.14} _{-0.14}	34.94 ^{+0.08} _{-0.08}	3.95E+37	8.76E+34
5249	58755.893645885	563.8 ^{+0.7} _{-0.7}	4.6 ^{+0.6} _{-0.6}	201 ⁺¹⁶ ₋₁₆	1216	19.13 ^{+0.15} _{-0.15}	88.62 ^{+0.08} _{-0.08}	1.00E+38	9.58E+34
5250	58755.893932882	563.3 ^{+1.2} _{-1.2}	8.5 ^{+1.2} _{-1.2}	76 ⁺³³ ₋₃₃	1403	8.64 ^{+0.07} _{-0.07}	73.33 ^{+0.66} _{-0.66}	7.85E+37	7.07E+35
5251	58755.894190024	563.2 ^{+1.2} _{-1.2}	6.9 ^{+1.6} _{-1.6}	72 ⁺⁴³ ₋₄₃	1358	9.87 ^{+0.08} _{-0.08}	67.93 ^{+0.13} _{-0.13}	7.68E+37	1.50E+35
5252	58755.894686863	563.4 ^{+1.1} _{-1.1}	4.8 ^{+1.8} _{-1.8}	79 ⁺⁴³ ₋₄₃	1361	6.71 ^{+0.06} _{-0.06}	32.17 ^{+0.11} _{-0.11}	3.63E+37	1.26E+35
5253	58755.894686986	563.9 ^{+1.2} _{-1.2}	4.6 ^{+1.6} _{-1.6}	58 ⁺⁵ ₋₅	1344	8.27 ^{+0.08} _{-0.08}	38.47 ^{+0.12} _{-0.12}	4.35E+37	1.40E+35
5254	58755.894807773	564.9 ^{+0.4} _{-0.4}	4.7 ^{+1.0} _{-1.0}	141 ⁺⁴² ₋₄₂	1320	9.87 ^{+0.08} _{-0.08}	46.28 ^{+0.08} _{-0.08}	5.23E+37	8.68E+34
5255	58755.896191958	561.1 ^{+0.4} _{-0.4}	9.1 ^{+1.9} _{-1.9}	145 ⁺³⁸ ₋₃₈	1147	10.32 ^{+0.08} _{-0.08}	93.50 ^{+0.15} _{-0.15}	1.06E+38	1.72E+35
5256	58755.896752709	563.1 ^{+0.1} _{-0.1}	3.1 ^{+0.4} _{-0.4}	356 ⁺¹⁷ ₋₁₇	1321	211.13 ^{+1.63} _{-1.63}	656.74 ^{+5.79} _{-5.79}	7.03E+38	6.19E+36
5257	58755.896784917	563.8 ^{+1.2} _{-1.2}	8.3 ^{+1.2} _{-1.2}	62 ⁺²⁶ ₋₂₆	1399	8.67 ^{+0.07} _{-0.07}	72.18 ^{+0.64} _{-0.64}	7.73E+37	6.83E+35
5258	58755.896965121	563.1 ^{+1.4} _{-1.4}	7.3 ^{+2.8} _{-2.8}	71 ⁺¹³ ₋₁₃	1366	7.57 ^{+0.06} _{-0.06}	55.49 ^{+0.17} _{-0.17}	6.27E+37	1.90E+35
5259	58755.896965865	562.6 ^{+1.0} _{-1.0}	6.2 ^{+1.4} _{-1.4}	105 ⁺²¹ ₋₂₁	1146	10.39 ^{+0.08} _{-0.08}	64.80 ^{+0.11} _{-0.11}	7.32E+37	1.27E+35
5260	58755.897065386	563.1 ^{+0.3} _{-0.3}	8.3 ^{+1.2} _{-1.2}	268 ⁺⁴² ₋₄₂	1145	5.00 ^{+0.04} _{-0.04}	41.67 ^{+0.36} _{-0.36}	4.46E+37	3.88E+35
5261	58755.897065514	562.0 ^{+0.3} _{-0.3}	3.7 ^{+1.9} _{-1.9}	109 ⁺³⁵ ₋₃₅	1086	5.72 ^{+0.05} _{-0.05}	21.35 ^{+0.09} _{-0.09}	2.41E+37	1.02E+35
5262	58755.897107616	563.5 ^{+1.1} _{-1.1}	4.0 ^{+0.6} _{-0.6}	86 ⁺²² ₋₂₂	1357	3.87 ^{+0.03} _{-0.03}	15.39 ^{+0.14} _{-0.14}	1.65E+37	1.46E+35
5263	58755.897914214	564.1 ^{+0.9} _{-0.9}	7.7 ^{+1.8} _{-1.8}	83 ⁺³² ₋₃₂	1368	7.33 ^{+0.06} _{-0.06}	56.37 ^{+0.10} _{-0.10}	6.37E+37	1.15E+35
5264	58755.898021018	563.2 ^{+1.1} _{-1.1}	11.4 ^{+3.1} _{-3.1}	128 ⁺³⁵ ₋₃₅	1190	6.35 ^{+0.05} _{-0.05}	72.62 ^{+0.15} _{-0.15}	8.21E+37	1.72E+35
5265	58756.841061079	564.2 ^{+0.3} _{-0.3}	2.6 ^{+0.4} _{-0.4}	205 ⁺¹⁶ ₋₁₆	1391	25.40 ^{+0.30} _{-0.30}	65.99 ^{+0.89} _{-0.89}	7.06E+37	9.52E+35
5266	58756.841185372	564.3 ^{+0.8} _{-0.8}	3.8 ^{+0.6} _{-0.6}	87 ⁺³⁰ ₋₃₀	1416	12.60 ^{+0.15} _{-0.15}	48.18 ^{+0.65} _{-0.65}	5.16E+37	6.93E+35
5267	58756.841473526	563.3 ^{+1.2} _{-1.2}	3.3 ^{+0.5} _{-0.5}	91 ⁺¹⁷ ₋₁₇	1400	7.87 ^{+0.09} _{-0.09}	25.63 ^{+0.04} _{-0.04}	2.90E+37	4.82E+34
5268	58756.841475178	562.7 ^{+0.8} _{-0.8}	4.3 ^{+2.0} _{-2.0}	257 ⁺⁹³ ₋₉₃	1150	3.25 ^{+0.04} _{-0.04}	14.08 ^{+0.08} _{-0.08}	1.59E+37	8.56E+34
5269	58756.841643670	563.5 ^{+0.0} _{-0.0}	4.1 ^{+0.6} _{-0.6}	474 ⁺¹³ ₋₁₃	1248	35.52 ^{+0.42} _{-0.42}	146.37 ^{+1.97} _{-1.97}	1.57E+38	2.10E+36
5270	58756.842009004	562.9 ^{+1.3} _{-1.3}	8.2 ^{+2.0} _{-2.0}	74 ⁺³⁵ ₋₃₅	1432	4.21 ^{+0.05} _{-0.05}	34.38 ^{+0.10} _{-0.10}	3.88E+37	1.10E+35
5271	58756.842099379	563.4 ^{+0.3} _{-0.3}	2.9 ^{+0.3} _{-0.3}	65 ⁺¹⁸ ₋₁₈	1406	10.52 ^{+0.12} _{-0.12}	30.51 ^{+0.04} _{-0.04}	3.45E+37	4.03E+34
5272	58756.842830459	562.9 ^{+1.3} _{-1.3}	9.5 ^{+1.5} _{-1.5}	162 ⁺³⁸ ₋₃₈	1318	6.85 ^{+0.08} _{-0.08}	65.28 ^{+0.12} _{-0.12}	7.37E+37	1.34E+35
5273	58756.842958268	563.8 ^{+1.1} _{-1.1}	6.5 ^{+0.9} _{-0.9}	62 ⁺³² ₋₃₂	1140	4.17 ^{+0.05} _{-0.05}	26.95 ^{+0.35} _{-0.35}	2.88E+37	3.79E+35
5274	58756.842958470	562.5 ^{+1.3} _{-1.3}	16.7 ^{+3.1} _{-3.1}	70 ⁺³⁰ ₋₃₀	1163	7.27 ^{+0.09} _{-0.09}	121.60 ^{+0.26} _{-0.26}	1.37E+38	2.96E+35
5275	58756.843046870	563.6 ^{+1.3} _{-1.3}	2.5 ^{+0.6} _{-0.6}	102 ⁺⁴⁰ ₋₄₀	1224	7.61 ^{+0.09} _{-0.09}	18.68 ^{+0.05} _{-0.05}	2.11E+37	6.11E+34
5276	58756.843049393	562.9 ^{+1.2} _{-1.2}	5.2 ^{+0.9} _{-0.9}	133 ⁺⁴² ₋₄₂	1400	9.08 ^{+0.11} _{-0.11}	47.18 ^{+0.09} _{-0.09}	5.33E+37	1.05E+35
5277	58756.843334656	563.7 ^{+1.1} _{-1.1}	4.5 ^{+0.8} _{-0.8}	70 ⁺²⁵ ₋₂₅	1102	5.55 ^{+0.06} _{-0.06}	24.98 ^{+0.05} _{-0.05}	2.82E+37	6.00E+34
5278	58756.843490783	563.6 ^{+1.3} _{-1.3}	4.8 ^{+1.2} _{-1.2}	79 ⁺²¹ ₋₂₁	1429	6.82 ^{+0.08} _{-0.08}	32.91 ^{+0.10} _{-0.10}	3.72E+37	1.12E+35
5279	58756.843981302	562.8 ^{+1.3} _{-1.3}	3.2 ^{+0.9} _{-0.9}	388 ⁺⁷² ₋₇₂	1232	4.63 ^{+0.05} _{-0.05}	14.95 ^{+0.05} _{-0.05}	1.69E+37	5.51E+34
5280	58756.843981517	562.1 ^{+1.0} _{-1.0}	5.6 ^{+3.0} _{-3.0}	63 ⁺¹² ₋₁₂	1090	3.68 ^{+0.04} _{-0.04}	20.52 ^{+0.12} _{-0.12}	2.32E+37	1.40E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5281	58756.844848847	564.9 ^{+1.0} _{-1.0}	2.4 ^{+0.2} _{-0.2}	137 ⁺¹⁹ ₋₁₉	1416	24.39 ^{+1.58} _{-1.58}	58.05 ^{+0.28} _{-0.28}	6.21E+37	3.04E+35
5282	58756.844848999	564.8 ^{+0.6} _{-0.6}	3.7 ^{+1.2} _{-1.2}	53 ⁺⁴ ₋₄	1428	4.33 ^{+0.05} _{-0.05}	16.05 ^{+0.06} _{-0.06}	1.81E+37	6.56E+34
5283	58756.844849806	564.9 ^{+1.0} _{-1.0}	4.4 ^{+0.7} _{-0.7}	48 ⁺⁴ ₋₄	1425	8.76 ^{+1.18} _{-1.18}	38.28 ^{+0.83} _{-0.83}	4.10E+37	8.84E+35
5284	58756.844914951	565.2 ^{+0.9} _{-0.9}	3.4 ^{+0.4} _{-0.4}	163 ⁺¹⁸ ₋₁₈	1295	13.43 ^{+1.27} _{-1.27}	45.66 ^{+0.48} _{-0.48}	4.89E+37	5.17E+35
5285	58756.845015677	563.6 ^{+1.3} _{-1.3}	3.5 ^{+0.9} _{-0.9}	114 ⁺²⁸ ₋₂₈	1380	6.51 ^{+0.07} _{-0.07}	22.87 ^{+0.07} _{-0.07}	2.58E+37	7.81E+34
5286	58756.845015759	564.4 ^{+0.6} _{-0.6}	4.4 ^{+0.9} _{-0.9}	118 ⁺⁶⁷ ₋₆₇	1287	7.03 ^{+0.08} _{-0.08}	31.26 ^{+0.08} _{-0.08}	3.53E+37	8.66E+34
5287	58756.845024577	562.5 ^{+1.0} _{-1.0}	2.4 ^{+0.7} _{-0.7}	35 ⁺⁵ ₋₅	1330	4.08 ^{+0.05} _{-0.05}	9.99 ^{+0.03} _{-0.03}	1.13E+37	3.79E+34
5288	58756.845024890	563.0 ^{+1.2} _{-1.2}	7.9 ^{+3.7} _{-3.7}	129 ⁺²⁶ ₋₂₆	1411	4.11 ^{+0.05} _{-0.05}	32.40 ^{+0.17} _{-0.17}	3.66E+37	1.97E+35
5289	58756.845025218	562.4 ^{+1.2} _{-1.2}	6.2 ^{+1.6} _{-1.6}	103 ⁺³¹ ₋₃₁	1207	5.55 ^{+0.06} _{-0.06}	34.34 ^{+0.10} _{-0.10}	3.88E+37	1.17E+35
5290	58756.845141728	563.2 ^{+1.3} _{-1.3}	2.5 ^{+0.4} _{-0.4}	85 ⁺¹⁸ ₋₁₈	1347	9.74 ^{+0.11} _{-0.11}	24.66 ^{+0.04} _{-0.04}	2.79E+37	4.68E+34
5291	58756.845272634	564.6 ^{+0.9} _{-0.9}	2.9 ^{+0.2} _{-0.2}	153 ⁺¹² ₋₁₂	1416	24.67 ^{+1.42} _{-1.42}	72.04 ^{+0.28} _{-0.28}	7.71E+37	3.04E+35
5292	58756.846077576	563.5 ^{+1.4} _{-1.4}	8.3 ^{+1.7} _{-1.7}	164 ⁺²¹ ₋₂₁	1274	5.93 ^{+0.07} _{-0.07}	49.13 ^{+0.12} _{-0.12}	5.55E+37	1.30E+35
5293	58756.846174082	563.7 ^{+0.0} _{-0.0}	2.6 ^{+0.1} _{-0.1}	494 ⁺³ ₋₃	1252	272.78 ^{+9.30} _{-9.30}	717.41 ^{+0.93} _{-0.93}	7.68E+38	9.96E+35
5294	58756.846609195	564.3 ^{+0.3} _{-0.3}	3.4 ^{+0.4} _{-0.4}	135 ⁺³² ₋₃₂	1150	11.85 ^{+1.28} _{-1.28}	40.41 ^{+0.56} _{-0.56}	4.33E+37	6.03E+35
5295	58756.846985430	563.4 ^{+1.1} _{-1.1}	3.3 ^{+0.8} _{-0.8}	46 ⁺⁴ ₋₄	1427	8.58 ^{+0.10} _{-0.10}	28.37 ^{+0.07} _{-0.07}	3.21E+37	8.25E+34
5296	58756.846986134	564.9 ^{+0.4} _{-0.4}	3.0 ^{+0.3} _{-0.3}	100 ⁺⁶⁸ ₋₆₈	1389	16.75 ^{+1.46} _{-1.46}	50.25 ^{+0.45} _{-0.45}	5.38E+37	4.84E+35
5297	58756.846986337	564.9 ^{+0.3} _{-0.3}	2.3 ^{+0.8} _{-0.8}	86 ⁺¹⁶ ₋₁₆	1439	7.03 ^{+2.15} _{-2.15}	15.89 ^{+1.74} _{-1.74}	1.70E+37	1.86E+36
5298	58756.847267297	561.9 ^{+1.1} _{-1.1}	5.3 ^{+1.2} _{-1.2}	62 ⁺¹⁴ ₋₁₄	1315	7.03 ^{+0.08} _{-0.08}	37.20 ^{+0.10} _{-0.10}	4.20E+37	1.09E+35
5299	58756.847380326	563.5 ^{+1.2} _{-1.2}	10.1 ^{+4.7} _{-4.7}	180 ⁺¹⁰ ₋₁₀	1320	3.19 ^{+0.04} _{-0.04}	32.25 ^{+0.17} _{-0.17}	3.64E+37	1.91E+35
5300	58756.847614957	564.0 ^{+1.2} _{-1.2}	3.7 ^{+0.5} _{-0.5}	306 ⁺⁷³ ₋₇₃	1243	10.48 ^{+1.16} _{-1.16}	38.36 ^{+0.56} _{-0.56}	4.11E+37	5.96E+35
5301	58756.847987092	566.1 ^{+0.5} _{-0.5}	3.7 ^{+0.4} _{-0.4}	103 ⁺³² ₋₃₂	1208	15.35 ^{+1.24} _{-1.24}	56.49 ^{+0.45} _{-0.45}	6.05E+37	4.78E+35
5302	58756.847987207	566.0 ^{+0.5} _{-0.5}	5.5 ^{+0.5} _{-0.5}	191 ⁺¹² ₋₁₂	1385	21.65 ^{+0.24} _{-0.24}	120.00 ^{+0.12} _{-0.12}	1.36E+38	1.36E+35
5303	58756.848102326	563.4 ^{+1.4} _{-1.4}	3.6 ^{+0.4} _{-0.4}	125 ⁺¹⁴ ₋₁₄	1409	13.02 ^{+1.36} _{-1.36}	47.00 ^{+0.61} _{-0.61}	5.03E+37	6.55E+35
5304	58756.848102560	564.4 ^{+1.1} _{-1.1}	3.9 ^{+0.3} _{-0.3}	140 ⁺²¹ ₋₂₁	1366	19.05 ^{+1.26} _{-1.26}	74.49 ^{+0.39} _{-0.39}	7.97E+37	4.18E+35
5305	58756.848298173	564.4 ^{+1.0} _{-1.0}	4.0 ^{+0.6} _{-0.6}	76 ⁺²² ₋₂₂	1393	11.28 ^{+0.13} _{-0.13}	45.07 ^{+0.07} _{-0.07}	5.09E+37	8.41E+34
5306	58756.848419378	563.8 ^{+1.0} _{-1.0}	3.1 ^{+0.2} _{-0.2}	150 ⁺²³ ₋₂₃	1387	15.62 ^{+0.17} _{-0.17}	48.74 ^{+0.04} _{-0.04}	5.51E+37	4.25E+34
5307	58756.848736583	564.4 ^{+0.0} _{-0.0}	2.4 ^{+0.0} _{-0.0}	364 ⁺⁴ ₋₄	1317	241.91 ^{+8.56} _{-8.56}	583.00 ^{+0.43} _{-0.43}	6.24E+38	4.58E+35
5308	58756.848736608	564.4 ^{+0.0} _{-0.0}	2.8 ^{+0.0} _{-0.0}	493 ⁺³ ₋₃	1253	394.88 ^{+5.84} _{-5.84}	1097.77 ^{+0.23} _{-0.23}	1.18E+39	2.50E+35
5309	58756.849090152	563.0 ^{+1.2} _{-1.2}	3.9 ^{+0.7} _{-0.7}	203 ⁺⁵ ₋₅	1285	7.58 ^{+0.08} _{-0.08}	29.50 ^{+0.06} _{-0.06}	3.33E+37	6.96E+34
5310	58756.849091100	564.2 ^{+0.8} _{-0.8}	5.0 ^{+1.2} _{-1.2}	99 ⁺¹⁴ ₋₁₄	1264	7.16 ^{+0.08} _{-0.08}	35.85 ^{+0.10} _{-0.10}	4.05E+37	1.10E+35
5311	58756.849525278	565.3 ^{+0.8} _{-0.8}	4.6 ^{+0.3} _{-0.3}	236 ⁺¹⁴ ₋₁₄	1359	18.94 ^{+1.06} _{-1.06}	86.75 ^{+0.33} _{-0.33}	9.29E+37	3.52E+35
5312	58756.849525333	565.3 ^{+0.8} _{-0.8}	3.4 ^{+0.2} _{-0.2}	236 ⁺⁵⁰ ₋₅₀	1159	16.21 ^{+1.34} _{-1.34}	55.92 ^{+0.28} _{-0.28}	5.99E+37	3.01E+35
5313	58756.849529796	565.0 ^{+0.8} _{-0.8}	3.8 ^{+0.3} _{-0.3}	165 ⁺¹⁷ ₋₁₇	1310	17.30 ^{+1.20} _{-1.20}	65.57 ^{+0.37} _{-0.37}	7.02E+37	3.98E+35
5314	58756.849529839	565.0 ^{+0.8} _{-0.8}	3.2 ^{+0.4} _{-0.4}	179 ⁺³⁶ ₋₃₆	1284	17.70 ^{+1.03} _{-1.03}	56.82 ^{+0.46} _{-0.46}	6.08E+37	4.96E+35
5315	58756.849580686	564.6 ^{+0.8} _{-0.8}	5.7 ^{+0.2} _{-0.2}	211 ⁺¹⁰ ₋₁₀	1394	75.00 ^{+1.11} _{-1.11}	427.50 ^{+0.19} _{-0.19}	4.58E+38	2.02E+35
5316	58756.849580760	564.6 ^{+0.8} _{-0.8}	5.0 ^{+0.6} _{-0.6}	223 ⁺¹⁰ ₋₁₀	1367	18.88 ^{+1.25} _{-1.25}	94.59 ^{+0.72} _{-0.72}	1.01E+38	7.76E+35
5317	58756.849976034	563.6 ^{+0.6} _{-0.6}	2.4 ^{+0.2} _{-0.2}	63 ⁺¹¹ ₋₁₁	1436	25.13 ^{+1.57} _{-1.57}	59.31 ^{+0.27} _{-0.27}	6.35E+37	2.86E+35
5318	58756.849976067	563.6 ^{+0.6} _{-0.6}	2.1 ^{+0.6} _{-0.6}	134 ⁺⁴² ₋₄₂	1381	25.85 ^{+1.20} _{-1.20}	54.29 ^{+0.67} _{-0.67}	5.81E+37	7.19E+35
5319	58756.850131960	563.0 ^{+1.3} _{-1.3}	2.1 ^{+0.3} _{-0.3}	137 ⁺²⁴ ₋₂₄	1331	9.33 ^{+0.10} _{-0.10}	19.19 ^{+0.03} _{-0.03}	2.17E+37	3.39E+34
5320	58756.850393469	563.6 ^{+1.2} _{-1.2}	2.0 ^{+0.2} _{-0.2}	81 ⁺¹⁸ ₋₁₈	1442	25.47 ^{+1.70} _{-1.70}	52.21 ^{+0.27} _{-0.27}	5.59E+37	2.91E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5321	58756.850393478	563.6 ^{+1.2} _{-1.2}	2.0 ^{+0.3} _{-0.3}	115 ⁺³⁷ ₋₃₇	1429	27.41 ^{+1.50} _{-1.50}	55.64 ^{+0.45} _{-0.45}	5.96E+37	4.82E+35
5322	58756.850662814	564.3 ^{+0.9} _{-0.9}	7.0 ^{+0.7} _{-0.7}	132 ⁺²⁷ ₋₂₇	1397	10.68 ^{+0.91} _{-0.91}	75.08 ^{+0.67} _{-0.67}	8.04E+37	7.21E+35
5323	58756.850819182	563.4 ^{+1.2} _{-1.2}	4.7 ^{+1.0} _{-1.0}	134 ⁺²² ₋₂₂	1207	6.91 ^{+0.07} _{-0.07}	32.56 ^{+0.07} _{-0.07}	3.68E+37	8.31E+34
5324	58756.850922145	565.5 ^{+0.5} _{-0.5}	2.9 ^{+0.2} _{-0.2}	126 ⁺⁵³ ₋₅₃	1380	14.07 ^{+0.15} _{-0.15}	40.20 ^{+0.04} _{-0.04}	4.54E+37	4.15E+34
5325	58756.851353573	564.6 ^{+0.5} _{-0.5}	2.7 ^{+0.6} _{-0.6}	156 ⁺²⁴ ₋₂₄	1399	16.33 ^{+5.00} _{-5.00}	44.58 ^{+2.95} _{-2.95}	4.77E+37	3.16E+36
5326	58756.851353611	564.6 ^{+0.5} _{-0.5}	6.0 ^{+3.5} _{-3.5}	178 ⁺²³ ₋₂₃	1350	5.35 ^{+1.62} _{-1.62}	32.21 ^{+5.73} _{-5.73}	3.45E+37	6.14E+36
5327	58756.851668849	563.1 ^{+1.2} _{-1.2}	2.1 ^{+0.2} _{-0.2}	167 ⁺²⁵ ₋₂₅	1307	18.49 ^{+0.20} _{-0.20}	38.34 ^{+0.04} _{-0.04}	4.33E+37	4.07E+34
5328	58756.851967619	562.6 ^{+1.2} _{-1.2}	10.0 ^{+2.4} _{-2.4}	92 ⁺³⁷ ₋₃₇	1190	5.83 ^{+0.06} _{-0.06}	58.32 ^{+0.15} _{-0.15}	6.59E+37	1.72E+35
5329	58756.852817131	562.2 ^{+1.2} _{-1.2}	5.0 ^{+1.2} _{-1.2}	196 ⁺⁴¹ ₋₄₁	1391	7.69 ^{+0.08} _{-0.08}	38.56 ^{+0.10} _{-0.10}	4.36E+37	1.15E+35
5330	58756.852899741	562.5 ^{+0.4} _{-0.4}	4.3 ^{+0.2} _{-0.2}	107 ⁺⁴⁸ ₋₄₈	1222	27.40 ^{+1.30} _{-1.30}	117.00 ^{+0.31} _{-0.31}	1.25E+38	3.34E+35
5331	58756.852899793	562.4 ^{+0.4} _{-0.4}	3.4 ^{+0.4} _{-0.4}	276 ⁺¹⁸ ₋₁₈	1291	30.10 ^{+1.10} _{-1.10}	102.34 ^{+0.40} _{-0.40}	1.10E+38	4.24E+35
5332	58756.852900522	563.2 ^{+1.4} _{-1.4}	3.4 ^{+0.5} _{-0.5}	117 ⁺³⁷ ₋₃₇	1380	10.81 ^{+1.25} _{-1.25}	37.29 ^{+0.59} _{-0.59}	3.99E+37	6.29E+35
5333	58756.853030180	563.0 ^{+1.4} _{-1.4}	4.9 ^{+0.7} _{-0.7}	158 ⁺²⁴ ₋₂₄	1363	12.39 ^{+1.76} _{-1.76}	60.71 ^{+1.28} _{-1.28}	6.50E+37	1.38E+36
5334	58756.853469827	562.6 ^{+1.2} _{-1.2}	2.4 ^{+0.4} _{-0.4}	92 ⁺²⁴ ₋₂₄	1333	12.41 ^{+0.13} _{-0.13}	29.75 ^{+0.05} _{-0.05}	3.36E+37	5.74E+34
5335	58756.853651831	562.2 ^{+0.8} _{-0.8}	5.0 ^{+1.3} _{-1.3}	271 ⁺²⁷ ₋₂₇	1176	6.47 ^{+0.07} _{-0.07}	32.12 ^{+0.09} _{-0.09}	3.63E+37	9.79E+34
5336	58756.853879757	562.6 ^{+0.5} _{-0.5}	5.2 ^{+0.9} _{-0.9}	87 ⁺¹⁹ ₋₁₉	1436	8.81 ^{+0.10} _{-0.10}	46.18 ^{+0.09} _{-0.09}	5.22E+37	9.89E+34
5337	58756.853879984	563.8 ^{+0.6} _{-0.6}	1.9 ^{+0.1} _{-0.1}	161 ⁺¹⁷ ₋₁₇	1394	31.46 ^{+1.63} _{-1.63}	61.03 ^{+0.20} _{-0.20}	6.53E+37	2.09E+35
5338	58756.853883151	564.0 ^{+1.2} _{-1.2}	4.8 ^{+0.6} _{-0.6}	174 ⁺³⁴ ₋₃₄	1232	10.32 ^{+1.06} _{-1.06}	49.64 ^{+0.63} _{-0.63}	5.31E+37	6.69E+35
5339	58756.853988151	561.9 ^{+1.1} _{-1.1}	2.2 ^{+0.5} _{-0.5}	48 ⁺⁹ ₋₉	1063	4.99 ^{+0.05} _{-0.05}	10.82 ^{+0.03} _{-0.03}	1.22E+37	2.90E+34
5340	58756.854488151	562.9 ^{+1.5} _{-1.5}	6.7 ^{+2.4} _{-2.4}	85 ⁺²⁸ ₋₂₈	1088	5.82 ^{+0.06} _{-0.06}	38.82 ^{+0.15} _{-0.15}	4.39E+37	1.69E+35
5341	58756.855014333	564.8 ^{+0.5} _{-0.5}	2.8 ^{+0.3} _{-0.3}	109 ⁺⁴³ ₋₄₃	1255	17.27 ^{+1.35} _{-1.35}	48.18 ^{+0.35} _{-0.35}	5.16E+37	3.76E+35
5342	58756.855014684	563.1 ^{+1.1} _{-1.1}	6.8 ^{+0.7} _{-0.7}	118 ⁺²⁷ ₋₂₇	1385	10.37 ^{+0.85} _{-0.85}	70.20 ^{+0.58} _{-0.58}	7.52E+37	6.19E+35
5343	58756.855050797	563.2 ^{+0.9} _{-0.9}	6.0 ^{+1.6} _{-1.6}	68 ⁺⁵⁶ ₋₅₆	1183	7.28 ^{+0.08} _{-0.08}	43.42 ^{+0.12} _{-0.12}	4.91E+37	1.36E+35
5344	58756.855051057	562.2 ^{+1.4} _{-1.4}	2.9 ^{+0.6} _{-0.6}	112 ⁺⁷ ₋₇	1107	8.37 ^{+0.09} _{-0.09}	23.98 ^{+0.06} _{-0.06}	2.71E+37	6.39E+34
5345	58756.855204332	564.9 ^{+0.7} _{-0.7}	3.5 ^{+0.4} _{-0.4}	78 ⁺⁶⁶ ₋₆₆	1431	11.83 ^{+1.15} _{-1.15}	41.64 ^{+0.47} _{-0.47}	4.46E+37	5.05E+35
5346	58756.855204952	563.6 ^{+1.1} _{-1.1}	3.1 ^{+0.3} _{-0.3}	232 ⁺²⁸ ₋₂₈	1269	16.01 ^{+1.34} _{-1.34}	50.11 ^{+0.43} _{-0.43}	5.36E+37	4.59E+35
5347	58756.855205138	564.8 ^{+1.0} _{-1.0}	13.3 ^{+1.3} _{-1.3}	454 ⁺¹⁶ ₋₁₆	1270	15.53 ^{+0.17} _{-0.17}	206.36 ^{+0.22} _{-0.22}	2.33E+38	2.46E+35
5348	58756.855422840	563.6 ^{+1.3} _{-1.3}	4.1 ^{+0.6} _{-0.6}	136 ⁺²⁹ ₋₂₉	1111	7.57 ^{+0.08} _{-0.08}	30.73 ^{+0.37} _{-0.37}	3.29E+37	3.98E+35
5349	58756.855863722	563.8 ^{+0.4} _{-0.4}	2.2 ^{+0.3} _{-0.3}	97 ⁺⁴¹ ₋₄₁	1407	12.65 ^{+1.52} _{-1.52}	27.96 ^{+0.47} _{-0.47}	2.99E+37	5.04E+35
5350	58756.855934591	564.4 ^{+0.4} _{-0.4}	6.0 ^{+0.3} _{-0.3}	267 ⁺¹⁵ ₋₁₅	1302	26.09 ^{+0.98} _{-0.98}	156.54 ^{+0.26} _{-0.26}	1.68E+38	2.83E+35
5351	58756.856787208	564.0 ^{+0.8} _{-0.8}	2.4 ^{+0.4} _{-0.4}	57 ⁺¹² ₋₁₂	1411	10.06 ^{+1.48} _{-1.48}	23.84 ^{+0.61} _{-0.61}	2.55E+37	6.50E+35
5352	58756.857134020	563.8 ^{+1.3} _{-1.3}	3.4 ^{+0.4} _{-0.4}	177 ⁺¹² ₋₁₂	1403	10.83 ^{+1.16} _{-1.16}	37.26 ^{+0.51} _{-0.51}	3.99E+37	5.46E+35
5353	58756.857154928	563.8 ^{+1.3} _{-1.3}	4.3 ^{+0.5} _{-0.5}	199 ⁺³ ₋₃	1189	10.63 ^{+1.04} _{-1.04}	45.82 ^{+0.53} _{-0.53}	4.90E+37	5.68E+35
5354	58756.857291250	563.0 ^{+1.1} _{-1.1}	11.5 ^{+3.6} _{-3.6}	234 ⁺¹³⁸ ₋₁₃₈	1318	3.58 ^{+0.04} _{-0.04}	41.30 ^{+0.13} _{-0.13}	4.67E+37	1.51E+35
5355	58756.857501786	565.4 ^{+0.5} _{-0.5}	2.7 ^{+0.2} _{-0.2}	198 ⁺¹¹ ₋₁₁	1156	23.61 ^{+1.80} _{-1.80}	63.75 ^{+0.43} _{-0.43}	6.82E+37	4.62E+35
5356	58756.857501843	565.4 ^{+0.5} _{-0.5}	5.8 ^{+1.2} _{-1.2}	93 ⁺²⁰ ₋₂₀	1053	9.32 ^{+1.00} _{-1.00}	54.34 ^{+1.19} _{-1.19}	5.82E+37	1.27E+36
5357	58756.857631293	562.8 ^{+1.4} _{-1.4}	6.0 ^{+0.9} _{-0.9}	46 ⁺³¹ ₋₃₁	1131	3.93 ^{+0.04} _{-0.04}	23.41 ^{+0.28} _{-0.28}	2.51E+37	2.99E+35
5358	58756.857850465	562.8 ^{+1.2} _{-1.2}	8.2 ^{+3.0} _{-3.0}	98 ⁺³⁶ ₋₃₆	1410	4.77 ^{+0.05} _{-0.05}	39.19 ^{+0.15} _{-0.15}	4.43E+37	1.66E+35
5359	58756.858075481	565.4 ^{+0.3} _{-0.3}	3.4 ^{+0.2} _{-0.2}	158 ⁺³¹ ₋₃₁	1407	27.52 ^{+1.15} _{-1.15}	94.94 ^{+0.20} _{-0.20}	1.02E+38	2.09E+35
5360	58756.858316774	561.9 ^{+0.7} _{-0.7}	3.3 ^{+0.7} _{-0.7}	182 ⁺³³ ₋₃₃	1388	7.64 ^{+0.08} _{-0.08}	25.00 ^{+0.05} _{-0.05}	2.82E+37	5.94E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5361	58756.858532662	566.2 ^{+0.4} _{-0.4}	4.0 ^{+0.2} _{-0.2}	202 ⁺⁹ ₋₉	1393	31.01 ^{+1.15} _{-1.15}	124.35 ^{+0.21} _{-0.21}	1.33E+38	2.22E+35
5362	58756.858532712	566.2 ^{+0.4} _{-0.4}	3.5 ^{+0.4} _{-0.4}	269 ⁺²⁴ ₋₂₄	1338	29.86 ^{+0.98} _{-0.98}	104.51 ^{+0.44} _{-0.44}	1.12E+38	4.72E+35
5363	58756.858670637	563.6 ^{+1.3} _{-1.3}	4.9 ^{+0.8} _{-0.8}	77 ⁺³² ₋₃₂	1402	8.28 ^{+0.09} _{-0.09}	40.62 ^{+0.07} _{-0.07}	4.59E+37	7.91E+34
5364	58756.858723923	565.0 ^{+0.9} _{-0.9}	5.5 ^{+0.3} _{-0.3}	137 ⁺¹⁴ ₋₁₄	1422	19.69 ^{+0.96} _{-0.96}	107.51 ^{+0.31} _{-0.31}	1.15E+38	3.29E+35
5365	58756.858927903	562.8 ^{+1.0} _{-1.0}	12.1 ^{+1.7} _{-1.7}	195 ⁺⁵⁶ ₋₅₆	1188	4.92 ^{+0.05} _{-0.05}	59.58 ^{+0.71} _{-0.71}	6.38E+37	7.56E+35
5366	58756.859122112	562.9 ^{+1.2} _{-1.2}	5.3 ^{+0.9} _{-0.9}	51 ⁺³⁰ ₋₃₀	1356	9.12 ^{+0.09} _{-0.09}	47.97 ^{+0.08} _{-0.08}	5.42E+37	9.12E+34
5367	58756.859420513	564.2 ^{+0.8} _{-0.8}	2.8 ^{+0.5} _{-0.5}	93 ⁺²⁸ ₋₂₈	1434	8.51 ^{+0.09} _{-0.09}	24.01 ^{+0.04} _{-0.04}	2.71E+37	4.61E+34
5368	58756.859423263	564.0 ^{+0.9} _{-0.9}	2.7 ^{+0.3} _{-0.3}	77 ⁺³³ ₋₃₃	1170	9.22 ^{+0.10} _{-0.10}	25.08 ^{+0.03} _{-0.03}	2.83E+37	3.74E+34
5369	58756.859572139	563.9 ^{+0.2} _{-0.2}	2.7 ^{+0.4} _{-0.4}	245 ⁺¹¹ ₋₁₁	1199	19.26 ^{+2.24} _{-2.24}	51.62 ^{+0.78} _{-0.78}	5.53E+37	8.39E+35
5370	58756.859572182	563.9 ^{+0.2} _{-0.2}	8.5 ^{+1.3} _{-1.3}	236 ⁺¹⁵ ₋₁₅	1140	9.45 ^{+1.09} _{-1.09}	80.04 ^{+1.42} _{-1.42}	8.57E+37	1.52E+36
5371	58756.859762606	562.8 ^{+1.2} _{-1.2}	12.2 ^{+2.1} _{-2.1}	107 ⁺¹⁸ ₋₁₈	1351	7.23 ^{+0.07} _{-0.07}	88.56 ^{+0.15} _{-0.15}	1.00E+38	1.74E+35
5372	58756.859889703	562.8 ^{+1.4} _{-1.4}	6.4 ^{+0.9} _{-0.9}	148 ⁺²⁶ ₋₂₆	1211	9.06 ^{+0.09} _{-0.09}	57.91 ^{+0.09} _{-0.09}	6.54E+37	9.60E+34
5373	58756.859979305	563.6 ^{+1.1} _{-1.1}	7.5 ^{+1.1} _{-1.1}	83 ⁺³⁴ ₋₃₄	1185	9.08 ^{+0.09} _{-0.09}	68.20 ^{+0.11} _{-0.11}	7.70E+37	1.19E+35
5374	58756.859979610	563.3 ^{+1.2} _{-1.2}	6.1 ^{+1.3} _{-1.3}	132 ⁺⁶⁵ ₋₆₅	1236	5.56 ^{+0.06} _{-0.06}	33.80 ^{+0.07} _{-0.07}	3.82E+37	8.18E+34
5375	58756.860137484	563.0 ^{+1.4} _{-1.4}	8.4 ^{+3.1} _{-3.1}	71 ⁺⁹ ₋₉	1432	4.24 ^{+0.04} _{-0.04}	35.79 ^{+0.13} _{-0.13}	4.04E+37	1.50E+35
5376	58756.860255325	564.2 ^{+1.2} _{-1.2}	6.3 ^{+0.7} _{-0.7}	361 ⁺²⁸ ₋₂₈	1316	21.02 ^{+1.07} _{-1.07}	132.43 ^{+0.79} _{-0.79}	1.42E+38	8.48E+35
5377	58756.860255361	565.5 ^{+0.5} _{-0.5}	4.4 ^{+0.8} _{-0.8}	349 ⁺¹⁹ ₋₁₉	1186	12.72 ^{+2.02} _{-2.02}	56.60 ^{+1.58} _{-1.58}	6.06E+37	1.69E+36
5378	58756.860255727	564.4 ^{+0.5} _{-0.5}	4.2 ^{+0.7} _{-0.7}	139 ⁺⁴¹ ₋₄₁	1421	9.52 ^{+0.10} _{-0.10}	40.29 ^{+0.07} _{-0.07}	4.55E+37	7.83E+34
5379	58756.860424458	564.0 ^{+0.4} _{-0.4}	3.4 ^{+0.3} _{-0.3}	170 ⁺²² ₋₂₂	1232	16.25 ^{+1.20} _{-1.20}	54.76 ^{+0.35} _{-0.35}	5.86E+37	3.73E+35
5380	58756.861052112	562.9 ^{+1.4} _{-1.4}	5.3 ^{+0.6} _{-0.6}	186 ⁺²² ₋₂₂	1251	9.71 ^{+0.10} _{-0.10}	51.27 ^{+0.05} _{-0.05}	5.79E+37	6.14E+34
5381	58756.861351160	565.1 ^{+0.5} _{-0.5}	2.5 ^{+0.5} _{-0.5}	231 ⁺²³ ₋₂₃	1236	18.38 ^{+1.93} _{-1.93}	46.32 ^{+0.95} _{-0.95}	4.96E+37	1.01E+36
5382	58756.861351190	565.1 ^{+0.5} _{-0.5}	2.4 ^{+0.9} _{-0.9}	256 ⁺¹³ ₋₁₃	1221	9.58 ^{+2.16} _{-2.16}	22.99 ^{+1.88} _{-1.88}	2.46E+37	2.01E+36
5383	58756.861482876	563.3 ^{+0.8} _{-0.8}	2.3 ^{+0.3} _{-0.3}	78 ⁺³³ ₋₃₃	1379	6.47 ^{+0.07} _{-0.07}	14.92 ^{+0.02} _{-0.02}	1.69E+37	2.50E+34
5384	58756.861483019	562.9 ^{+1.3} _{-1.3}	2.5 ^{+1.0} _{-1.0}	81 ⁺¹⁸ ₋₁₈	1405	3.61 ^{+0.04} _{-0.04}	8.99 ^{+0.04} _{-0.04}	1.02E+37	4.04E+34
5385	58756.861483755	564.1 ^{+1.1} _{-1.1}	2.7 ^{+0.2} _{-0.2}	143 ⁺²² ₋₂₂	1381	21.31 ^{+1.28} _{-1.28}	56.68 ^{+0.24} _{-0.24}	6.07E+37	2.60E+35
5386	58756.861483758	564.1 ^{+1.1} _{-1.1}	2.1 ^{+0.2} _{-0.2}	152 ⁺²⁶ ₋₂₆	1365	19.87 ^{+1.10} _{-1.10}	42.52 ^{+0.25} _{-0.25}	4.55E+37	2.71E+35
5387	58756.861520236	563.2 ^{+0.2} _{-0.2}	2.2 ^{+0.2} _{-0.2}	121 ⁺³⁶ ₋₃₆	1332	27.55 ^{+1.60} _{-1.60}	59.78 ^{+0.24} _{-0.24}	6.40E+37	2.57E+35
5388	58756.861520278	563.2 ^{+0.2} _{-0.2}	2.2 ^{+0.4} _{-0.4}	225 ⁺¹⁷ ₋₁₇	1315	26.66 ^{+1.20} _{-1.20}	58.65 ^{+0.42} _{-0.42}	6.28E+37	4.50E+35
5389	58756.861564331	562.9 ^{+1.3} _{-1.3}	9.0 ^{+1.7} _{-1.7}	75 ⁺³² ₋₃₂	1351	9.83 ^{+0.10} _{-0.10}	88.44 ^{+0.17} _{-0.17}	9.99E+37	1.89E+35
5390	58756.861564616	563.7 ^{+0.9} _{-0.9}	4.2 ^{+0.6} _{-0.6}	231 ⁺¹⁶ ₋₁₆	1379	20.16 ^{+2.62} _{-2.62}	85.48 ^{+1.60} _{-1.60}	9.15E+37	1.71E+36
5391	58756.861564670	563.4 ^{+1.3} _{-1.3}	4.6 ^{+1.6} _{-1.6}	237 ⁺⁸ ₋₈	1375	8.68 ^{+2.05} _{-2.05}	40.10 ^{+3.38} _{-3.38}	4.29E+37	3.62E+36
5392	58756.861772599	563.8 ^{+0.3} _{-0.3}	3.0 ^{+0.4} _{-0.4}	157 ⁺⁸ ₋₈	1105	10.25 ^{+1.21} _{-1.21}	30.85 ^{+0.52} _{-0.52}	3.30E+37	5.57E+35
5393	58756.861873762	564.8 ^{+1.0} _{-1.0}	3.4 ^{+0.2} _{-0.2}	309 ⁺²³ ₋₂₃	1262	20.83 ^{+1.18} _{-1.18}	69.78 ^{+0.26} _{-0.26}	7.47E+37	2.78E+35
5394	58756.861914240	563.8 ^{+0.0} _{-0.0}	2.2 ^{+0.0} _{-0.0}	451 ⁺²⁸ ₋₂₈	1274	278.01 ^{+9.86} _{-9.86}	617.18 ^{+0.39} _{-0.39}	6.61E+38	4.22E+35
5395	58756.861914266	563.8 ^{+0.0} _{-0.0}	3.3 ^{+0.0} _{-0.0}	486 ⁺¹¹ ₋₁₁	1246	375.56 ^{+4.02} _{-4.02}	1243.10 ^{+0.20} _{-0.20}	1.33E+39	2.15E+35
5396	58756.862031211	563.3 ^{+1.9} _{-1.9}	3.0 ^{+0.5} _{-0.5}	165 ⁺¹³ ₋₁₃	1362	10.53 ^{+0.10} _{-0.10}	31.49 ^{+0.05} _{-0.05}	3.56E+37	5.66E+34
5397	58756.862031503	565.4 ^{+0.1} _{-0.1}	2.4 ^{+0.0} _{-0.0}	494 ⁺³ ₋₃	1252	263.84 ^{+7.93} _{-7.93}	633.22 ^{+0.40} _{-0.40}	6.78E+38	4.24E+35
5398	58756.862031531	565.4 ^{+0.1} _{-0.1}	5.0 ^{+0.2} _{-0.2}	484 ⁺⁵ ₋₅	1257	131.39 ^{+2.59} _{-2.59}	653.01 ^{+0.47} _{-0.47}	6.99E+38	4.99E+35
5399	58756.862031534	565.4 ^{+0.1} _{-0.1}	2.3 ^{+0.2} _{-0.2}	358 ⁺¹⁴ ₋₁₄	1182	51.33 ^{+1.20} _{-1.20}	118.57 ^{+0.28} _{-0.28}	1.27E+38	2.95E+35
5400	58756.862269302	563.0 ^{+1.3} _{-1.3}	3.3 ^{+0.8} _{-0.8}	50 ⁺²⁵ ₋₂₅	1376	5.91 ^{+0.06} _{-0.06}	19.34 ^{+0.05} _{-0.05}	2.19E+37	5.54E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5401	58756.862269605	562.5 ^{+1.2} _{-1.2}	9.8 ^{+1.7} _{-1.7}	156 ⁺³⁹ ₋₃₉	1361	5.20 ^{+0.72} _{-0.72}	50.96 ^{+1.25} _{-1.25}	5.46E+37	1.34E+36
5402	58756.862460290	564.1 ^{+0.8} _{-0.8}	4.8 ^{+0.6} _{-0.6}	74 ⁺²¹ ₋₂₁	1148	9.11 ^{+0.09} _{-0.09}	43.65 ^{+0.06} _{-0.06}	4.93E+37	6.63E+34
5403	58756.862510437	564.3 ^{+1.0} _{-1.0}	3.0 ^{+0.4} _{-0.4}	116 ⁺¹³ ₋₁₃	1429	9.77 ^{+0.10} _{-0.10}	29.72 ^{+0.04} _{-0.04}	3.36E+37	4.64E+34
5404	58756.863207103	565.4 ^{+1.0} _{-1.0}	7.3 ^{+0.5} _{-0.5}	216 ⁺¹² ₋₁₂	1200	15.35 ^{+0.83} _{-0.83}	112.52 ^{+0.41} _{-0.41}	1.20E+38	4.35E+35
5405	58756.863758718	563.9 ^{+0.9} _{-0.9}	5.4 ^{+0.6} _{-0.6}	151 ⁺³⁹ ₋₃₉	1303	9.84 ^{+0.92} _{-0.92}	53.33 ^{+0.56} _{-0.56}	5.71E+37	6.01E+35
5406	58756.863762048	564.1 ^{+1.1} _{-1.1}	4.1 ^{+0.7} _{-0.7}	98 ⁺⁴¹ ₋₄₁	1280	9.46 ^{+0.09} _{-0.09}	39.14 ^{+0.06} _{-0.06}	4.42E+37	7.30E+34
5407	58756.863815759	564.4 ^{+0.6} _{-0.6}	2.5 ^{+0.2} _{-0.2}	145 ⁺³² ₋₃₂	1355	16.75 ^{+0.17} _{-0.17}	42.42 ^{+0.04} _{-0.04}	4.79E+37	4.11E+34
5408	58756.864388949	563.0 ^{+1.3} _{-1.3}	6.2 ^{+2.0} _{-2.0}	96 ⁺¹⁸ ₋₁₈	1428	5.11 ^{+0.05} _{-0.05}	31.87 ^{+0.10} _{-0.10}	3.60E+37	1.14E+35
5409	58756.864478543	564.8 ^{+0.5} _{-0.5}	3.6 ^{+0.3} _{-0.3}	102 ⁺²² ₋₂₂	1320	14.46 ^{+1.14} _{-1.14}	51.91 ^{+0.39} _{-0.39}	5.56E+37	4.15E+35
5410	58756.864977627	562.6 ^{+1.0} _{-1.0}	3.0 ^{+0.5} _{-0.5}	122 ⁺²⁹ ₋₂₉	1345	11.89 ^{+0.12} _{-0.12}	35.49 ^{+0.05} _{-0.05}	4.01E+37	6.11E+34
5411	58756.865080462	563.3 ^{+1.2} _{-1.2}	5.2 ^{+1.2} _{-1.2}	59 ⁺⁵¹ ₋₅₁	1377	6.60 ^{+0.06} _{-0.06}	34.29 ^{+0.08} _{-0.08}	3.87E+37	8.68E+34
5412	58756.865161254	563.6 ^{+0.0} _{-0.0}	2.2 ^{+2.0} _{-2.0}	429 ⁺⁶² ₋₆₂	1285	1.65 ^{+1.25} _{-1.25}	3.63 ^{+2.44} _{-2.44}	3.89E+36	2.61E+36
5413	58756.865162220	563.6 ^{+0.0} _{-0.0}	2.0 ^{+0.0} _{-0.0}	471 ⁺¹² ₋₁₂	1264	591.29 ^{+3.35} _{-3.35}	1212.14 ^{+0.03} _{-0.03}	1.30E+39	3.59E+34
5414	58756.865162269	563.6 ^{+0.0} _{-0.0}	1.1 ^{+0.3} _{-0.3}	495 ⁺² ₋₂	1252	5.74 ^{+0.72} _{-0.72}	6.20 ^{+0.22} _{-0.22}	6.64E+36	2.39E+35
5415	58756.865487107	563.4 ^{+1.2} _{-1.2}	3.2 ^{+0.3} _{-0.3}	125 ⁺²² ₋₂₂	1420	14.18 ^{+1.14} _{-1.14}	45.66 ^{+0.34} _{-0.34}	4.89E+37	3.66E+35
5416	58756.866672312	563.6 ^{+0.4} _{-0.4}	2.8 ^{+0.4} _{-0.4}	293 ⁺⁴² ₋₄₂	1351	22.11 ^{+3.92} _{-3.92}	62.57 ^{+1.45} _{-1.45}	6.70E+37	1.55E+36
5417	58756.866672362	563.6 ^{+0.4} _{-0.4}	6.0 ^{+0.7} _{-0.7}	392 ⁺¹² ₋₁₂	1303	44.02 ^{+1.39} _{-1.39}	261.92 ^{+1.01} _{-1.01}	2.80E+38	1.09E+36
5418	58756.867364220	563.3 ^{+1.1} _{-1.1}	4.2 ^{+1.1} _{-1.1}	49 ⁺¹⁶ ₋₁₆	1391	6.67 ^{+0.06} _{-0.06}	28.04 ^{+0.07} _{-0.07}	3.17E+37	7.75E+34
5419	58756.867364498	563.5 ^{+0.9} _{-0.9}	4.8 ^{+0.3} _{-0.3}	166 ⁺¹⁷ ₋₁₇	1406	16.22 ^{+0.96} _{-0.96}	78.18 ^{+0.33} _{-0.33}	8.37E+37	3.49E+35
5420	58756.867445802	563.6 ^{+1.3} _{-1.3}	3.7 ^{+0.4} _{-0.4}	104 ⁺³² ₋₃₂	1309	12.75 ^{+1.03} _{-1.03}	47.05 ^{+0.36} _{-0.36}	5.04E+37	3.86E+35
5421	58756.867446156	562.6 ^{+1.3} _{-1.3}	3.4 ^{+1.1} _{-1.1}	175 ⁺⁵ ₋₅	1310	5.12 ^{+0.05} _{-0.05}	17.39 ^{+0.06} _{-0.06}	1.97E+37	6.23E+34
5422	58756.867581346	563.7 ^{+1.2} _{-1.2}	7.2 ^{+2.1} _{-2.1}	179 ⁺⁵⁴ ₋₅₄	1273	7.22 ^{+0.07} _{-0.07}	51.72 ^{+0.15} _{-0.15}	5.84E+37	1.66E+35
5423	58756.867581829	562.7 ^{+1.2} _{-1.2}	2.7 ^{+1.2} _{-1.2}	70 ⁺⁴⁰ ₋₄₀	1117	6.16 ^{+0.06} _{-0.06}	16.77 ^{+0.07} _{-0.07}	1.89E+37	8.29E+34
5424	58756.867816731	563.3 ^{+1.4} _{-1.4}	5.7 ^{+0.9} _{-0.9}	99 ⁺³⁰ ₋₃₀	1134	8.99 ^{+0.09} _{-0.09}	51.00 ^{+0.07} _{-0.07}	5.76E+37	8.35E+34
5425	58756.867994714	563.6 ^{+0.9} _{-0.9}	3.1 ^{+0.3} _{-0.3}	214 ⁺²¹ ₋₂₁	1381	13.71 ^{+0.13} _{-0.13}	42.77 ^{+0.04} _{-0.04}	4.83E+37	4.23E+34
5426	58756.868336917	563.4 ^{+1.1} _{-1.1}	4.8 ^{+0.5} _{-0.5}	149 ⁺⁵⁷ ₋₅₇	1337	10.60 ^{+0.10} _{-0.10}	51.28 ^{+0.05} _{-0.05}	5.79E+37	5.84E+34
5427	58756.868867954	564.2 ^{+1.1} _{-1.1}	3.7 ^{+0.6} _{-0.6}	112 ⁺²⁸ ₋₂₈	1420	11.94 ^{+0.11} _{-0.11}	43.72 ^{+0.07} _{-0.07}	4.94E+37	8.16E+34
5428	58756.869659511	563.3 ^{+1.2} _{-1.2}	4.2 ^{+0.8} _{-0.8}	153 ⁺³⁹ ₋₃₉	1246	9.33 ^{+0.09} _{-0.09}	39.11 ^{+0.07} _{-0.07}	4.42E+37	7.58E+34
5429	58756.870642169	564.0 ^{+1.1} _{-1.1}	4.7 ^{+0.6} _{-0.6}	144 ⁺⁶¹ ₋₆₁	1311	11.79 ^{+0.11} _{-0.11}	55.41 ^{+0.07} _{-0.07}	6.26E+37	7.62E+34
5430	58756.871034258	565.2 ^{+0.7} _{-0.7}	5.8 ^{+0.3} _{-0.3}	237 ⁺³⁷ ₋₃₇	1355	21.11 ^{+0.87} _{-0.87}	122.65 ^{+0.25} _{-0.25}	1.31E+38	2.70E+35
5431	58756.871034334	565.2 ^{+0.7} _{-0.7}	3.2 ^{+0.3} _{-0.3}	55 ⁺²⁴ ₋₂₄	1102	20.87 ^{+0.43} _{-0.43}	66.99 ^{+0.13} _{-0.13}	7.17E+37	1.43E+35
5432	58756.871034731	563.3 ^{+1.2} _{-1.2}	4.0 ^{+1.0} _{-1.0}	101 ⁺⁹⁵ ₋₉₅	1094	7.28 ^{+0.07} _{-0.07}	29.34 ^{+0.07} _{-0.07}	3.32E+37	8.07E+34
5433	58756.871775177	564.3 ^{+1.0} _{-1.0}	9.0 ^{+0.8} _{-0.8}	169 ⁺¹³ ₋₁₃	1117	9.53 ^{+0.66} _{-0.66}	85.77 ^{+0.52} _{-0.52}	9.18E+37	5.58E+35
5434	58756.872276588	562.6 ^{+0.4} _{-0.4}	7.3 ^{+1.1} _{-1.1}	142 ⁺²⁷ ₋₂₇	1084	4.96 ^{+0.04} _{-0.04}	36.44 ^{+0.38} _{-0.38}	3.90E+37	4.05E+35
5435	58756.872281529	563.0 ^{+1.1} _{-1.1}	6.2 ^{+0.9} _{-0.9}	102 ⁺³⁷ ₋₃₇	1171	6.32 ^{+0.78} _{-0.78}	38.99 ^{+0.73} _{-0.73}	4.17E+37	7.77E+35
5436	58756.872341493	563.3 ^{+1.1} _{-1.1}	4.7 ^{+0.6} _{-0.6}	128 ⁺²⁶ ₋₂₆	1189	8.37 ^{+0.87} _{-0.87}	39.00 ^{+0.50} _{-0.50}	4.18E+37	5.40E+35
5437	58756.872341828	563.4 ^{+1.2} _{-1.2}	6.0 ^{+2.5} _{-2.5}	119 ⁺⁷⁵ ₋₇₅	1106	6.93 ^{+0.06} _{-0.06}	41.76 ^{+0.16} _{-0.16}	4.72E+37	1.78E+35
5438	58756.872342002	563.0 ^{+1.4} _{-1.4}	4.8 ^{+1.6} _{-1.6}	108 ⁺⁴⁸ ₋₄₈	1150	5.61 ^{+0.05} _{-0.05}	27.11 ^{+0.08} _{-0.08}	3.06E+37	9.12E+34
5439	58756.872432462	563.9 ^{+0.3} _{-0.3}	3.0 ^{+0.3} _{-0.3}	106 ⁺³⁵ ₋₃₅	1399	11.15 ^{+1.00} _{-1.00}	33.67 ^{+0.32} _{-0.32}	3.60E+37	3.43E+35
5440	58756.872432466	563.9 ^{+0.3} _{-0.3}	2.0 ^{+0.2} _{-0.2}	137 ⁺³⁰ ₋₃₀	1397	10.81 ^{+0.90} _{-0.90}	22.05 ^{+0.19} _{-0.19}	2.36E+37	2.02E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5441	58756.873244639	563.6 ^{+1.4} _{-1.4}	10.3 ^{+2.0} _{-2.0}	118 ⁺²⁴ ₋₂₄	1265	6.76 ^{+0.06} _{-0.06}	69.90 ^{+0.12} _{-0.12}	7.90E+37	1.40E+35
5442	58756.873272599	563.1 ^{+1.3} _{-1.3}	5.3 ^{+3.0} _{-3.0}	268 ⁺⁶ ₋₆	1297	2.80 ^{+0.03} _{-0.03}	14.80 ^{+0.08} _{-0.08}	1.67E+37	8.51E+34
5443	58756.873437824	565.3 ^{+0.7} _{-0.7}	3.1 ^{+0.2} _{-0.2}	201 ⁺¹⁹ ₋₁₉	1334	23.02 ^{+1.10} _{-1.10}	72.05 ^{+0.20} _{-0.20}	7.71E+37	2.12E+35
5444	58756.873437831	565.3 ^{+0.7} _{-0.7}	2.1 ^{+0.2} _{-0.2}	227 ⁺¹⁶ ₋₁₆	1302	21.92 ^{+1.30} _{-1.30}	46.47 ^{+0.26} _{-0.26}	4.97E+37	2.78E+35
5445	58756.873438602	564.7 ^{+0.8} _{-0.8}	7.7 ^{+0.4} _{-0.4}	244 ⁺²⁰ ₋₂₀	1291	22.80 ^{+0.97} _{-0.97}	175.79 ^{+0.40} _{-0.40}	1.88E+38	4.26E+35
5446	58756.873438644	564.7 ^{+0.8} _{-0.8}	3.1 ^{+0.2} _{-0.2}	359 ⁺³² ₋₃₂	1258	24.30 ^{+1.30} _{-1.30}	75.33 ^{+0.30} _{-0.30}	8.06E+37	3.20E+35
5447	58756.873922150	562.6 ^{+1.4} _{-1.4}	3.4 ^{+0.6} _{-0.6}	85 ⁺¹⁹ ₋₁₉	1403	7.71 ^{+0.07} _{-0.07}	26.15 ^{+0.04} _{-0.04}	2.96E+37	4.74E+34
5448	58756.873922549	563.1 ^{+1.3} _{-1.3}	5.4 ^{+1.3} _{-1.3}	197 ⁺⁸⁹ ₋₈₉	1312	3.88 ^{+0.04} _{-0.04}	21.11 ^{+0.05} _{-0.05}	2.38E+37	5.28E+34
5449	58756.874419061	562.9 ^{+1.2} _{-1.2}	5.5 ^{+0.7} _{-0.7}	191 ⁺¹² ₋₁₂	1201	8.29 ^{+0.84} _{-0.84}	45.51 ^{+0.56} _{-0.56}	4.87E+37	6.02E+35
5450	58756.875038302	562.0 ^{+1.0} _{-1.0}	3.8 ^{+1.5} _{-1.5}	93 ⁺⁶ ₋₆	1394	3.47 ^{+0.03} _{-0.03}	13.17 ^{+0.05} _{-0.05}	1.49E+37	5.23E+34
5451	58756.875039279	562.2 ^{+0.9} _{-0.9}	7.1 ^{+1.3} _{-1.3}	91 ⁺⁴ ₋₄	1380	6.49 ^{+0.06} _{-0.06}	46.02 ^{+0.08} _{-0.08}	5.20E+37	8.49E+34
5452	58756.875135380	562.1 ^{+1.1} _{-1.1}	8.1 ^{+1.6} _{-1.6}	61 ⁺¹⁴ ₋₁₄	1038	6.17 ^{+0.06} _{-0.06}	49.80 ^{+0.09} _{-0.09}	5.63E+37	1.01E+35
5453	58756.875193996	562.9 ^{+1.2} _{-1.2}	3.6 ^{+0.8} _{-0.8}	55 ⁺¹³ ₋₁₃	1353	7.90 ^{+0.07} _{-0.07}	28.06 ^{+0.05} _{-0.05}	3.17E+37	6.10E+34
5454	58756.875585093	563.9 ^{+1.4} _{-1.4}	5.0 ^{+0.4} _{-0.4}	153 ⁺²⁰ ₋₂₀	1386	12.69 ^{+0.84} _{-0.84}	63.70 ^{+0.34} _{-0.34}	6.82E+37	3.60E+35
5455	58756.875712539	562.9 ^{+1.4} _{-1.4}	11.1 ^{+1.5} _{-1.5}	137 ⁺²³ ₋₂₃	1118	5.95 ^{+0.59} _{-0.59}	66.28 ^{+0.87} _{-0.87}	7.10E+37	9.28E+35
5456	58756.875715916	562.8 ^{+1.1} _{-1.1}	3.1 ^{+0.9} _{-0.9}	51 ⁺²⁸ ₋₂₈	1406	5.96 ^{+0.05} _{-0.05}	18.74 ^{+0.05} _{-0.05}	2.12E+37	5.61E+34
5457	58756.875880846	564.1 ^{+1.0} _{-1.0}	4.9 ^{+0.5} _{-0.5}	201 ⁺⁵² ₋₅₂	1375	11.60 ^{+0.90} _{-0.90}	57.19 ^{+0.41} _{-0.41}	6.12E+37	4.43E+35
5458	58756.875880944	564.8 ^{+0.5} _{-0.5}	7.6 ^{+0.9} _{-0.9}	122 ⁺⁵⁸ ₋₅₈	1284	7.45 ^{+0.76} _{-0.76}	56.40 ^{+0.71} _{-0.71}	6.04E+37	7.57E+35
5459	58756.875880973	564.8 ^{+0.5} _{-0.5}	3.2 ^{+0.4} _{-0.4}	187 ⁺⁴¹ ₋₄₁	1197	6.32 ^{+0.78} _{-0.78}	20.29 ^{+0.35} _{-0.35}	2.17E+37	3.76E+35
5460	58756.876048923	560.8 ^{+0.2} _{-0.2}	6.5 ^{+1.7} _{-1.7}	140 ⁺²⁰ ₋₂₀	1234	8.66 ^{+0.08} _{-0.08}	56.53 ^{+0.13} _{-0.13}	6.39E+37	1.49E+35
5461	58756.876444475	563.3 ^{+0.5} _{-0.5}	3.4 ^{+0.4} _{-0.4}	88 ⁺²³ ₋₂₃	1344	10.98 ^{+1.00} _{-1.00}	37.77 ^{+0.37} _{-0.37}	4.04E+37	3.96E+35
5462	58756.876444480	563.3 ^{+0.5} _{-0.5}	2.8 ^{+0.6} _{-0.6}	179 ⁺²⁴ ₋₂₄	1300	11.23 ^{+0.89} _{-0.89}	30.99 ^{+0.50} _{-0.50}	3.32E+37	5.34E+35
5463	58756.876623259	562.8 ^{+1.3} _{-1.3}	5.3 ^{+0.8} _{-0.8}	91 ⁺³ ₋₃	1085	7.18 ^{+0.06} _{-0.06}	38.09 ^{+0.38} _{-0.38}	4.08E+37	4.09E+35
5464	58756.876716093	564.2 ^{+1.0} _{-1.0}	4.9 ^{+0.7} _{-0.7}	101 ⁺²⁹ ₋₂₉	1176	11.32 ^{+0.10} _{-0.10}	55.02 ^{+0.07} _{-0.07}	6.22E+37	7.90E+34
5465	58756.877391875	562.9 ^{+0.4} _{-0.4}	5.0 ^{+0.4} _{-0.4}	185 ⁺²⁶ ₋₂₆	1388	11.72 ^{+0.85} _{-0.85}	59.19 ^{+0.37} _{-0.37}	6.34E+37	4.00E+35
5466	58756.878030678	563.1 ^{+1.2} _{-1.2}	4.4 ^{+0.4} _{-0.4}	134 ⁺³⁰ ₋₃₀	1409	11.17 ^{+0.93} _{-0.93}	49.04 ^{+0.41} _{-0.41}	5.25E+37	4.38E+35
5467	58756.878030693	563.1 ^{+1.2} _{-1.2}	3.2 ^{+0.5} _{-0.5}	153 ⁺³⁴ ₋₃₄	1390	10.92 ^{+0.95} _{-0.95}	35.05 ^{+0.49} _{-0.49}	3.75E+37	5.29E+35
5468	58756.878032383	564.5 ^{+1.2} _{-1.2}	6.5 ^{+0.8} _{-0.8}	200 ⁺²⁹ ₋₂₉	1210	8.03 ^{+0.79} _{-0.79}	52.03 ^{+0.62} _{-0.62}	5.57E+37	6.60E+35
5469	58756.878228817	562.0 ^{+0.9} _{-0.9}	2.4 ^{+0.4} _{-0.4}	74 ⁺⁴ ₋₄	1394	7.98 ^{+0.07} _{-0.07}	19.23 ^{+0.03} _{-0.03}	2.17E+37	2.90E+34
5470	58756.878827564	564.4 ^{+0.6} _{-0.6}	3.3 ^{+0.3} _{-0.3}	283 ⁺⁴⁷ ₋₄₇	1321	14.68 ^{+1.09} _{-1.09}	48.88 ^{+0.32} _{-0.32}	5.23E+37	3.38E+35
5471	58756.879004003	564.0 ^{+1.3} _{-1.3}	6.2 ^{+0.7} _{-0.7}	305 ⁺⁷⁵ ₋₇₅	1234	13.94 ^{+0.12} _{-0.12}	85.85 ^{+0.08} _{-0.08}	9.70E+37	9.11E+34
5472	58756.879004347	564.1 ^{+0.4} _{-0.4}	2.0 ^{+0.0} _{-0.0}	266 ⁺⁵⁴ ₋₅₄	1366	76.93 ^{+1.47} _{-1.47}	156.17 ^{+0.07} _{-0.07}	1.67E+38	7.87E+34
5473	58756.879004356	564.2 ^{+0.4} _{-0.4}	3.1 ^{+0.3} _{-0.3}	177 ⁺²⁷ ₋₂₇	1410	75.39 ^{+1.56} _{-1.56}	233.71 ^{+0.50} _{-0.50}	2.50E+38	5.34E+35
5474	58756.879334457	563.4 ^{+1.3} _{-1.3}	3.8 ^{+0.8} _{-0.8}	174 ⁺³⁷ ₋₃₇	1399	10.41 ^{+0.09} _{-0.09}	39.13 ^{+0.07} _{-0.07}	4.42E+37	8.43E+34
5475	58756.879726889	563.6 ^{+1.2} _{-1.2}	2.2 ^{+0.6} _{-0.6}	128 ⁺⁶ ₋₆	1295	5.16 ^{+0.04} _{-0.04}	11.09 ^{+0.03} _{-0.03}	1.25E+37	3.09E+34
5476	58756.879727021	564.6 ^{+0.8} _{-0.8}	4.1 ^{+0.3} _{-0.3}	155 ⁺³⁰ ₋₃₀	1307	15.07 ^{+0.96} _{-0.96}	61.94 ^{+0.30} _{-0.30}	6.63E+37	3.19E+35
5477	58756.879727059	564.0 ^{+1.3} _{-1.3}	4.6 ^{+0.6} _{-0.6}	187 ⁺³¹ ₋₃₁	1291	14.19 ^{+0.88} _{-0.88}	64.71 ^{+0.49} _{-0.49}	6.93E+37	5.28E+35
5478	58756.879727568	563.2 ^{+1.3} _{-1.3}	5.1 ^{+1.6} _{-1.6}	141 ⁺⁴ ₋₄	1123	5.74 ^{+0.05} _{-0.05}	29.05 ^{+0.08} _{-0.08}	3.28E+37	8.76E+34
5479	58756.879730679	563.8 ^{+1.2} _{-1.2}	3.5 ^{+0.4} _{-0.4}	135 ⁺²⁶ ₋₂₆	1145	16.42 ^{+0.14} _{-0.14}	58.06 ^{+0.06} _{-0.06}	6.56E+37	6.45E+34
5480	58756.880179953	563.2 ^{+1.1} _{-1.1}	9.2 ^{+1.7} _{-1.7}	99 ⁺⁵⁹ ₋₅₉	1368	6.14 ^{+0.05} _{-0.05}	56.58 ^{+0.09} _{-0.09}	6.39E+37	9.97E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5481	58756.880600533	562.6 ^{+1.2} _{-1.2}	19.7 ^{+2.4} _{-2.4}	196 ⁺⁴⁸ ₋₄₈	1322	10.95 ^{+0.09} _{-0.09}	215.77 ^{+0.22} _{-0.22}	2.44E+38	2.50E+35
5482	58756.880600906	563.7 ^{+0.5} _{-0.5}	7.7 ^{+1.1} _{-1.1}	135 ⁺²¹ ₋₂₁	1246	12.28 ^{+0.10} _{-0.10}	94.26 ^{+0.11} _{-0.11}	1.07E+38	1.28E+35
5483	58756.880848454	563.9 ^{+1.0} _{-1.0}	5.5 ^{+1.0} _{-1.0}	106 ⁺⁸² ₋₈₂	1378	6.86 ^{+0.06} _{-0.06}	38.00 ^{+0.06} _{-0.06}	4.29E+37	6.65E+34
5484	58756.880909428	563.5 ^{+1.3} _{-1.3}	2.1 ^{+0.4} _{-0.4}	60 ⁺³ ₋₃	1406	5.85 ^{+0.05} _{-0.05}	12.12 ^{+0.02} _{-0.02}	1.37E+37	2.45E+34
5485	58756.881927148	565.0 ^{+0.2} _{-0.2}	4.2 ^{+0.1} _{-0.1}	351 ⁺³² ₋₃₂	1277	58.59 ^{+0.49} _{-0.49}	249.01 ^{+0.05} _{-0.05}	2.81E+38	5.57E+34
5486	58757.896626287	564.3 ^{+0.4} _{-0.4}	6.1 ^{+0.9} _{-0.9}	220 ⁺¹⁸ ₋₁₈	1366	14.27 ^{+0.11} _{-0.11}	87.32 ^{+0.74} _{-0.74}	9.35E+37	7.94E+35
5487	58757.897584616	563.9 ^{+1.1} _{-1.1}	3.6 ^{+0.8} _{-0.8}	146 ⁺²⁶ ₋₂₆	1237	7.58 ^{+0.06} _{-0.06}	27.14 ^{+0.04} _{-0.04}	3.07E+37	4.95E+34
5488	58757.898426615	565.6 ^{+0.8} _{-0.8}	3.4 ^{+0.4} _{-0.4}	66 ⁺¹⁹ ₋₁₉	1335	8.70 ^{+0.97} _{-0.97}	29.84 ^{+0.44} _{-0.44}	3.19E+37	4.67E+35
5489	58757.898426747	566.0 ^{+0.9} _{-0.9}	3.4 ^{+0.2} _{-0.2}	264 ⁺¹⁵ ₋₁₅	1324	25.82 ^{+0.97} _{-0.97}	87.53 ^{+0.15} _{-0.15}	9.37E+37	1.56E+35
5490	58757.898431176	561.8 ^{+0.9} _{-0.9}	1.9 ^{+0.2} _{-0.2}	71 ⁺⁴ ₋₄	1392	12.54 ^{+1.26} _{-1.26}	23.70 ^{+0.28} _{-0.28}	2.54E+37	2.97E+35
5491	58757.898630258	564.0 ^{+1.2} _{-1.2}	6.6 ^{+0.7} _{-0.7}	161 ⁺¹⁵ ₋₁₅	1252	7.46 ^{+0.66} _{-0.66}	49.24 ^{+0.47} _{-0.47}	5.27E+37	5.02E+35
5492	58757.898630758	564.5 ^{+0.6} _{-0.6}	4.1 ^{+0.8} _{-0.8}	153 ⁺³² ₋₃₂	1118	5.08 ^{+0.83} _{-0.83}	20.88 ^{+0.66} _{-0.66}	2.24E+37	7.11E+35
5493	58757.898631011	563.6 ^{+1.0} _{-1.0}	3.3 ^{+1.0} _{-1.0}	337 ⁺¹¹⁹ ₋₁₁₉	1223	8.11 ^{+0.06} _{-0.06}	27.02 ^{+0.06} _{-0.06}	3.05E+37	6.77E+34
5494	58757.899205272	563.1 ^{+1.2} _{-1.2}	6.3 ^{+1.4} _{-1.4}	90 ⁺¹³ ₋₁₃	1059	4.53 ^{+0.80} _{-0.80}	28.72 ^{+1.10} _{-1.10}	3.07E+37	1.17E+36
5495	58757.899385701	563.6 ^{+1.0} _{-1.0}	3.3 ^{+0.8} _{-0.8}	116 ⁺²¹ ₋₂₁	1395	9.14 ^{+0.07} _{-0.07}	30.30 ^{+0.05} _{-0.05}	3.42E+37	5.86E+34
5496	58757.899433655	563.6 ^{+1.1} _{-1.1}	3.7 ^{+1.3} _{-1.3}	82 ⁺³ ₋₃	1375	6.83 ^{+0.05} _{-0.05}	25.12 ^{+0.07} _{-0.07}	2.84E+37	7.40E+34
5497	58757.899635521	563.0 ^{+1.2} _{-1.2}	4.4 ^{+1.9} _{-1.9}	68 ⁺¹⁴ ₋₁₄	1366	4.21 ^{+0.03} _{-0.03}	18.59 ^{+0.06} _{-0.06}	2.10E+37	6.74E+34
5498	58757.899659580	564.1 ^{+1.0} _{-1.0}	4.2 ^{+0.9} _{-0.9}	105 ⁺³⁷ ₋₃₇	1277	8.60 ^{+0.06} _{-0.06}	35.89 ^{+0.06} _{-0.06}	4.06E+37	6.49E+34
5499	58757.899750619	564.0 ^{+1.3} _{-1.3}	4.8 ^{+1.2} _{-1.2}	155 ⁺²⁰ ₋₂₀	1145	9.51 ^{+0.07} _{-0.07}	45.58 ^{+0.09} _{-0.09}	5.15E+37	9.78E+34
5500	58757.899902521	564.6 ^{+0.9} _{-0.9}	2.4 ^{+0.7} _{-0.7}	92 ⁺⁴⁹ ₋₄₉	1175	7.77 ^{+0.06} _{-0.06}	18.29 ^{+0.04} _{-0.04}	2.07E+37	4.28E+34
5501	58757.900413447	566.9 ^{+0.2} _{-0.2}	4.3 ^{+0.2} _{-0.2}	398 ⁺¹¹ ₋₁₁	1300	56.57 ^{+2.69} _{-2.69}	243.82 ^{+0.48} _{-0.48}	2.61E+38	5.18E+35
5502	58757.900413514	566.9 ^{+0.2} _{-0.2}	11.3 ^{+0.7} _{-0.7}	476 ⁺¹¹ ₋₁₁	1245	32.67 ^{+1.02} _{-1.02}	368.52 ^{+0.68} _{-0.68}	3.94E+38	7.32E+35
5503	58757.900957734	565.5 ^{+1.0} _{-1.0}	2.6 ^{+0.5} _{-0.5}	107 ⁺¹⁷ ₋₁₇	1355	10.40 ^{+0.08} _{-0.08}	27.32 ^{+0.04} _{-0.04}	3.09E+37	4.05E+34
5504	58757.901172231	564.8 ^{+0.8} _{-0.8}	3.8 ^{+0.7} _{-0.7}	168 ⁺²⁵ ₋₂₅	1225	10.51 ^{+0.08} _{-0.08}	39.57 ^{+0.06} _{-0.06}	4.47E+37	6.26E+34
5505	58757.901298061	564.3 ^{+0.8} _{-0.8}	1.8 ^{+0.6} _{-0.6}	38 ⁺²⁵ ₋₂₅	1354	5.59 ^{+0.04} _{-0.04}	10.03 ^{+0.02} _{-0.02}	1.13E+37	2.71E+34
5506	58757.901393723	562.6 ^{+1.4} _{-1.4}	3.3 ^{+1.1} _{-1.1}	128 ⁺²⁷ ₋₂₇	1197	6.42 ^{+0.05} _{-0.05}	21.11 ^{+0.05} _{-0.05}	2.38E+37	5.80E+34
5507	58757.901652712	564.8 ^{+0.1} _{-0.1}	2.8 ^{+0.1} _{-0.1}	419 ⁺²⁹ ₋₂₉	1245	26.29 ^{+1.09} _{-1.09}	72.56 ^{+0.14} _{-0.14}	7.77E+37	1.52E+35
5508	58757.902049410	565.2 ^{+0.9} _{-0.9}	3.7 ^{+0.3} _{-0.3}	160 ⁺¹⁸ ₋₁₈	1318	11.82 ^{+0.89} _{-0.89}	44.21 ^{+0.29} _{-0.29}	4.73E+37	3.14E+35
5509	58757.902250050	562.7 ^{+1.0} _{-1.0}	5.5 ^{+1.9} _{-1.9}	47 ⁺¹⁷ ₋₁₇	1423	4.61 ^{+0.03} _{-0.03}	25.33 ^{+0.06} _{-0.06}	2.86E+37	7.22E+34
5510	58757.902250398	563.5 ^{+1.3} _{-1.3}	3.1 ^{+1.0} _{-1.0}	86 ⁺²⁴ ₋₂₄	1270	5.79 ^{+0.04} _{-0.04}	18.02 ^{+0.04} _{-0.04}	2.04E+37	4.83E+34
5511	58757.902492238	563.5 ^{+1.3} _{-1.3}	5.0 ^{+1.5} _{-1.5}	50 ⁺¹⁹ ₋₁₉	1380	5.33 ^{+0.04} _{-0.04}	26.78 ^{+0.06} _{-0.06}	3.03E+37	6.58E+34
5512	58757.903205905	563.8 ^{+1.2} _{-1.2}	4.5 ^{+1.8} _{-1.8}	121 ⁺⁵ ₋₅	1252	4.87 ^{+0.04} _{-0.04}	22.00 ^{+0.07} _{-0.07}	2.49E+37	7.35E+34
5513	58757.903830157	563.1 ^{+1.4} _{-1.4}	1.8 ^{+0.9} _{-0.9}	53 ⁺²⁶ ₋₂₆	1118	4.14 ^{+0.03} _{-0.03}	7.36 ^{+0.03} _{-0.03}	8.32E+36	2.90E+34
5514	58757.904139223	563.1 ^{+0.3} _{-0.3}	2.3 ^{+0.2} _{-0.2}	192 ⁺²⁰ ₋₂₀	1340	16.11 ^{+1.06} _{-1.06}	37.54 ^{+0.19} _{-0.19}	4.02E+37	2.04E+35
5515	58757.905368671	562.7 ^{+1.3} _{-1.3}	3.9 ^{+0.9} _{-0.9}	159 ⁺²² ₋₂₂	1122	8.82 ^{+0.07} _{-0.07}	33.95 ^{+0.06} _{-0.06}	3.84E+37	6.46E+34
5516	58757.906217063	563.0 ^{+1.2} _{-1.2}	3.1 ^{+1.8} _{-1.8}	106 ⁺⁵ ₋₅	1393	4.22 ^{+0.03} _{-0.03}	12.87 ^{+0.06} _{-0.06}	1.45E+37	6.44E+34
5517	58757.906291253	564.3 ^{+0.5} _{-0.5}	2.7 ^{+0.4} _{-0.4}	146 ⁺¹² ₋₁₂	1413	10.68 ^{+0.08} _{-0.08}	28.78 ^{+0.03} _{-0.03}	3.25E+37	3.93E+34
5518	58757.906565684	564.9 ^{+1.1} _{-1.1}	2.9 ^{+0.7} _{-0.7}	101 ⁺³ ₋₃	1346	10.29 ^{+0.07} _{-0.07}	29.55 ^{+0.05} _{-0.05}	3.34E+37	5.91E+34
5519	58757.907029781	563.9 ^{+1.0} _{-1.0}	3.8 ^{+1.2} _{-1.2}	132 ⁺²⁰ ₋₂₀	1293	7.39 ^{+0.05} _{-0.05}	27.90 ^{+0.06} _{-0.06}	3.15E+37	7.24E+34
5520	58757.907292138	563.3 ^{+1.4} _{-1.4}	5.6 ^{+1.7} _{-1.7}	80 ⁺⁴⁶ ₋₄₆	1394	7.59 ^{+0.06} _{-0.06}	42.27 ^{+0.09} _{-0.09}	4.78E+37	1.03E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5521	58757.907292259	563.6 ^{+1.3} _{-1.3}	4.9 ^{+1.1} _{-1.1}	158 ⁺⁵⁶ ₋₅₆	1252	8.91 ^{+0.07} _{-0.07}	44.10 ^{+0.07} _{-0.07}	4.98E+37	7.76E+34
5522	58757.908185677	564.6 ^{+0.0} _{-0.0}	3.3 ^{+0.0} _{-0.0}	492 ⁺⁴ ₋₄	1254	109.86 ^{+0.98} _{-0.98}	362.54 ^{+0.03} _{-0.03}	3.88E+38	3.15E+34
5523	58757.908185747	564.6 ^{+0.0} _{-0.0}	2.8 ^{+0.4} _{-0.4}	495 ⁺⁶ ₋₆	1250	5.12 ^{+0.79} _{-0.79}	14.34 ^{+0.34} _{-0.34}	1.53E+37	3.64E+35
5524	58757.908220517	563.5 ^{+0.0} _{-0.0}	1.7 ^{+0.0} _{-0.0}	489 ⁺⁸ ₋₈	1255	234.27 ^{+1.45} _{-1.45}	393.57 ^{+0.01} _{-0.01}	4.21E+38	1.55E+34
5525	58757.908220570	563.5 ^{+0.0} _{-0.0}	1.4 ^{+0.2} _{-0.2}	493 ⁺⁵ ₋₅	1253	231.91 ^{+1.20} _{-1.20}	331.63 ^{+0.25} _{-0.25}	3.55E+38	2.70E+35
5526	58757.908226835	562.4 ^{+1.2} _{-1.2}	3.7 ^{+1.2} _{-1.2}	68 ⁺²⁵ ₋₂₅	1127	5.56 ^{+0.04} _{-0.04}	20.55 ^{+0.05} _{-0.05}	2.32E+37	5.71E+34
5527	58757.908586116	563.2 ^{+1.3} _{-1.3}	3.7 ^{+1.3} _{-1.3}	71 ⁺¹³ ₋₁₃	1355	5.04 ^{+0.04} _{-0.04}	18.85 ^{+0.05} _{-0.05}	2.13E+37	5.46E+34
5528	58757.908773964	564.5 ^{+0.7} _{-0.7}	3.9 ^{+0.4} _{-0.4}	126 ⁺³² ₋₃₂	1286	9.05 ^{+0.87} _{-0.87}	35.66 ^{+0.39} _{-0.39}	3.82E+37	4.19E+35
5529	58757.908830193	565.0 ^{+0.9} _{-0.9}	8.0 ^{+1.2} _{-1.2}	220 ⁺⁵⁷ ₋₅₇	1206	5.20 ^{+0.64} _{-0.64}	41.76 ^{+0.79} _{-0.79}	4.47E+37	8.50E+35
5530	58757.909257423	563.0 ^{+1.3} _{-1.3}	2.5 ^{+0.4} _{-0.4}	124 ⁺⁵ ₋₅	1107	12.66 ^{+0.09} _{-0.09}	32.18 ^{+0.04} _{-0.04}	3.64E+37	4.17E+34
5531	58757.909297615	563.8 ^{+1.2} _{-1.2}	4.2 ^{+1.3} _{-1.3}	60 ⁺¹⁴ ₋₁₄	1193	6.07 ^{+0.04} _{-0.04}	25.78 ^{+0.06} _{-0.06}	2.91E+37	6.70E+34
5532	58757.909417940	563.7 ^{+0.7} _{-0.7}	3.9 ^{+0.7} _{-0.7}	59 ⁺³⁸ ₋₃₈	1382	5.56 ^{+0.88} _{-0.88}	21.68 ^{+0.64} _{-0.64}	2.32E+37	6.88E+35
5533	58757.909419661	563.7 ^{+1.5} _{-1.5}	6.9 ^{+0.9} _{-0.9}	362 ⁺¹³ ₋₁₃	1224	6.12 ^{+0.66} _{-0.66}	42.11 ^{+0.60} _{-0.60}	4.51E+37	6.43E+35
5534	58757.909419957	563.7 ^{+0.8} _{-0.8}	4.0 ^{+1.2} _{-1.2}	136 ⁺²² ₋₂₂	1078	4.99 ^{+1.35} _{-1.35}	19.71 ^{+1.59} _{-1.59}	2.11E+37	1.71E+36
5535	58757.910253945	563.0 ^{+1.3} _{-1.3}	8.5 ^{+2.0} _{-2.0}	149 ⁺¹⁹ ₋₁₉	1278	7.01 ^{+0.05} _{-0.05}	59.59 ^{+0.10} _{-0.10}	6.73E+37	1.18E+35
5536	58757.910306199	562.6 ^{+1.2} _{-1.2}	3.8 ^{+1.0} _{-1.0}	72 ⁺²² ₋₂₂	1430	6.68 ^{+0.05} _{-0.05}	25.08 ^{+0.05} _{-0.05}	2.83E+37	5.78E+34
5537	58757.910359968	563.3 ^{+1.2} _{-1.2}	4.7 ^{+1.8} _{-1.8}	95 ⁺⁵⁹ ₋₅₉	1394	5.67 ^{+0.04} _{-0.04}	26.40 ^{+0.07} _{-0.07}	2.98E+37	8.45E+34
5538	58757.910383198	563.5 ^{+0.9} _{-0.9}	8.9 ^{+1.3} _{-1.3}	100 ⁺⁷⁴ ₋₇₄	1128	5.66 ^{+0.04} _{-0.04}	50.63 ^{+0.42} _{-0.42}	5.42E+37	4.49E+35
5539	58757.910383440	562.4 ^{+1.2} _{-1.2}	4.9 ^{+1.5} _{-1.5}	57 ⁺¹⁷ ₋₁₇	1143	6.10 ^{+0.04} _{-0.04}	29.85 ^{+0.07} _{-0.07}	3.37E+37	7.60E+34
5540	58757.910530027	564.3 ^{+1.1} _{-1.1}	6.8 ^{+0.8} _{-0.8}	126 ⁺¹⁷ ₋₁₇	1125	7.53 ^{+0.70} _{-0.70}	51.43 ^{+0.55} _{-0.55}	5.51E+37	5.84E+35
5541	58757.910534577	563.9 ^{+0.8} _{-0.8}	2.5 ^{+0.2} _{-0.2}	211 ⁺²⁹ ₋₂₉	1371	18.02 ^{+1.07} _{-1.07}	45.23 ^{+0.18} _{-0.18}	4.84E+37	1.95E+35
5542	58757.910534868	562.6 ^{+1.4} _{-1.4}	2.0 ^{+0.4} _{-0.4}	102 ⁺⁹² ₋₉₂	1379	7.78 ^{+1.23} _{-1.23}	15.48 ^{+0.46} _{-0.46}	1.66E+37	4.87E+35
5543	58757.910690933	563.2 ^{+1.1} _{-1.1}	4.6 ^{+1.4} _{-1.4}	46 ⁺²² ₋₂₂	1361	6.57 ^{+0.05} _{-0.05}	30.16 ^{+0.07} _{-0.07}	3.41E+37	7.37E+34
5544	58757.910691437	563.3 ^{+1.3} _{-1.3}	6.4 ^{+1.7} _{-1.7}	152 ⁺³⁵ ₋₃₅	1258	5.89 ^{+0.04} _{-0.04}	37.76 ^{+0.07} _{-0.07}	4.27E+37	8.13E+34
5545	58757.910749940	562.8 ^{+1.2} _{-1.2}	8.2 ^{+3.1} _{-3.1}	178 ⁺⁸ ₋₈	1219	4.47 ^{+0.03} _{-0.03}	36.49 ^{+0.10} _{-0.10}	4.12E+37	1.14E+35
5546	58757.911635141	563.0 ^{+1.2} _{-1.2}	2.1 ^{+0.8} _{-0.8}	98 ⁺⁴¹ ₋₄₁	1255	4.67 ^{+0.03} _{-0.03}	9.73 ^{+0.03} _{-0.03}	1.10E+37	3.14E+34
5547	58757.911663092	563.6 ^{+1.3} _{-1.3}	2.5 ^{+0.9} _{-0.9}	85 ⁺⁴³ ₋₄₃	1299	6.28 ^{+0.05} _{-0.05}	15.65 ^{+0.04} _{-0.04}	1.77E+37	4.65E+34
5548	58757.912375861	563.2 ^{+1.7} _{-1.7}	4.0 ^{+0.4} _{-0.4}	145 ⁺²¹ ₋₂₁	1392	10.63 ^{+0.93} _{-0.93}	42.31 ^{+0.39} _{-0.39}	4.53E+37	4.18E+35
5549	58757.912443505	565.3 ^{+0.8} _{-0.8}	4.1 ^{+0.6} _{-0.6}	122 ⁺³⁶ ₋₃₆	1316	12.36 ^{+0.09} _{-0.09}	50.13 ^{+0.06} _{-0.06}	5.66E+37	6.55E+34
5550	58757.912494948	563.1 ^{+1.2} _{-1.2}	2.9 ^{+1.6} _{-1.6}	200 ⁺⁷ ₋₇	1270	3.85 ^{+0.03} _{-0.03}	11.09 ^{+0.05} _{-0.05}	1.25E+37	5.11E+34
5551	58757.912567303	563.9 ^{+1.2} _{-1.2}	5.5 ^{+0.5} _{-0.5}	215 ⁺³² ₋₃₂	1254	11.12 ^{+0.77} _{-0.77}	61.38 ^{+0.35} _{-0.35}	6.57E+37	3.79E+35
5552	58757.912567361	563.9 ^{+1.2} _{-1.2}	4.3 ^{+0.6} _{-0.6}	221 ⁺²¹ ₋₂₁	1245	4.30 ^{+0.90} _{-0.90}	18.62 ^{+0.53} _{-0.53}	1.99E+37	5.68E+35
5553	58757.912716874	563.0 ^{+1.3} _{-1.3}	5.5 ^{+2.3} _{-2.3}	67 ⁺³ ₋₃	1073	5.05 ^{+0.04} _{-0.04}	27.84 ^{+0.08} _{-0.08}	3.15E+37	9.60E+34
5554	58757.912796021	563.2 ^{+1.3} _{-1.3}	5.2 ^{+1.3} _{-1.3}	324 ⁺⁸⁸ ₋₈₈	1230	7.59 ^{+0.06} _{-0.06}	39.72 ^{+0.07} _{-0.07}	4.49E+37	8.07E+34
5555	58757.912926845	564.2 ^{+1.2} _{-1.2}	1.7 ^{+0.5} _{-0.5}	161 ⁺⁷ ₋₇	1275	6.62 ^{+0.05} _{-0.05}	11.20 ^{+0.02} _{-0.02}	1.27E+37	2.76E+34
5556	58757.913373680	564.0 ^{+0.7} _{-0.7}	2.7 ^{+0.7} _{-0.7}	150 ⁺⁴ ₋₄	1300	8.00 ^{+0.06} _{-0.06}	21.82 ^{+0.04} _{-0.04}	2.47E+37	4.45E+34
5557	58757.913725833	565.1 ^{+0.6} _{-0.6}	4.0 ^{+0.4} _{-0.4}	119 ⁺²² ₋₂₂	1161	9.24 ^{+0.82} _{-0.82}	36.78 ^{+0.34} _{-0.34}	3.94E+37	3.69E+35
5558	58757.914774597	563.8 ^{+1.3} _{-1.3}	5.5 ^{+0.6} _{-0.6}	139 ⁺²⁹ ₋₂₉	1248	8.07 ^{+0.73} _{-0.73}	44.14 ^{+0.44} _{-0.44}	4.73E+37	4.69E+35
5559	58757.915080233	563.5 ^{+1.1} _{-1.1}	2.4 ^{+0.4} _{-0.4}	87 ⁺²¹ ₋₂₁	1136	7.56 ^{+0.06} _{-0.06}	18.25 ^{+0.03} _{-0.03}	2.06E+37	2.88E+34
5560	58757.916444211	563.6 ^{+1.6} _{-1.6}	4.3 ^{+0.7} _{-0.7}	51 ⁺¹⁹ ₋₁₉	1417	5.93 ^{+0.78} _{-0.78}	25.74 ^{+0.54} _{-0.54}	2.76E+37	5.76E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5561	58757.916948740	562.7 ^{+1.3} _{-1.3}	19.8 ^{+4.0} _{-4.0}	137 ⁺³⁶ ₋₃₆	1315	4.88 ^{+0.74} _{-0.74}	96.38 ^{+2.95} _{-2.95}	1.03E+38	3.15E+36
5562	58757.917021259	564.5 ^{+0.9} _{-0.9}	6.0 ^{+0.6} _{-0.6}	121 ⁺¹⁹ ₋₁₉	1401	7.34 ^{+0.61} _{-0.61}	43.67 ^{+0.37} _{-0.37}	4.68E+37	3.92E+35
5563	58757.917574090	564.9 ^{+0.2} _{-0.2}	4.1 ^{+0.1} _{-0.1}	441 ⁺¹⁹ ₋₁₉	1257	33.47 ^{+0.90} _{-0.90}	138.23 ^{+0.12} _{-0.12}	1.48E+38	1.25E+35
5564	58757.917574141	564.9 ^{+0.2} _{-0.2}	3.2 ^{+0.2} _{-0.2}	468 ⁺⁸ ₋₈	1247	31.89 ^{+0.78} _{-0.78}	102.05 ^{+0.12} _{-0.12}	1.09E+38	1.25E+35
5565	58757.918027632	565.0 ^{+0.1} _{-0.1}	3.1 ^{+0.2} _{-0.2}	254 ⁺¹⁰ ₋₁₀	1371	23.01 ^{+1.00} _{-1.00}	71.56 ^{+0.17} _{-0.17}	7.66E+37	1.82E+35
5566	58757.918027701	564.9 ^{+0.2} _{-0.2}	4.7 ^{+0.3} _{-0.3}	277 ⁺²⁰ ₋₂₀	1361	40.62 ^{+0.31} _{-0.31}	190.61 ^{+0.08} _{-0.08}	2.15E+38	8.68E+34
5567	58757.918503045	565.5 ^{+0.7} _{-0.7}	3.7 ^{+1.0} _{-1.0}	21 ⁺⁴ ₋₄	1356	7.16 ^{+0.05} _{-0.05}	26.41 ^{+0.05} _{-0.05}	2.98E+37	6.02E+34
5568	58757.918503139	565.5 ^{+0.6} _{-0.6}	2.9 ^{+0.9} _{-0.9}	72 ⁺¹⁰ ₋₁₀	1440	7.63 ^{+0.06} _{-0.06}	22.06 ^{+0.05} _{-0.05}	2.49E+37	5.92E+34
5569	58757.918522776	565.3 ^{+0.8} _{-0.8}	5.8 ^{+0.7} _{-0.7}	167 ⁺⁸ ₋₈	1336	7.71 ^{+0.77} _{-0.77}	44.72 ^{+0.54} _{-0.54}	4.79E+37	5.77E+35
5570	58757.918578158	562.6 ^{+1.2} _{-1.2}	2.4 ^{+0.8} _{-0.8}	84 ⁺¹¹ ₋₁₁	1159	6.94 ^{+0.05} _{-0.05}	16.39 ^{+0.04} _{-0.04}	1.85E+37	4.60E+34
5571	58757.918659789	563.0 ^{+1.3} _{-1.3}	3.5 ^{+0.8} _{-0.8}	111 ⁺⁵ ₋₅	1388	6.23 ^{+0.05} _{-0.05}	21.98 ^{+0.04} _{-0.04}	2.48E+37	4.35E+34
5572	58757.919120761	563.0 ^{+1.3} _{-1.3}	3.9 ^{+1.0} _{-1.0}	50 ⁺⁴ ₋₄	1335	6.64 ^{+0.05} _{-0.05}	25.78 ^{+0.05} _{-0.05}	2.91E+37	5.96E+34
5573	58757.919311633	562.6 ^{+1.3} _{-1.3}	5.4 ^{+2.5} _{-2.5}	95 ⁺⁹⁶ ₋₉₆	1102	4.84 ^{+0.04} _{-0.04}	26.35 ^{+0.09} _{-0.09}	2.98E+37	1.05E+35
5574	58757.920598312	564.5 ^{+0.9} _{-0.9}	3.6 ^{+0.6} _{-0.6}	119 ⁺¹⁸ ₋₁₈	1417	8.35 ^{+0.06} _{-0.06}	30.31 ^{+0.04} _{-0.04}	3.42E+37	4.01E+34
5575	58757.920599203	562.3 ^{+1.1} _{-1.1}	4.2 ^{+0.6} _{-0.6}	54 ⁺²⁴ ₋₂₄	1077	7.87 ^{+0.06} _{-0.06}	33.37 ^{+0.04} _{-0.04}	3.77E+37	4.18E+34
5576	58757.921929815	563.8 ^{+0.6} _{-0.6}	6.0 ^{+0.3} _{-0.3}	425 ⁺¹⁸ ₋₁₈	1250	19.60 ^{+0.72} _{-0.72}	117.40 ^{+0.19} _{-0.19}	1.26E+38	2.08E+35
5577	58757.921929864	563.8 ^{+0.6} _{-0.6}	2.1 ^{+0.4} _{-0.4}	374 ⁺¹⁷ ₋₁₇	1225	18.83 ^{+0.89} _{-0.89}	39.92 ^{+0.40} _{-0.40}	4.27E+37	4.29E+35
5578	58757.922263451	563.9 ^{+1.1} _{-1.1}	5.6 ^{+0.4} _{-0.4}	150 ⁺¹⁹ ₋₁₉	1387	9.09 ^{+9.09} _{-9.09}	50.45 ^{+4.09} _{-4.09}	5.40E+37	4.38E+36
5579	58757.922263463	563.9 ^{+1.1} _{-1.1}	5.0 ^{+0.3} _{-0.3}	179 ⁺²⁴ ₋₂₄	1383	9.35 ^{+3.40} _{-3.40}	46.56 ^{+1.09} _{-1.09}	4.98E+37	1.16E+36
5580	58757.922359402	562.9 ^{+1.2} _{-1.2}	6.6 ^{+2.3} _{-2.3}	106 ⁺¹⁸ ₋₁₈	1183	6.33 ^{+0.05} _{-0.05}	41.85 ^{+0.11} _{-0.11}	4.73E+37	1.28E+35
5581	58757.922509846	561.7 ^{+0.6} _{-0.6}	19.5 ^{+5.9} _{-5.9}	165 ⁺¹⁵¹ ₋₁₅₁	1312	5.12 ^{+0.04} _{-0.04}	99.92 ^{+0.24} _{-0.24}	1.13E+38	2.69E+35
5582	58757.922833913	563.1 ^{+1.3} _{-1.3}	2.7 ^{+0.7} _{-0.7}	109 ⁺¹³ ₋₁₃	1110	8.46 ^{+0.07} _{-0.07}	23.01 ^{+0.05} _{-0.05}	2.60E+37	5.48E+34
5583	58757.923169893	562.6 ^{+0.9} _{-0.9}	4.8 ^{+0.4} _{-0.4}	127 ⁺²⁵ ₋₂₅	1379	10.78 ^{+0.73} _{-0.73}	51.31 ^{+0.28} _{-0.28}	5.49E+37	3.05E+35
5584	58757.923170767	563.2 ^{+1.2} _{-1.2}	5.4 ^{+2.3} _{-2.3}	82 ⁺¹⁰ ₋₁₀	1134	5.26 ^{+0.04} _{-0.04}	28.50 ^{+0.10} _{-0.10}	3.22E+37	1.07E+35
5585	58757.923171663	564.8 ^{+0.9} _{-0.9}	3.2 ^{+0.3} _{-0.3}	150 ⁺⁷⁴ ₋₇₄	1343	13.26 ^{+0.91} _{-0.91}	42.30 ^{+0.24} _{-0.24}	4.53E+37	2.53E+35
5586	58757.923243970	562.7 ^{+1.4} _{-1.4}	9.2 ^{+0.8} _{-0.8}	176 ⁺²⁵ ₋₂₅	1398	7.72 ^{+0.54} _{-0.54}	71.02 ^{+0.44} _{-0.44}	7.60E+37	4.74E+35
5587	58757.923675733	563.8 ^{+0.1} _{-0.1}	4.5 ^{+0.3} _{-0.3}	405 ⁺³⁴ ₋₃₄	1255	18.30 ^{+0.88} _{-0.88}	81.98 ^{+0.23} _{-0.23}	8.78E+37	2.45E+35
5588	58757.923675872	563.8 ^{+0.1} _{-0.1}	3.5 ^{+0.1} _{-0.1}	407 ⁺⁴ ₋₄	1206	70.89 ^{+0.98} _{-0.98}	250.24 ^{+0.06} _{-0.06}	2.68E+38	6.29E+34
5589	58757.923676194	561.2 ^{+0.0} _{-0.0}	2.6 ^{+0.2} _{-0.2}	191 ⁺¹⁸ ₋₁₈	1302	16.57 ^{+0.13} _{-0.13}	43.82 ^{+0.03} _{-0.03}	4.95E+37	3.47E+34
5590	58757.923946620	563.7 ^{+1.0} _{-1.0}	2.8 ^{+0.3} _{-0.3}	181 ⁺³² ₋₃₂	1375	13.90 ^{+0.11} _{-0.11}	39.34 ^{+0.04} _{-0.04}	4.45E+37	4.10E+34
5591	58757.923999651	562.9 ^{+0.4} _{-0.4}	4.0 ^{+0.2} _{-0.2}	265 ⁺⁷ ₋₇	1362	23.34 ^{+0.85} _{-0.85}	93.59 ^{+0.14} _{-0.14}	1.00E+38	1.55E+35
5592	58757.923999683	562.9 ^{+0.4} _{-0.4}	2.6 ^{+0.2} _{-0.2}	296 ⁺²⁸ ₋₂₈	1327	7.34 ^{+0.84} _{-0.84}	19.01 ^{+0.18} _{-0.18}	2.04E+37	1.89E+35
5593	58757.924469360	564.2 ^{+1.2} _{-1.2}	3.7 ^{+1.1} _{-1.1}	45 ⁺⁷ ₋₇	1051	5.43 ^{+0.04} _{-0.04}	20.30 ^{+0.05} _{-0.05}	2.29E+37	5.11E+34
5594	58757.926025671	562.6 ^{+1.3} _{-1.3}	3.6 ^{+1.3} _{-1.3}	52 ⁺³² ₋₃₂	1320	5.50 ^{+0.04} _{-0.04}	20.01 ^{+0.06} _{-0.06}	2.26E+37	6.45E+34
5595	58757.926135001	562.4 ^{+1.3} _{-1.3}	4.7 ^{+1.5} _{-1.5}	160 ⁺⁵⁹ ₋₅₉	1390	6.76 ^{+0.05} _{-0.05}	32.06 ^{+0.08} _{-0.08}	3.62E+37	9.01E+34
5596	58757.926226879	563.2 ^{+1.4} _{-1.4}	5.3 ^{+1.1} _{-1.1}	121 ⁺⁵ ₋₅	1126	9.39 ^{+0.07} _{-0.07}	49.35 ^{+0.09} _{-0.09}	5.58E+37	9.70E+34
5597	58757.926301368	564.9 ^{+0.4} _{-0.4}	2.9 ^{+0.4} _{-0.4}	78 ⁺⁴⁴ ₋₄₄	1141	11.76 ^{+0.09} _{-0.09}	34.19 ^{+0.04} _{-0.04}	3.86E+37	4.65E+34
5598	58757.926399155	564.6 ^{+1.0} _{-1.0}	2.0 ^{+0.4} _{-0.4}	106 ⁺⁴⁶ ₋₄₆	1264	10.08 ^{+0.08} _{-0.08}	20.56 ^{+0.03} _{-0.03}	2.32E+37	3.79E+34
5599	58757.926509006	563.4 ^{+1.2} _{-1.2}	3.8 ^{+0.4} _{-0.4}	204 ⁺¹⁹ ₋₁₉	1305	11.16 ^{+0.94} _{-0.94}	41.96 ^{+0.36} _{-0.36}	4.49E+37	3.82E+35
5600	58757.926509692	563.2 ^{+1.0} _{-1.0}	13.0 ^{+2.0} _{-2.0}	117 ⁺⁴⁷ ₋₄₇	1355	5.39 ^{+0.58} _{-0.58}	69.96 ^{+1.13} _{-1.13}	7.49E+37	1.21E+36

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5601	58757.926865677	563.6 ^{+1.3} _{-1.3}	15.5 ^{+2.8} _{-2.8}	69 ⁺⁴⁵ ₋₄₅	1317	4.92 ^{+0.60} _{-0.60}	76.06 ^{+1.65} _{-1.65}	8.14E+37	1.77E+36
5602	58757.926866877	563.7 ^{+0.5} _{-0.5}	2.7 ^{+0.8} _{-0.8}	86 ⁺¹³ ₋₁₃	1163	5.86 ^{+0.05} _{-0.05}	16.04 ^{+0.04} _{-0.04}	1.81E+37	4.32E+34
5603	58757.927051382	563.0 ^{+0.0} _{-0.0}	3.0 ^{+0.0} _{-0.0}	497 ⁺² ₋₂	1251	397.12 ^{+2.40} _{-2.40}	1211.22 ^{+0.05} _{-0.05}	1.30E+39	5.14E+34
5604	58757.927173425	563.3 ^{+1.2} _{-1.2}	4.7 ^{+0.8} _{-0.8}	169 ⁺⁵ ₋₅	1338	5.52 ^{+0.81} _{-0.81}	25.83 ^{+0.67} _{-0.67}	2.77E+37	7.20E+35
5605	58757.928008094	564.0 ^{+1.3} _{-1.3}	5.9 ^{+2.0} _{-2.0}	178 ⁺³⁷ ₋₃₇	1323	6.96 ^{+0.06} _{-0.06}	40.90 ^{+0.11} _{-0.11}	4.62E+37	1.29E+35
5606	58757.928220919	564.6 ^{+0.6} _{-0.6}	3.9 ^{+0.2} _{-0.2}	191 ⁺⁴⁷ ₋₄₇	1326	15.77 ^{+0.84} _{-0.84}	61.03 ^{+0.21} _{-0.21}	6.53E+37	2.25E+35
5607	58757.928220947	564.6 ^{+0.6} _{-0.6}	3.4 ^{+0.4} _{-0.4}	182 ⁺⁴⁵ ₋₄₅	1313	15.45 ^{+0.75} _{-0.75}	53.30 ^{+0.34} _{-0.34}	5.71E+37	3.61E+35
5608	58757.928454101	564.2 ^{+1.1} _{-1.1}	5.8 ^{+1.1} _{-1.1}	81 ⁺⁵⁹ ₋₅₉	1211	9.17 ^{+0.07} _{-0.07}	52.91 ^{+0.08} _{-0.08}	5.98E+37	9.52E+34
5609	58757.928856410	562.9 ^{+1.3} _{-1.3}	2.4 ^{+0.4} _{-0.4}	139 ⁺³ ₋₃	1174	6.47 ^{+0.99} _{-0.99}	15.33 ^{+0.42} _{-0.42}	1.64E+37	4.45E+35
5610	58757.930301130	562.6 ^{+1.1} _{-1.1}	5.3 ^{+0.6} _{-0.6}	126 ⁺²⁹ ₋₂₉	1305	6.93 ^{+0.66} _{-0.66}	36.66 ^{+0.40} _{-0.40}	3.92E+37	4.31E+35
5611	58757.931102926	563.2 ^{+1.3} _{-1.3}	5.4 ^{+2.0} _{-2.0}	73 ⁺²⁷ ₋₂₇	1338	7.26 ^{+0.06} _{-0.06}	39.19 ^{+0.12} _{-0.12}	4.43E+37	1.33E+35
5612	58757.931684539	565.5 ^{+0.8} _{-0.8}	2.9 ^{+0.1} _{-0.1}	235 ⁺⁷ ₋₇	1366	22.52 ^{+0.79} _{-0.79}	65.53 ^{+0.09} _{-0.09}	7.02E+37	1.01E+35
5613	58757.931881506	562.8 ^{+1.2} _{-1.2}	7.9 ^{+1.1} _{-1.1}	51 ⁺⁹ ₋₉	1074	4.80 ^{+0.04} _{-0.04}	38.06 ^{+0.36} _{-0.36}	4.07E+37	3.88E+35
5614	58757.931955177	564.6 ^{+0.8} _{-0.8}	4.3 ^{+0.7} _{-0.7}	223 ⁺²⁰ ₋₂₀	1162	7.38 ^{+1.40} _{-1.40}	31.51 ^{+0.98} _{-0.98}	3.37E+37	1.05E+36
5615	58757.931955244	564.6 ^{+0.8} _{-0.8}	7.6 ^{+0.8} _{-0.8}	267 ⁺¹⁰ ₋₁₀	1171	12.70 ^{+0.54} _{-0.54}	96.65 ^{+0.43} _{-0.43}	1.03E+38	4.57E+35
5616	58757.932748429	564.4 ^{+1.0} _{-1.0}	2.8 ^{+0.6} _{-0.6}	65 ⁺³ ₋₃	1363	8.33 ^{+0.07} _{-0.07}	23.71 ^{+0.04} _{-0.04}	2.68E+37	4.85E+34
5617	58757.934028080	561.0 ^{+0.5} _{-0.5}	5.9 ^{+1.2} _{-1.2}	464 ⁺⁷ ₋₇	1245	8.20 ^{+0.73} _{-0.73}	48.05 ^{+0.85} _{-0.85}	5.14E+37	9.14E+35
5618	58757.934028131	561.0 ^{+0.5} _{-0.5}	2.6 ^{+0.4} _{-0.4}	182 ⁺⁸⁸ ₋₈₈	1291	13.43 ^{+1.83} _{-1.83}	35.19 ^{+0.71} _{-0.71}	3.77E+37	7.64E+35
5619	58757.934028191	561.0 ^{+0.5} _{-0.5}	5.7 ^{+0.9} _{-0.9}	153 ⁺¹⁰⁹ ₋₁₀₉	1151	7.32 ^{+0.74} _{-0.74}	41.58 ^{+0.70} _{-0.70}	4.45E+37	7.45E+35
5620	58757.934220756	563.2 ^{+1.4} _{-1.4}	6.0 ^{+1.8} _{-1.8}	64 ⁺⁴⁹ ₋₄₉	1440	5.70 ^{+0.05} _{-0.05}	34.40 ^{+0.09} _{-0.09}	3.89E+37	9.80E+34
5621	58758.938740424	563.0 ^{+1.3} _{-1.3}	8.7 ^{+2.2} _{-2.2}	108 ⁺⁴⁷ ₋₄₇	1261	5.79 ^{+0.05} _{-0.05}	50.52 ^{+0.11} _{-0.11}	5.71E+37	1.29E+35
5622	58758.939020258	563.0 ^{+1.1} _{-1.1}	2.9 ^{+0.6} _{-0.6}	57 ⁺³ ₋₃	1343	6.21 ^{+0.06} _{-0.06}	17.74 ^{+0.04} _{-0.04}	2.00E+37	4.03E+34
5623	58758.939405324	565.0 ^{+0.8} _{-0.8}	4.6 ^{+0.4} _{-0.4}	187 ⁺¹⁵ ₋₁₅	1210	11.65 ^{+0.81} _{-0.81}	53.01 ^{+0.31} _{-0.31}	5.67E+37	3.29E+35
5624	58758.939947693	563.8 ^{+1.3} _{-1.3}	3.6 ^{+1.2} _{-1.2}	62 ⁺³⁷ ₋₃₇	1295	6.58 ^{+0.06} _{-0.06}	23.94 ^{+0.07} _{-0.07}	2.71E+37	7.91E+34
5625	58758.940073428	564.6 ^{+0.9} _{-0.9}	5.0 ^{+1.8} _{-1.8}	93 ⁺⁴⁰ ₋₄₀	1185	4.95 ^{+0.04} _{-0.04}	24.79 ^{+0.08} _{-0.08}	2.80E+37	9.16E+34
5626	58758.940073539	564.9 ^{+1.1} _{-1.1}	3.6 ^{+0.4} _{-0.4}	184 ⁺³³ ₋₃₃	1319	10.97 ^{+0.95} _{-0.95}	39.82 ^{+0.35} _{-0.35}	4.26E+37	3.76E+35
5627	58758.940445766	563.3 ^{+1.0} _{-1.0}	3.9 ^{+0.9} _{-0.9}	99 ⁺⁹ ₋₉	1066	9.03 ^{+0.08} _{-0.08}	35.38 ^{+0.07} _{-0.07}	4.00E+37	8.29E+34
5628	58758.940724353	563.0 ^{+1.0} _{-1.0}	3.6 ^{+1.2} _{-1.2}	119 ⁺¹³ ₋₁₃	1324	5.51 ^{+0.05} _{-0.05}	19.78 ^{+0.06} _{-0.06}	2.23E+37	7.12E+34
5629	58758.940848041	563.0 ^{+1.3} _{-1.3}	3.0 ^{+0.7} _{-0.7}	122 ⁺⁴ ₋₄	1377	4.95 ^{+0.05} _{-0.05}	15.03 ^{+0.03} _{-0.03}	1.70E+37	3.82E+34
5630	58758.940983228	562.8 ^{+1.1} _{-1.1}	6.0 ^{+2.1} _{-2.1}	52 ⁺⁴ ₋₄	1412	4.68 ^{+0.04} _{-0.04}	27.95 ^{+0.09} _{-0.09}	3.16E+37	9.99E+34
5631	58758.941249818	563.6 ^{+1.1} _{-1.1}	3.6 ^{+0.8} _{-0.8}	69 ⁺¹⁷ ₋₁₇	1114	6.19 ^{+0.06} _{-0.06}	22.06 ^{+0.05} _{-0.05}	2.49E+37	5.48E+34
5632	58758.941638137	562.7 ^{+1.1} _{-1.1}	7.9 ^{+2.3} _{-2.3}	118 ⁺⁵ ₋₅	1377	4.50 ^{+0.04} _{-0.04}	35.50 ^{+0.10} _{-0.10}	4.01E+37	1.09E+35
5633	58758.941644782	564.0 ^{+1.2} _{-1.2}	4.9 ^{+1.4} _{-1.4}	120 ⁺³² ₋₃₂	1395	6.46 ^{+0.06} _{-0.06}	31.97 ^{+0.09} _{-0.09}	3.61E+37	9.65E+34
5634	58758.941778168	563.2 ^{+1.2} _{-1.2}	3.0 ^{+0.6} _{-0.6}	63 ⁺³⁷ ₋₃₇	1307	6.56 ^{+0.06} _{-0.06}	19.80 ^{+0.04} _{-0.04}	2.24E+37	4.18E+34
5635	58758.941995446	562.6 ^{+0.3} _{-0.3}	3.7 ^{+0.6} _{-0.6}	142 ⁺¹³¹ ₋₁₃₁	1372	6.94 ^{+0.92} _{-0.92}	25.47 ^{+0.53} _{-0.53}	2.73E+37	5.71E+35
5636	58758.941996145	563.4 ^{+1.0} _{-1.0}	2.2 ^{+1.1} _{-1.1}	151 ⁺⁵ ₋₅	1326	4.40 ^{+0.04} _{-0.04}	9.69 ^{+0.04} _{-0.04}	1.09E+37	5.00E+34
5637	58758.942096411	563.3 ^{+1.2} _{-1.2}	6.1 ^{+1.1} _{-1.1}	182 ⁺³¹ ₋₃₁	1143	10.43 ^{+0.10} _{-0.10}	63.20 ^{+0.11} _{-0.11}	7.14E+37	1.26E+35
5638	58758.942190084	562.7 ^{+1.1} _{-1.1}	2.3 ^{+0.9} _{-0.9}	91 ⁺³⁸ ₋₃₈	1378	4.80 ^{+0.04} _{-0.04}	11.09 ^{+0.04} _{-0.04}	1.25E+37	4.44E+34
5639	58758.942196472	564.9 ^{+0.9} _{-0.9}	2.7 ^{+0.5} _{-0.5}	104 ⁺⁴ ₋₄	1137	10.63 ^{+0.10} _{-0.10}	29.18 ^{+0.05} _{-0.05}	3.30E+37	5.48E+34
5640	58758.942595958	563.3 ^{+1.2} _{-1.2}	4.4 ^{+0.7} _{-0.7}	151 ⁺⁶³ ₋₆₃	1292	7.70 ^{+0.07} _{-0.07}	33.77 ^{+0.05} _{-0.05}	3.82E+37	5.55E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5641	58758.942828064	562.0 ^{+0.7} _{-0.7}	2.8 ^{+0.4} _{-0.4}	62 ⁺³⁰ ₋₃₀	1385	9.67 ^{+0.09} _{-0.09}	26.70 ^{+0.04} _{-0.04}	3.02E+37	3.98E+34
5642	58758.944093695	561.8 ^{+1.0} _{-1.0}	6.2 ^{+1.6} _{-1.6}	60 ⁺³⁹ ₋₃₉	1383	4.85 ^{+0.05} _{-0.05}	30.00 ^{+0.07} _{-0.07}	3.39E+37	8.34E+34
5643	58758.944124447	563.0 ^{+1.3} _{-1.3}	6.5 ^{+1.8} _{-1.8}	127 ⁺²⁶ ₋₂₆	1254	5.66 ^{+0.05} _{-0.05}	36.80 ^{+0.10} _{-0.10}	4.16E+37	1.09E+35
5644	58758.944451745	563.8 ^{+0.0} _{-0.0}	3.1 ^{+0.0} _{-0.0}	494 ⁺⁸ ₋₈	1250	377.02 ^{+1.40} _{-1.40}	1164.99 ^{+0.01} _{-0.01}	1.25E+39	1.50E+34
5645	58758.944600547	563.6 ^{+0.8} _{-0.8}	2.4 ^{+0.4} _{-0.4}	51 ⁺²⁴ ₋₂₄	1392	8.80 ^{+0.08} _{-0.08}	21.31 ^{+0.03} _{-0.03}	2.41E+37	3.68E+34
5646	58758.945111444	563.3 ^{+1.3} _{-1.3}	4.0 ^{+0.6} _{-0.6}	97 ⁺³³ ₋₃₃	1328	10.71 ^{+0.10} _{-0.10}	42.80 ^{+0.06} _{-0.06}	4.84E+37	7.24E+34
5647	58758.945924588	563.3 ^{+1.3} _{-1.3}	6.7 ^{+2.8} _{-2.8}	81 ⁺⁷ ₋₇	1122	4.25 ^{+0.04} _{-0.04}	28.36 ^{+0.12} _{-0.12}	3.20E+37	1.31E+35
5648	58758.946015477	563.2 ^{+1.3} _{-1.3}	2.6 ^{+0.6} _{-0.6}	47 ⁺²¹ ₋₂₁	1394	6.82 ^{+0.07} _{-0.07}	17.63 ^{+0.04} _{-0.04}	1.99E+37	4.22E+34
5649	58758.946181027	565.6 ^{+0.7} _{-0.7}	4.1 ^{+0.3} _{-0.3}	136 ⁺²⁶ ₋₂₆	1297	14.89 ^{+0.93} _{-0.93}	61.05 ^{+0.29} _{-0.29}	6.54E+37	3.09E+35
5650	58758.946181037	565.6 ^{+0.7} _{-0.7}	4.6 ^{+0.4} _{-0.4}	297 ⁺²⁹ ₋₂₉	1159	15.02 ^{+0.99} _{-0.99}	69.09 ^{+0.45} _{-0.45}	7.40E+37	4.77E+35
5651	58758.947906815	563.6 ^{+1.2} _{-1.2}	3.4 ^{+1.3} _{-1.3}	63 ⁺¹¹ ₋₁₁	1402	7.49 ^{+0.07} _{-0.07}	25.47 ^{+0.09} _{-0.09}	2.88E+37	1.05E+35
5652	58758.948002792	562.1 ^{+0.9} _{-0.9}	3.9 ^{+0.4} _{-0.4}	106 ⁺²³ ₋₂₃	1392	8.47 ^{+0.82} _{-0.82}	33.12 ^{+0.37} _{-0.37}	3.55E+37	3.95E+35
5653	58758.948003579	561.6 ^{+0.8} _{-0.8}	9.8 ^{+2.0} _{-2.0}	130 ⁺²⁹ ₋₂₉	1082	3.49 ^{+0.54} _{-0.54}	34.24 ^{+1.06} _{-1.06}	3.67E+37	1.14E+36
5654	58758.948397107	563.3 ^{+1.3} _{-1.3}	3.0 ^{+1.5} _{-1.5}	60 ⁺⁹ ₋₉	1129	4.72 ^{+0.05} _{-0.05}	14.38 ^{+0.07} _{-0.07}	1.62E+37	8.15E+34
5655	58758.949016535	563.6 ^{+1.2} _{-1.2}	9.5 ^{+3.8} _{-3.8}	52 ⁺⁴ ₋₄	1429	5.44 ^{+0.05} _{-0.05}	51.48 ^{+0.21} _{-0.21}	5.82E+37	2.34E+35
5656	58758.949370643	563.4 ^{+1.2} _{-1.2}	1.7 ^{+0.6} _{-0.6}	215 ⁺⁴ ₋₄	1209	4.89 ^{+0.05} _{-0.05}	8.48 ^{+0.03} _{-0.03}	9.58E+36	3.24E+34
5657	58758.949639021	563.8 ^{+1.2} _{-1.2}	3.5 ^{+0.4} _{-0.4}	102 ⁺³⁸ ₋₃₈	1390	8.68 ^{+0.79} _{-0.79}	30.03 ^{+0.29} _{-0.29}	3.21E+37	3.13E+35
5658	58758.950416271	563.8 ^{+1.1} _{-1.1}	4.4 ^{+0.6} _{-0.6}	204 ⁺¹⁶ ₋₁₆	1390	14.54 ^{+0.95} _{-0.95}	63.98 ^{+0.59} _{-0.59}	6.85E+37	6.31E+35
5659	58758.950542637	563.5 ^{+1.3} _{-1.3}	3.3 ^{+1.0} _{-1.0}	78 ⁺²⁴ ₋₂₄	1432	6.39 ^{+0.06} _{-0.06}	21.25 ^{+0.07} _{-0.07}	2.40E+37	7.47E+34
5660	58758.951447730	564.1 ^{+1.1} _{-1.1}	4.1 ^{+0.5} _{-0.5}	110 ⁺²⁴ ₋₂₄	1149	10.69 ^{+0.11} _{-0.11}	44.17 ^{+0.06} _{-0.06}	4.99E+37	6.43E+34
5661	58758.951600643	562.9 ^{+1.3} _{-1.3}	2.9 ^{+0.9} _{-0.9}	87 ⁺⁴ ₋₄	1115	7.69 ^{+0.08} _{-0.08}	22.15 ^{+0.07} _{-0.07}	2.50E+37	7.56E+34
5662	58758.951679641	563.1 ^{+1.2} _{-1.2}	7.0 ^{+1.1} _{-1.1}	100 ⁺³⁵ ₋₃₅	1279	5.63 ^{+0.70} _{-0.70}	39.30 ^{+0.75} _{-0.75}	4.21E+37	8.02E+35
5663	58758.952078894	563.7 ^{+1.0} _{-1.0}	10.5 ^{+1.3} _{-1.3}	214 ⁺⁴⁷ ₋₄₇	1275	6.11 ^{+0.57} _{-0.57}	64.16 ^{+0.72} _{-0.72}	6.87E+37	7.75E+35
5664	58758.952079182	564.1 ^{+1.1} _{-1.1}	3.6 ^{+2.0} _{-2.0}	200 ⁺⁸⁵ ₋₈₅	1203	3.93 ^{+0.04} _{-0.04}	14.06 ^{+0.08} _{-0.08}	1.59E+37	9.09E+34
5665	58758.952319027	563.4 ^{+1.1} _{-1.1}	3.5 ^{+0.6} _{-0.6}	60 ⁺⁸ ₋₈	1325	6.66 ^{+0.98} _{-0.98}	23.58 ^{+0.61} _{-0.61}	2.52E+37	6.50E+35
5666	58758.952326887	563.3 ^{+0.0} _{-0.0}	3.9 ^{+0.3} _{-0.3}	497 ⁺¹ ₋₁	1251	39.36 ^{+2.34} _{-2.34}	152.72 ^{+0.66} _{-0.66}	1.63E+38	7.01E+35
5667	58758.952582195	563.5 ^{+1.0} _{-1.0}	3.9 ^{+1.2} _{-1.2}	78 ⁺⁴ ₋₄	1363	4.72 ^{+0.05} _{-0.05}	18.19 ^{+0.06} _{-0.06}	2.06E+37	6.46E+34
5668	58758.952770241	563.4 ^{+1.3} _{-1.3}	3.1 ^{+0.5} _{-0.5}	166 ⁺¹¹⁵ ₋₁₁₅	1206	7.98 ^{+0.08} _{-0.08}	24.48 ^{+0.04} _{-0.04}	2.77E+37	4.22E+34
5669	58758.952803904	563.8 ^{+1.3} _{-1.3}	5.6 ^{+1.9} _{-1.9}	254 ⁺³³ ₋₃₃	1356	4.41 ^{+1.36} _{-1.36}	24.70 ^{+2.62} _{-2.62}	2.64E+37	2.81E+36
5670	58758.952831007	563.2 ^{+1.2} _{-1.2}	6.6 ^{+2.2} _{-2.2}	82 ⁺³⁹ ₋₃₉	1387	3.59 ^{+0.04} _{-0.04}	23.55 ^{+0.08} _{-0.08}	2.66E+37	9.23E+34
5671	58758.952831369	561.9 ^{+0.6} _{-0.6}	2.1 ^{+0.5} _{-0.5}	64 ⁺²¹ ₋₂₁	1373	5.25 ^{+0.05} _{-0.05}	10.97 ^{+0.03} _{-0.03}	1.24E+37	3.35E+34
5672	58758.952850285	563.5 ^{+1.2} _{-1.2}	2.7 ^{+0.7} _{-0.7}	140 ⁺¹³² ₋₁₃₂	1147	6.39 ^{+0.07} _{-0.07}	17.11 ^{+0.04} _{-0.04}	1.93E+37	5.00E+34
5673	58758.953383799	564.4 ^{+0.8} _{-0.8}	2.5 ^{+0.3} _{-0.3}	94 ⁺³⁸ ₋₃₈	1284	11.90 ^{+0.12} _{-0.12}	29.74 ^{+0.04} _{-0.04}	3.36E+37	4.01E+34
5674	58758.953705705	564.5 ^{+1.1} _{-1.1}	2.7 ^{+0.6} _{-0.6}	196 ⁺²⁷ ₋₂₇	1206	9.10 ^{+0.09} _{-0.09}	24.30 ^{+0.06} _{-0.06}	2.75E+37	6.67E+34
5675	58758.954298971	563.5 ^{+1.2} _{-1.2}	4.3 ^{+0.7} _{-0.7}	79 ⁺⁴⁷ ₋₄₇	1310	6.71 ^{+0.07} _{-0.07}	28.76 ^{+0.05} _{-0.05}	3.25E+37	5.80E+34
5676	58758.954474919	563.4 ^{+1.2} _{-1.2}	2.4 ^{+0.9} _{-0.9}	181 ⁺⁹ ₋₉	1240	3.78 ^{+0.04} _{-0.04}	9.07 ^{+0.04} _{-0.04}	1.02E+37	3.96E+34
5677	58758.954701693	562.6 ^{+0.4} _{-0.4}	2.9 ^{+0.8} _{-0.8}	327 ⁺⁹ ₋₉	1231	5.87 ^{+0.06} _{-0.06}	17.32 ^{+0.05} _{-0.05}	1.96E+37	5.26E+34
5678	58758.955157277	563.3 ^{+1.2} _{-1.2}	5.2 ^{+2.4} _{-2.4}	142 ⁺³¹ ₋₃₁	1186	4.00 ^{+0.04} _{-0.04}	20.72 ^{+0.10} _{-0.10}	2.34E+37	1.13E+35
5679	58758.955447384	564.3 ^{+0.7} _{-0.7}	3.1 ^{+0.3} _{-0.3}	147 ⁺¹³ ₋₁₃	1394	13.65 ^{+1.14} _{-1.14}	42.72 ^{+0.35} _{-0.35}	4.57E+37	3.78E+35
5680	58758.955494621	563.8 ^{+1.0} _{-1.0}	3.2 ^{+0.3} _{-0.3}	101 ⁺⁸ ₋₈	1420	11.86 ^{+1.07} _{-1.07}	37.95 ^{+0.36} _{-0.36}	4.06E+37	3.89E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5681	58758.955687900	563.1 ^{+1.2} _{-1.2}	4.7 ^{+1.7} _{-1.7}	75 ⁺¹⁰⁷ ₋₁₀₇	1107	4.66 ^{+0.05} _{-0.05}	21.95 ^{+0.09} _{-0.09}	2.48E+37	9.66E+34
5682	58758.955838904	563.6 ^{+1.1} _{-1.1}	5.1 ^{+1.0} _{-1.0}	81 ⁺⁴⁸ ₋₄₈	1276	6.49 ^{+0.07} _{-0.07}	32.94 ^{+0.07} _{-0.07}	3.72E+37	7.78E+34
5683	58758.956091450	564.1 ^{+0.1} _{-0.1}	1.9 ^{+0.0} _{-0.0}	378 ⁺¹⁵ ₋₁₅	1310	350.48 ^{+2.13} _{-2.13}	669.42 ^{+0.02} _{-0.02}	7.17E+38	2.28E+34
5684	58758.956092457	564.1 ^{+0.1} _{-0.1}	0.8 ^{+0.2} _{-0.2}	412 ⁺⁵ ₋₅	1293	5.01 ^{+0.94} _{-0.94}	4.26 ^{+0.20} _{-0.20}	4.56E+36	2.11E+35
5685	58758.956730344	564.2 ^{+1.1} _{-1.1}	4.4 ^{+0.7} _{-0.7}	91 ⁺¹⁵ ₋₁₅	1073	7.58 ^{+0.99} _{-0.99}	33.05 ^{+0.67} _{-0.67}	3.54E+37	7.21E+35
5686	58758.956897926	562.6 ^{+1.4} _{-1.4}	1.8 ^{+0.5} _{-0.5}	113 ⁺⁴⁸ ₋₄₈	1392	7.15 ^{+1.58} _{-1.58}	12.87 ^{+0.81} _{-0.81}	1.38E+37	8.63E+35
5687	58758.957255603	564.8 ^{+0.6} _{-0.6}	3.7 ^{+0.6} _{-0.6}	106 ⁺³⁸ ₋₃₈	1117	9.14 ^{+0.10} _{-0.10}	34.18 ^{+0.06} _{-0.06}	3.86E+37	7.08E+34
5688	58758.957693286	563.8 ^{+0.8} _{-0.8}	3.7 ^{+0.8} _{-0.8}	61 ⁺²⁰ ₋₂₀	1390	7.41 ^{+0.08} _{-0.08}	27.47 ^{+0.06} _{-0.06}	3.10E+37	7.11E+34
5689	58758.957869448	562.8 ^{+1.2} _{-1.2}	5.0 ^{+1.0} _{-1.0}	278 ⁺¹⁹ ₋₁₉	1201	5.46 ^{+0.06} _{-0.06}	27.21 ^{+0.06} _{-0.06}	3.07E+37	6.75E+34
5690	58758.958052677	563.3 ^{+1.2} _{-1.2}	4.9 ^{+1.1} _{-1.1}	89 ⁺⁴ ₋₄	1387	6.33 ^{+0.07} _{-0.07}	31.20 ^{+0.07} _{-0.07}	3.53E+37	8.31E+34
5691	58758.958330860	563.3 ^{+1.4} _{-1.4}	9.5 ^{+1.3} _{-1.3}	308 ⁺³⁴ ₋₃₄	1308	7.41 ^{+1.09} _{-1.09}	70.54 ^{+1.38} _{-1.38}	7.55E+37	1.48E+36
5692	58758.959043392	564.8 ^{+1.0} _{-1.0}	7.5 ^{+0.8} _{-0.8}	85 ⁺²⁸ ₋₂₈	1404	8.78 ^{+0.79} _{-0.79}	65.50 ^{+0.66} _{-0.66}	7.01E+37	7.10E+35
5693	58758.959177168	562.3 ^{+0.8} _{-0.8}	3.1 ^{+0.4} _{-0.4}	75 ⁺³⁴ ₋₃₄	1433	10.22 ^{+1.07} _{-1.07}	31.27 ^{+0.41} _{-0.41}	3.35E+37	4.35E+35
5694	58758.959278654	563.4 ^{+1.3} _{-1.3}	3.2 ^{+0.5} _{-0.5}	112 ⁺²⁷ ₋₂₇	1095	8.62 ^{+0.09} _{-0.09}	27.50 ^{+0.34} _{-0.34}	2.94E+37	3.63E+35
5695	58758.959656689	564.3 ^{+0.4} _{-0.4}	7.3 ^{+0.5} _{-0.5}	137 ⁺⁸ ₋₈	1430	17.29 ^{+0.80} _{-0.80}	126.74 ^{+0.39} _{-0.39}	1.36E+38	4.20E+35
5696	58758.959786937	562.6 ^{+1.2} _{-1.2}	7.2 ^{+1.8} _{-1.8}	94 ⁺²² ₋₂₂	1099	6.83 ^{+0.07} _{-0.07}	48.91 ^{+0.14} _{-0.14}	5.53E+37	1.54E+35
5697	58758.960069872	563.8 ^{+1.2} _{-1.2}	3.3 ^{+1.0} _{-1.0}	76 ⁺¹² ₋₁₂	1380	6.83 ^{+0.07} _{-0.07}	22.33 ^{+0.08} _{-0.08}	2.52E+37	8.63E+34
5698	58758.961726268	564.1 ^{+1.3} _{-1.3}	5.2 ^{+0.5} _{-0.5}	138 ⁺²⁷ ₋₂₇	1271	10.33 ^{+0.82} _{-0.82}	53.20 ^{+0.40} _{-0.40}	5.69E+37	4.30E+35
5699	58758.961827554	562.9 ^{+1.3} _{-1.3}	7.7 ^{+5.4} _{-5.4}	114 ⁺⁴⁷ ₋₄₇	1136	3.64 ^{+0.04} _{-0.04}	28.02 ^{+0.22} _{-0.22}	3.17E+37	2.46E+35
5700	58758.961828098	562.7 ^{+1.1} _{-1.1}	7.3 ^{+1.1} _{-1.1}	65 ⁺⁵⁴ ₋₅₄	1058	2.55 ^{+0.03} _{-0.03}	18.66 ^{+0.23} _{-0.23}	2.00E+37	2.51E+35
5701	58758.962323920	566.1 ^{+0.9} _{-0.9}	7.0 ^{+0.2} _{-0.2}	481 ⁺¹⁶ ₋₁₆	1258	46.03 ^{+0.79} _{-0.79}	319.91 ^{+0.17} _{-0.17}	3.42E+38	1.78E+35
5702	58758.963012365	565.3 ^{+0.4} _{-0.4}	3.5 ^{+0.4} _{-0.4}	180 ⁺¹³ ₋₁₃	1209	22.13 ^{+3.07} _{-3.07}	78.34 ^{+1.20} _{-1.20}	8.39E+37	1.28E+36
5703	58758.963012419	565.3 ^{+0.4} _{-0.4}	8.4 ^{+2.3} _{-2.3}	246 ⁺¹⁷ ₋₁₇	1168	7.66 ^{+1.00} _{-1.00}	64.65 ^{+2.33} _{-2.33}	6.92E+37	2.49E+36
5704	58758.963012627	565.6 ^{+0.6} _{-0.6}	3.8 ^{+1.1} _{-1.1}	295 ⁺⁹² ₋₉₂	1218	5.59 ^{+0.06} _{-0.06}	21.39 ^{+0.07} _{-0.07}	2.42E+37	7.62E+34
5705	58758.963468358	564.0 ^{+1.0} _{-1.0}	1.8 ^{+0.4} _{-0.4}	163 ⁺²¹ ₋₂₁	1387	7.94 ^{+1.57} _{-1.57}	14.29 ^{+0.71} _{-0.71}	1.53E+37	7.56E+35
5706	58758.963468396	564.0 ^{+1.0} _{-1.0}	8.8 ^{+1.2} _{-1.2}	109 ⁺²⁵ ₋₂₅	1365	6.38 ^{+0.78} _{-0.78}	55.82 ^{+0.96} _{-0.96}	5.98E+37	1.03E+36
5707	58758.964361221	564.6 ^{+1.1} _{-1.1}	4.5 ^{+0.5} _{-0.5}	301 ⁺³⁰ ₋₃₀	1251	11.02 ^{+0.98} _{-0.98}	49.15 ^{+0.46} _{-0.46}	5.26E+37	4.93E+35
5708	58758.964713477	565.0 ^{+1.2} _{-1.2}	6.5 ^{+0.5} _{-0.5}	102 ⁺¹⁶ ₋₁₆	1164	10.55 ^{+0.69} _{-0.69}	68.47 ^{+0.36} _{-0.36}	7.33E+37	3.84E+35
5709	58758.965064515	562.9 ^{+1.5} _{-1.5}	3.5 ^{+0.2} _{-0.2}	221 ⁺¹⁷ ₋₁₇	1379	23.26 ^{+0.97} _{-0.97}	82.34 ^{+0.16} _{-0.16}	8.81E+37	1.77E+35
5710	58758.965064565	563.7 ^{+0.5} _{-0.5}	3.2 ^{+0.3} _{-0.3}	48 ⁺³² ₋₃₂	1402	24.94 ^{+1.31} _{-1.31}	79.81 ^{+0.45} _{-0.45}	8.54E+37	4.77E+35
5711	58758.965872340	563.7 ^{+1.2} _{-1.2}	5.3 ^{+1.7} _{-1.7}	342 ⁺¹⁴⁶ ₋₁₄₆	1229	4.50 ^{+0.05} _{-0.05}	23.87 ^{+0.09} _{-0.09}	2.70E+37	9.63E+34
5712	58758.966167566	561.1 ^{+0.6} _{-0.6}	5.1 ^{+2.6} _{-2.6}	176 ⁺¹²⁴ ₋₁₂₄	1207	4.33 ^{+0.05} _{-0.05}	22.11 ^{+0.13} _{-0.13}	2.50E+37	1.42E+35
5713	58758.966798828	562.5 ^{+1.3} _{-1.3}	4.8 ^{+1.2} _{-1.2}	70 ⁺²⁶ ₋₂₆	1394	6.35 ^{+0.07} _{-0.07}	30.75 ^{+0.09} _{-0.09}	3.47E+37	9.73E+34
5714	58758.967215894	563.7 ^{+0.5} _{-0.5}	2.8 ^{+0.5} _{-0.5}	100 ⁺⁵⁰ ₋₅₀	1402	8.52 ^{+1.22} _{-1.22}	24.28 ^{+0.59} _{-0.59}	2.60E+37	6.27E+35
5715	58758.967218922	563.8 ^{+0.0} _{-0.0}	2.3 ^{+0.0} _{-0.0}	475 ⁺¹⁶ ₋₁₆	1245	264.36 ^{+1.41} _{-1.41}	600.10 ^{+0.01} _{-0.01}	6.42E+38	1.51E+34
5716	58758.967219964	563.8 ^{+0.0} _{-0.0}	1.0 ^{+0.2} _{-0.2}	473 ⁺¹⁷ ₋₁₇	1240	5.01 ^{+0.91} _{-0.91}	5.21 ^{+0.18} _{-0.18}	5.58E+36	1.95E+35
5717	58758.968389775	564.0 ^{+1.2} _{-1.2}	3.8 ^{+1.0} _{-1.0}	125 ⁺⁹ ₋₉	1273	6.57 ^{+0.08} _{-0.08}	24.94 ^{+0.07} _{-0.07}	2.82E+37	8.38E+34
5718	58758.969812058	564.9 ^{+0.7} _{-0.7}	3.3 ^{+0.4} _{-0.4}	63 ⁺⁴¹ ₋₄₁	1328	10.09 ^{+1.04} _{-1.04}	33.10 ^{+0.42} _{-0.42}	3.54E+37	4.45E+35
5719	58758.969935119	561.9 ^{+1.7} _{-1.7}	3.2 ^{+0.4} _{-0.4}	212 ⁺¹⁵ ₋₁₅	1220	10.06 ^{+1.08} _{-1.08}	31.99 ^{+0.43} _{-0.43}	3.42E+37	4.62E+35
5720	58758.970437055	563.4 ^{+1.3} _{-1.3}	3.9 ^{+0.7} _{-0.7}	118 ⁺¹⁵ ₋₁₅	1172	11.43 ^{+0.13} _{-0.13}	44.31 ^{+0.10} _{-0.10}	5.01E+37	1.11E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5721	58758.970640052	563.7 ^{+1.2} _{-1.2}	5.7 ^{+1.3} _{-1.3}	53 ⁺²⁷ ₋₂₇	1345	7.61 ^{+0.09} _{-0.09}	43.19 ^{+0.12} _{-0.12}	4.88E+37	1.32E+35
5722	58758.970786786	563.2 ^{+1.2} _{-1.2}	2.3 ^{+0.6} _{-0.6}	88 ⁺⁶ ₋₆	1116	6.96 ^{+0.08} _{-0.08}	16.16 ^{+0.05} _{-0.05}	1.83E+37	5.60E+34
5723	58758.971575379	563.0 ^{+0.8} _{-0.8}	3.8 ^{+0.9} _{-0.9}	53 ⁺¹³ ₋₁₃	1416	6.30 ^{+0.07} _{-0.07}	24.22 ^{+0.06} _{-0.06}	2.74E+37	7.14E+34
5724	58758.971818437	563.9 ^{+1.0} _{-1.0}	5.0 ^{+1.7} _{-1.7}	88 ⁺⁶ ₋₆	1398	4.35 ^{+0.05} _{-0.05}	21.87 ^{+0.09} _{-0.09}	2.47E+37	9.68E+34
5725	58758.972150796	563.9 ^{+0.7} _{-0.7}	3.0 ^{+0.5} _{-0.5}	134 ⁺⁶ ₋₆	1322	9.89 ^{+0.12} _{-0.12}	29.26 ^{+0.06} _{-0.06}	3.31E+37	6.41E+34
5726	58758.972154240	563.8 ^{+1.2} _{-1.2}	4.5 ^{+1.1} _{-1.1}	262 ⁺⁵⁷ ₋₅₇	1287	5.51 ^{+0.07} _{-0.07}	24.73 ^{+0.07} _{-0.07}	2.79E+37	8.32E+34
5727	58758.972785959	564.0 ^{+1.2} _{-1.2}	3.6 ^{+0.3} _{-0.3}	197 ⁺¹⁹ ₋₁₉	1266	15.06 ^{+1.14} _{-1.14}	54.07 ^{+0.36} _{-0.36}	5.79E+37	3.91E+35
5728	58758.973743394	564.6 ^{+0.9} _{-0.9}	3.0 ^{+0.6} _{-0.6}	115 ⁺¹⁵ ₋₁₅	1364	8.31 ^{+1.35} _{-1.35}	24.51 ^{+0.77} _{-0.77}	2.62E+37	8.24E+35
5729	58758.973743502	563.9 ^{+1.1} _{-1.1}	4.7 ^{+0.5} _{-0.5}	196 ⁺⁴² ₋₄₂	1325	12.51 ^{+1.08} _{-1.08}	58.92 ^{+0.53} _{-0.53}	6.31E+37	5.66E+35
5730	58758.973743872	564.8 ^{+0.7} _{-0.7}	9.5 ^{+0.9} _{-0.9}	180 ⁺⁵⁰ ₋₅₀	1228	10.29 ^{+0.12} _{-0.12}	97.44 ^{+0.11} _{-0.11}	1.10E+38	1.29E+35
5731	58758.973984560	563.7 ^{+1.0} _{-1.0}	2.1 ^{+0.3} _{-0.3}	77 ⁺⁴⁰ ₋₄₀	1378	9.89 ^{+0.12} _{-0.12}	21.18 ^{+0.04} _{-0.04}	2.39E+37	4.01E+34
5732	58758.974136686	565.2 ^{+0.8} _{-0.8}	6.0 ^{+0.5} _{-0.5}	217 ⁺⁷ ₋₇	1224	16.14 ^{+1.01} _{-1.01}	97.65 ^{+0.46} _{-0.46}	1.05E+38	4.97E+35
5733	58758.974296883	563.5 ^{+1.2} _{-1.2}	5.8 ^{+1.5} _{-1.5}	46 ⁺³² ₋₃₂	1128	6.51 ^{+0.08} _{-0.08}	37.59 ^{+0.12} _{-0.12}	4.25E+37	1.36E+35
5734	58758.974791613	565.9 ^{+0.4} _{-0.4}	6.4 ^{+0.4} _{-0.4}	278 ⁺²⁴ ₋₂₄	1357	21.50 ^{+0.98} _{-0.98}	138.03 ^{+0.36} _{-0.36}	1.48E+38	3.88E+35
5735	58758.974791742	565.8 ^{+0.5} _{-0.5}	6.9 ^{+0.8} _{-0.8}	122 ⁺³⁶ ₋₃₆	1413	10.62 ^{+0.96} _{-0.96}	72.96 ^{+0.75} _{-0.75}	7.81E+37	8.02E+35
5736	58758.974792632	564.2 ^{+0.7} _{-0.7}	3.1 ^{+0.4} _{-0.4}	139 ⁺³³ ₋₃₃	1168	11.72 ^{+1.34} _{-1.34}	36.21 ^{+0.56} _{-0.56}	3.88E+37	6.02E+35
5737	58758.975171773	564.9 ^{+1.0} _{-1.0}	5.0 ^{+0.9} _{-0.9}	121 ⁺⁸⁵ ₋₈₅	1345	7.55 ^{+1.09} _{-1.09}	37.90 ^{+0.95} _{-0.95}	4.06E+37	1.02E+36
5738	58758.975172071	562.8 ^{+0.3} _{-0.3}	2.6 ^{+0.5} _{-0.5}	78 ⁺³⁸ ₋₃₈	1265	6.38 ^{+0.08} _{-0.08}	16.38 ^{+0.04} _{-0.04}	1.85E+37	4.56E+34
5739	58758.975514904	563.6 ^{+1.4} _{-1.4}	2.1 ^{+0.9} _{-0.9}	62 ⁺³² ₋₃₂	1422	5.90 ^{+0.07} _{-0.07}	12.49 ^{+0.06} _{-0.06}	1.41E+37	6.92E+34
5740	58758.975515349	563.5 ^{+0.7} _{-0.7}	3.5 ^{+0.7} _{-0.7}	93 ⁺²²³ ₋₂₂₃	1276	8.93 ^{+0.11} _{-0.11}	31.56 ^{+0.07} _{-0.07}	3.57E+37	8.39E+34
5741	58758.975823466	563.9 ^{+1.2} _{-1.2}	3.4 ^{+0.7} _{-0.7}	66 ⁺³⁵ ₋₃₅	1338	6.90 ^{+0.08} _{-0.08}	23.64 ^{+0.06} _{-0.06}	2.67E+37	7.03E+34
5742	58758.976865277	565.2 ^{+0.5} _{-0.5}	3.1 ^{+0.3} _{-0.3}	179 ⁺¹² ₋₁₂	1228	16.44 ^{+1.34} _{-1.34}	51.29 ^{+0.40} _{-0.40}	5.49E+37	4.30E+35
5743	58758.976884959	561.8 ^{+1.1} _{-1.1}	5.6 ^{+1.7} _{-1.7}	127 ⁺³ ₋₃	1318	4.59 ^{+0.06} _{-0.06}	25.73 ^{+0.09} _{-0.09}	2.91E+37	1.06E+35
5744	58758.977040805	565.2 ^{+0.2} _{-0.2}	2.1 ^{+0.3} _{-0.3}	282 ⁺⁹ ₋₉	1358	21.33 ^{+1.99} _{-1.99}	44.37 ^{+0.52} _{-0.52}	4.75E+37	5.54E+35
5745	58758.977040844	565.2 ^{+0.2} _{-0.2}	2.6 ^{+0.0} _{-0.0}	374 ⁺⁴ ₋₄	1312	137.60 ^{+1.89} _{-1.89}	352.26 ^{+0.09} _{-0.09}	3.77E+38	1.01E+35
5746	58758.978338717	564.2 ^{+1.1} _{-1.1}	7.0 ^{+0.9} _{-0.9}	250 ⁺¹² ₋₁₂	1354	10.59 ^{+0.13} _{-0.13}	74.34 ^{+0.11} _{-0.11}	8.40E+37	1.29E+35
5747	58759.938446537	564.6 ^{+1.0} _{-1.0}	6.3 ^{+0.9} _{-0.9}	122 ⁺⁴⁵ ₋₄₅	1411	10.57 ^{+0.10} _{-0.10}	66.24 ^{+0.70} _{-0.70}	7.09E+37	7.45E+35
5748	58759.938871614	563.8 ^{+0.6} _{-0.6}	6.5 ^{+1.7} _{-1.7}	53 ⁺¹⁰ ₋₁₀	1109	8.47 ^{+0.08} _{-0.08}	55.46 ^{+0.13} _{-0.13}	6.27E+37	1.51E+35
5749	58759.939630978	563.3 ^{+1.3} _{-1.3}	3.3 ^{+0.5} _{-0.5}	59 ⁺¹³ ₋₁₃	1337	10.80 ^{+0.10} _{-0.10}	36.18 ^{+0.05} _{-0.05}	4.09E+37	6.15E+34
5750	58759.940216947	564.7 ^{+1.3} _{-1.3}	3.8 ^{+0.8} _{-0.8}	237 ⁺¹¹ ₋₁₁	1363	19.82 ^{+8.98} _{-8.98}	75.32 ^{+7.09} _{-7.09}	8.06E+37	7.59E+36
5751	58759.940216987	564.7 ^{+1.3} _{-1.3}	6.8 ^{+2.1} _{-2.1}	287 ⁺²⁵ ₋₂₅	1321	13.13 ^{+3.87} _{-3.87}	89.94 ^{+8.24} _{-8.24}	9.63E+37	8.82E+36
5752	58759.940624145	563.1 ^{+1.3} _{-1.3}	4.2 ^{+1.0} _{-1.0}	73 ⁺⁴⁰ ₋₄₀	1188	6.96 ^{+0.07} _{-0.07}	28.93 ^{+0.06} _{-0.06}	3.27E+37	7.20E+34
5753	58759.941553717	563.4 ^{+1.3} _{-1.3}	9.1 ^{+3.5} _{-3.5}	77 ⁺²² ₋₂₂	1094	7.80 ^{+0.07} _{-0.07}	71.13 ^{+0.26} _{-0.26}	8.04E+37	2.94E+35
5754	58759.941588224	564.2 ^{+0.9} _{-0.9}	3.4 ^{+1.4} _{-1.4}	53 ⁺⁴ ₋₄	1114	5.42 ^{+0.05} _{-0.05}	18.52 ^{+0.07} _{-0.07}	2.09E+37	8.23E+34
5755	58759.941857271	563.0 ^{+1.3} _{-1.3}	2.3 ^{+0.8} _{-0.8}	69 ⁺¹⁵ ₋₁₅	1110	5.21 ^{+0.05} _{-0.05}	11.99 ^{+0.04} _{-0.04}	1.36E+37	4.34E+34
5756	58759.942090782	562.7 ^{+0.5} _{-0.5}	5.1 ^{+0.4} _{-0.4}	214 ⁺²⁴ ₋₂₄	1350	13.06 ^{+0.86} _{-0.86}	67.13 ^{+0.35} _{-0.35}	7.19E+37	3.77E+35
5757	58759.942090872	563.2 ^{+0.5} _{-0.5}	6.5 ^{+1.6} _{-1.6}	140 ⁺¹⁴ ₋₁₄	1150	8.10 ^{+0.08} _{-0.08}	52.86 ^{+0.13} _{-0.13}	5.97E+37	1.43E+35
5758	58759.942504616	564.3 ^{+0.9} _{-0.9}	3.4 ^{+0.4} _{-0.4}	61 ⁺³⁷ ₋₃₇	1306	11.85 ^{+1.10} _{-1.10}	40.29 ^{+0.41} _{-0.41}	4.31E+37	4.36E+35
5759	58759.943268888	562.7 ^{+1.3} _{-1.3}	4.7 ^{+1.6} _{-1.6}	58 ⁺¹⁶ ₋₁₆	1057	6.84 ^{+0.07} _{-0.07}	32.27 ^{+0.11} _{-0.11}	3.65E+37	1.23E+35
5760	58759.943507861	562.1 ^{+1.2} _{-1.2}	2.4 ^{+0.2} _{-0.2}	158 ⁺⁸ ₋₈	1386	19.57 ^{+1.28} _{-1.28}	47.36 ^{+0.24} _{-0.24}	5.07E+37	2.60E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5761	58759.943763834	562.5 ^{+1.2} _{-1.2}	4.6 ^{+1.3} _{-1.3}	65 ⁺¹¹ ₋₁₁	1098	6.50 ^{+0.06} _{-0.06}	30.20 ^{+0.08} _{-0.08}	3.41E+37	9.32E+34
5762	58759.945846379	565.7 ^{+0.6} _{-0.6}	3.8 ^{+0.4} _{-0.4}	152 ⁺¹² ₋₁₂	1172	9.11 ^{+0.79} _{-0.79}	34.80 ^{+0.31} _{-0.31}	3.73E+37	3.30E+35
5763	58759.946388120	563.9 ^{+0.3} _{-0.3}	2.4 ^{+0.1} _{-0.1}	308 ⁺²³ ₋₂₃	1324	25.49 ^{+1.07} _{-1.07}	62.20 ^{+0.13} _{-0.13}	6.66E+37	1.37E+35
5764	58759.946784032	564.8 ^{+0.7} _{-0.7}	3.5 ^{+0.9} _{-0.9}	139 ⁺¹⁴ ₋₁₄	1239	8.25 ^{+0.08} _{-0.08}	28.82 ^{+0.07} _{-0.07}	3.26E+37	8.33E+34
5765	58759.947710899	563.1 ^{+1.2} _{-1.2}	10.2 ^{+0.7} _{-0.7}	213 ⁺¹² ₋₁₂	1247	10.13 ^{+0.55} _{-0.55}	103.22 ^{+0.40} _{-0.40}	1.11E+38	4.24E+35
5766	58759.947911496	563.8 ^{+1.1} _{-1.1}	6.4 ^{+1.8} _{-1.8}	47 ⁺¹⁰ ₋₁₀	1324	8.27 ^{+0.08} _{-0.08}	52.81 ^{+0.15} _{-0.15}	5.97E+37	1.67E+35
5767	58759.948295568	563.7 ^{+1.2} _{-1.2}	6.3 ^{+1.6} _{-1.6}	95 ⁺³² ₋₃₂	1168	9.16 ^{+0.09} _{-0.09}	57.68 ^{+0.15} _{-0.15}	6.52E+37	1.66E+35
5768	58759.949065080	564.7 ^{+0.8} _{-0.8}	3.3 ^{+0.5} _{-0.5}	146 ⁺³⁰ ₋₃₀	1406	11.38 ^{+0.12} _{-0.12}	38.03 ^{+0.06} _{-0.06}	4.30E+37	6.55E+34
5769	58759.950272095	563.2 ^{+0.8} _{-0.8}	5.1 ^{+0.7} _{-0.7}	356 ⁺³⁹ ₋₃₉	1241	11.83 ^{+0.12} _{-0.12}	60.24 ^{+0.70} _{-0.70}	6.45E+37	7.54E+35
5770	58759.951229003	563.4 ^{+1.3} _{-1.3}	4.1 ^{+1.7} _{-1.7}	103 ⁺⁴ ₋₄	1168	4.62 ^{+0.05} _{-0.05}	19.11 ^{+0.08} _{-0.08}	2.16E+37	9.29E+34
5771	58759.951459691	562.9 ^{+1.3} _{-1.3}	6.1 ^{+1.4} _{-1.4}	103 ⁺²⁷ ₋₂₇	1388	7.54 ^{+0.08} _{-0.08}	46.22 ^{+0.11} _{-0.11}	5.22E+37	1.24E+35
5772	58759.951841417	562.7 ^{+1.3} _{-1.3}	8.2 ^{+1.2} _{-1.2}	74 ⁺²⁷ ₋₂₇	1070	5.83 ^{+0.06} _{-0.06}	47.86 ^{+0.56} _{-0.56}	5.12E+37	6.03E+35
5773	58759.952667270	562.9 ^{+1.4} _{-1.4}	5.9 ^{+1.5} _{-1.5}	40 ⁺¹¹ ₋₁₁	1365	5.33 ^{+0.06} _{-0.06}	31.64 ^{+0.08} _{-0.08}	3.58E+37	9.40E+34
5774	58759.954270788	562.3 ^{+1.2} _{-1.2}	2.7 ^{+0.7} _{-0.7}	87 ⁺⁴ ₋₄	1348	4.94 ^{+0.05} _{-0.05}	13.40 ^{+0.04} _{-0.04}	1.51E+37	4.10E+34
5775	58759.954297712	563.9 ^{+1.2} _{-1.2}	4.9 ^{+1.8} _{-1.8}	55 ⁺³⁴ ₋₃₄	1081	5.35 ^{+0.06} _{-0.06}	26.15 ^{+0.10} _{-0.10}	2.95E+37	1.14E+35
5776	58759.954821096	564.7 ^{+0.8} _{-0.8}	2.5 ^{+0.2} _{-0.2}	140 ⁺²⁵ ₋₂₅	1405	17.36 ^{+1.32} _{-1.32}	43.57 ^{+0.30} _{-0.30}	4.66E+37	3.25E+35
5777	58759.955653527	563.3 ^{+1.4} _{-1.4}	4.4 ^{+0.4} _{-0.4}	168 ⁺²⁵ ₋₂₅	1398	16.05 ^{+1.12} _{-1.12}	71.26 ^{+0.41} _{-0.41}	7.63E+37	4.44E+35
5778	58759.956066540	564.0 ^{+1.0} _{-1.0}	4.7 ^{+0.7} _{-0.7}	70 ⁺²⁸ ₋₂₈	1293	8.60 ^{+1.08} _{-1.08}	40.68 ^{+0.77} _{-0.77}	4.35E+37	8.21E+35
5779	58759.956260731	563.3 ^{+1.3} _{-1.3}	7.9 ^{+1.6} _{-1.6}	157 ⁺¹⁸ ₋₁₈	1113	5.51 ^{+0.87} _{-0.87}	43.47 ^{+1.35} _{-1.35}	4.65E+37	1.44E+36
5780	58759.956529109	564.4 ^{+1.1} _{-1.1}	3.0 ^{+0.3} _{-0.3}	206 ⁺³⁵ ₋₃₅	1375	12.54 ^{+0.14} _{-0.14}	38.05 ^{+0.04} _{-0.04}	4.30E+37	5.03E+34
5781	58759.956676201	564.3 ^{+0.6} _{-0.6}	1.6 ^{+0.4} _{-0.4}	56 ⁺¹⁹ ₋₁₉	1080	6.63 ^{+0.07} _{-0.07}	10.42 ^{+0.03} _{-0.03}	1.18E+37	3.28E+34
5782	58759.957297736	563.5 ^{+1.3} _{-1.3}	4.5 ^{+1.0} _{-1.0}	254 ⁺¹⁰⁴ ₋₁₀₄	1243	5.40 ^{+0.06} _{-0.06}	24.17 ^{+0.06} _{-0.06}	2.73E+37	6.56E+34
5783	58759.958275026	563.8 ^{+0.8} _{-0.8}	2.9 ^{+0.9} _{-0.9}	255 ⁺⁵⁵ ₋₅₅	1290	3.94 ^{+0.04} _{-0.04}	11.24 ^{+0.04} _{-0.04}	1.27E+37	4.24E+34
5784	58759.958444139	564.4 ^{+0.8} _{-0.8}	2.7 ^{+0.2} _{-0.2}	145 ⁺³³ ₋₃₃	1383	16.92 ^{+1.33} _{-1.33}	45.51 ^{+0.33} _{-0.33}	4.87E+37	3.56E+35
5785	58759.958917570	563.8 ^{+1.2} _{-1.2}	6.4 ^{+1.4} _{-1.4}	58 ⁺³² ₋₃₂	1325	6.47 ^{+0.07} _{-0.07}	41.62 ^{+0.10} _{-0.10}	4.70E+37	1.09E+35
5786	58759.959761613	563.1 ^{+1.3} _{-1.3}	3.8 ^{+1.0} _{-1.0}	29 ⁺⁸ ₋₈	1236	4.19 ^{+0.05} _{-0.05}	16.07 ^{+0.05} _{-0.05}	1.82E+37	5.30E+34
5787	58759.959765690	562.9 ^{+1.3} _{-1.3}	12.2 ^{+1.9} _{-1.9}	158 ⁺⁴⁵ ₋₄₅	1217	6.36 ^{+0.74} _{-0.74}	77.72 ^{+1.44} _{-1.44}	8.32E+37	1.54E+36
5788	58759.959983443	563.3 ^{+1.3} _{-1.3}	5.2 ^{+2.0} _{-2.0}	236 ⁺⁶ ₋₆	1276	2.85 ^{+0.03} _{-0.03}	14.83 ^{+0.06} _{-0.06}	1.68E+37	7.10E+34
5789	58759.960222643	563.2 ^{+1.2} _{-1.2}	2.2 ^{+0.6} _{-0.6}	237 ⁺⁵⁷ ₋₅₇	1297	7.11 ^{+0.08} _{-0.08}	15.89 ^{+0.05} _{-0.05}	1.80E+37	5.54E+34
5790	58759.960620946	563.0 ^{+1.1} _{-1.1}	2.1 ^{+1.1} _{-1.1}	52 ⁺⁶ ₋₆	1198	3.95 ^{+0.04} _{-0.04}	8.45 ^{+0.05} _{-0.05}	9.55E+36	5.23E+34
5791	58759.961364578	565.2 ^{+1.0} _{-1.0}	4.9 ^{+0.8} _{-0.8}	83 ⁺²⁶ ₋₂₆	1248	8.36 ^{+1.12} _{-1.12}	40.63 ^{+0.88} _{-0.88}	4.35E+37	9.47E+35
5792	58759.961902890	563.2 ^{+0.4} _{-0.4}	1.7 ^{+0.2} _{-0.2}	74 ⁺¹⁸ ₋₁₈	1428	9.94 ^{+0.11} _{-0.11}	16.99 ^{+0.02} _{-0.02}	1.92E+37	2.68E+34
5793	58759.962476152	563.4 ^{+1.3} _{-1.3}	7.6 ^{+0.9} _{-0.9}	173 ⁺⁴⁵ ₋₄₅	1247	10.31 ^{+0.94} _{-0.94}	78.05 ^{+0.81} _{-0.81}	8.35E+37	8.65E+35
5794	58759.962783653	563.5 ^{+1.4} _{-1.4}	4.6 ^{+1.0} _{-1.0}	77 ⁺⁴⁰ ₋₄₀	1294	5.49 ^{+0.06} _{-0.06}	25.53 ^{+0.06} _{-0.06}	2.88E+37	6.89E+34
5795	58759.963165660	563.3 ^{+1.4} _{-1.4}	5.9 ^{+1.4} _{-1.4}	49 ⁺²⁶ ₋₂₆	1321	5.64 ^{+0.06} _{-0.06}	33.01 ^{+0.09} _{-0.09}	3.73E+37	1.05E+35
5796	58759.963603357	563.1 ^{+1.1} _{-1.1}	3.6 ^{+0.7} _{-0.7}	86 ⁺³⁹ ₋₃₉	1202	7.92 ^{+0.09} _{-0.09}	28.36 ^{+0.06} _{-0.06}	3.20E+37	6.89E+34
5797	58759.963680274	563.0 ^{+1.2} _{-1.2}	7.0 ^{+2.2} _{-2.2}	80 ⁺²¹ ₋₂₁	1096	4.57 ^{+0.05} _{-0.05}	31.86 ^{+0.11} _{-0.11}	3.60E+37	1.27E+35
5798	58759.964425506	564.6 ^{+1.1} _{-1.1}	4.9 ^{+0.5} _{-0.5}	152 ⁺¹⁶ ₋₁₆	1146	12.88 ^{+1.07} _{-1.07}	63.37 ^{+0.52} _{-0.52}	6.78E+37	5.61E+35
5799	58759.964832593	563.2 ^{+1.3} _{-1.3}	6.6 ^{+2.8} _{-2.8}	57 ⁺²⁵ ₋₂₅	1420	3.96 ^{+0.04} _{-0.04}	25.99 ^{+0.12} _{-0.12}	2.94E+37	1.41E+35
5800	58759.965382616	563.2 ^{+1.3} _{-1.3}	3.2 ^{+0.7} _{-0.7}	124 ⁺²⁴ ₋₂₄	1409	8.09 ^{+0.09} _{-0.09}	25.52 ^{+0.06} _{-0.06}	2.88E+37	6.97E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5801	58759.965892822	563.2 ^{+1.4} _{-1.4}	7.5 ^{+2.1} _{-2.1}	90 ⁺³⁷ ₋₃₇	1340	5.42 ^{+0.06} _{-0.06}	40.57 ^{+0.13} _{-0.13}	4.58E+37	1.48E+35
5802	58759.966026329	563.0 ^{+1.2} _{-1.2}	3.3 ^{+0.7} _{-0.7}	57 ⁺⁵ ₋₅	1386	7.66 ^{+0.09} _{-0.09}	25.51 ^{+0.06} _{-0.06}	2.88E+37	6.89E+34
5803	58759.966382656	564.3 ^{+1.0} _{-1.0}	8.4 ^{+1.4} _{-1.4}	139 ⁺³⁶ ₋₃₆	1290	6.64 ^{+0.87} _{-0.87}	55.44 ^{+1.20} _{-1.20}	5.94E+37	1.29E+36
5804	58759.967023324	563.2 ^{+0.7} _{-0.7}	3.6 ^{+0.5} _{-0.5}	99 ⁺¹⁸ ₋₁₈	1073	8.01 ^{+0.09} _{-0.09}	28.72 ^{+0.38} _{-0.38}	3.07E+37	4.08E+35
5805	58759.968361424	564.3 ^{+1.1} _{-1.1}	3.8 ^{+0.7} _{-0.7}	85 ⁺⁹ ₋₉	1272	7.24 ^{+0.09} _{-0.09}	27.83 ^{+0.06} _{-0.06}	3.14E+37	6.97E+34
5806	58759.968604879	564.3 ^{+0.8} _{-0.8}	3.0 ^{+1.0} _{-1.0}	101 ⁺⁵ ₋₅	1238	5.74 ^{+0.07} _{-0.07}	17.12 ^{+0.07} _{-0.07}	1.93E+37	7.42E+34
5807	58759.970671498	562.9 ^{+1.3} _{-1.3}	4.0 ^{+0.9} _{-0.9}	71 ⁺³⁶ ₋₃₆	1315	6.30 ^{+0.08} _{-0.08}	25.32 ^{+0.07} _{-0.07}	2.86E+37	7.86E+34
5808	58759.970672620	564.0 ^{+1.2} _{-1.2}	3.7 ^{+0.9} _{-0.9}	70 ⁺⁴ ₋₄	1189	5.82 ^{+0.07} _{-0.07}	21.76 ^{+0.06} _{-0.06}	2.46E+37	6.76E+34
5809	58759.971361057	564.9 ^{+0.7} _{-0.7}	4.7 ^{+0.5} _{-0.5}	136 ⁺³⁴ ₋₃₄	1369	14.08 ^{+1.18} _{-1.18}	66.60 ^{+0.57} _{-0.57}	7.13E+37	6.06E+35
5810	58759.971932271	565.0 ^{+0.6} _{-0.6}	3.8 ^{+1.4} _{-1.4}	86 ⁺¹⁴ ₋₁₄	1349	6.23 ^{+0.07} _{-0.07}	23.61 ^{+0.11} _{-0.11}	2.67E+37	1.21E+35
5811	58759.972047257	563.4 ^{+1.4} _{-1.4}	5.1 ^{+0.6} _{-0.6}	100 ⁺¹⁸ ₋₁₈	1433	11.33 ^{+1.11} _{-1.11}	57.33 ^{+0.67} _{-0.67}	6.14E+37	7.13E+35
5812	58759.972811252	563.4 ^{+1.2} _{-1.2}	1.9 ^{+0.5} _{-0.5}	288 ⁺¹⁰ ₋₁₀	1334	10.80 ^{+2.36} _{-2.36}	20.63 ^{+1.18} _{-1.18}	2.21E+37	1.26E+36
5813	58759.972811485	563.1 ^{+1.1} _{-1.1}	6.5 ^{+1.6} _{-1.6}	101 ⁺⁴⁵ ₋₄₅	1398	5.63 ^{+0.07} _{-0.07}	36.82 ^{+0.11} _{-0.11}	4.16E+37	1.25E+35
5814	58759.973544710	563.2 ^{+1.2} _{-1.2}	3.1 ^{+1.1} _{-1.1}	133 ⁺⁵ ₋₅	1263	6.35 ^{+0.08} _{-0.08}	19.55 ^{+0.08} _{-0.08}	2.21E+37	9.51E+34
5815	58759.974964941	563.5 ^{+1.2} _{-1.2}	1.6 ^{+0.7} _{-0.7}	97 ⁺³ ₋₃	1113	5.03 ^{+0.06} _{-0.06}	8.08 ^{+0.05} _{-0.05}	9.13E+36	5.10E+34
5816	58759.974965250	562.8 ^{+1.3} _{-1.3}	5.7 ^{+2.3} _{-2.3}	76 ⁺²⁵ ₋₂₅	1102	5.99 ^{+0.07} _{-0.07}	34.39 ^{+0.17} _{-0.17}	3.89E+37	1.95E+35
5817	58759.975323513	563.7 ^{+1.3} _{-1.3}	3.9 ^{+1.2} _{-1.2}	137 ⁺⁴⁰ ₋₄₀	1169	5.98 ^{+0.07} _{-0.07}	23.33 ^{+0.09} _{-0.09}	2.64E+37	9.85E+34
5818	58759.976080392	563.6 ^{+1.2} _{-1.2}	10.2 ^{+2.9} _{-2.9}	81 ⁺¹² ₋₁₂	1083	6.49 ^{+0.08} _{-0.08}	65.99 ^{+0.23} _{-0.23}	7.45E+37	2.62E+35
5819	58759.976642766	565.3 ^{+1.0} _{-1.0}	2.7 ^{+0.3} _{-0.3}	137 ⁺²⁶ ₋₂₆	1389	16.88 ^{+0.21} _{-0.21}	45.49 ^{+0.06} _{-0.06}	5.14E+37	6.24E+34
5820	58759.978308756	563.0 ^{+1.3} _{-1.3}	5.1 ^{+0.9} _{-0.9}	144 ⁺²⁰ ₋₂₀	1371	8.86 ^{+0.11} _{-0.11}	45.09 ^{+0.10} _{-0.10}	5.09E+37	1.18E+35
5821	58762.834602028	564.2 ^{+0.1} _{-0.1}	2.6 ^{+0.6} _{-0.6}	401 ⁺¹⁸ ₋₁₈	1272	14.46 ^{+1.45} _{-1.45}	37.89 ^{+0.80} _{-0.80}	4.06E+37	8.54E+35
5822	58762.843549120	564.4 ^{+0.0} _{-0.0}	2.0 ^{+0.0} _{-0.0}	369 ⁺⁷ ₋₇	1315	141.09 ^{+1.32} _{-1.32}	286.41 ^{+0.03} _{-0.03}	3.07E+38	2.83E+34
5823	58762.853652877	565.2 ^{+0.7} _{-0.7}	3.8 ^{+0.2} _{-0.2}	294 ⁺¹⁴ ₋₁₄	1271	20.25 ^{+0.98} _{-0.98}	77.15 ^{+0.22} _{-0.22}	8.26E+37	2.31E+35
5824	58763.821390123	563.7 ^{+0.8} _{-0.8}	3.2 ^{+0.2} _{-0.2}	199 ⁺³¹ ₋₃₁	1386	17.38 ^{+1.09} _{-1.09}	54.92 ^{+0.26} _{-0.26}	5.88E+37	2.80E+35
5825	58763.825125891	564.0 ^{+0.2} _{-0.2}	2.7 ^{+0.1} _{-0.1}	212 ⁺¹⁸ ₋₁₈	1393	38.23 ^{+1.30} _{-1.30}	102.07 ^{+0.16} _{-0.16}	1.09E+38	1.67E+35
5826	58763.837303975	562.5 ^{+1.0} _{-1.0}	8.4 ^{+3.8} _{-3.8}	250 ⁺¹⁶⁴ ₋₁₆₄	1201	3.85 ^{+0.04} _{-0.04}	32.49 ^{+0.15} _{-0.15}	3.67E+37	1.73E+35
5827	58763.840231356	562.6 ^{+1.1} _{-1.1}	4.0 ^{+0.5} _{-0.5}	204 ⁺⁴⁹ ₋₄₉	1365	9.10 ^{+0.99} _{-0.99}	36.31 ^{+0.51} _{-0.51}	3.89E+37	5.51E+35
5828	58763.840232420	562.9 ^{+1.2} _{-1.2}	3.8 ^{+1.2} _{-1.2}	87 ⁺⁴ ₋₄	1376	4.91 ^{+0.05} _{-0.05}	18.59 ^{+0.06} _{-0.06}	2.10E+37	7.03E+34
5829	58764.938761367	563.4 ^{+1.3} _{-1.3}	9.3 ^{+1.3} _{-1.3}	144 ⁺³⁸ ₋₃₈	1291	7.35 ^{+0.08} _{-0.08}	68.68 ^{+0.81} _{-0.81}	7.35E+37	8.70E+35
5830	58764.951551261	563.3 ^{+1.2} _{-1.2}	9.5 ^{+1.4} _{-1.4}	120 ⁺¹¹ ₋₁₁	1182	7.90 ^{+0.09} _{-0.09}	74.83 ^{+0.98} _{-0.98}	8.01E+37	1.04E+36
5831	58764.958338295	562.3 ^{+1.1} _{-1.1}	4.9 ^{+1.4} _{-1.4}	53 ⁺²⁷ ₋₂₇	1124	4.18 ^{+0.05} _{-0.05}	20.28 ^{+0.07} _{-0.07}	2.29E+37	7.70E+34
5832	58764.965661103	562.5 ^{+0.9} _{-0.9}	5.2 ^{+1.7} _{-1.7}	85 ⁺⁴⁵ ₋₄₅	1265	5.70 ^{+0.07} _{-0.07}	29.74 ^{+0.12} _{-0.12}	3.36E+37	1.39E+35
5833	58764.972675297	562.4 ^{+1.2} _{-1.2}	1.8 ^{+1.0} _{-1.0}	56 ⁺¹⁸ ₋₁₈	1403	4.23 ^{+0.04} _{-0.04}	7.40 ^{+0.04} _{-0.04}	8.36E+36	5.01E+34
5834	58766.925918437	564.2 ^{+0.7} _{-0.7}	7.0 ^{+0.8} _{-0.8}	337 ⁺⁶³ ₋₆₃	1243	9.10 ^{+0.77} _{-0.77}	63.61 ^{+0.62} _{-0.62}	6.81E+37	6.59E+35
5835	58766.926399791	565.3 ^{+0.2} _{-0.2}	2.9 ^{+0.1} _{-0.1}	307 ⁺¹⁶ ₋₁₆	1331	41.39 ^{+1.11} _{-1.11}	119.20 ^{+0.10} _{-0.10}	1.28E+38	1.07E+35
5836	58766.927746532	564.3 ^{+0.6} _{-0.6}	1.9 ^{+0.5} _{-0.5}	74 ⁺²⁴ ₋₂₄	1348	8.63 ^{+0.09} _{-0.09}	16.51 ^{+0.04} _{-0.04}	1.87E+37	5.00E+34
5837	58766.930261018	563.8 ^{+1.1} _{-1.1}	2.8 ^{+0.7} _{-0.7}	277 ⁺¹⁸ ₋₁₈	1251	11.22 ^{+0.11} _{-0.11}	31.29 ^{+0.08} _{-0.08}	3.54E+37	8.82E+34
5838	58766.945850259	563.5 ^{+0.1} _{-0.1}	5.6 ^{+0.1} _{-0.1}	280 ⁺¹⁸ ₋₁₈	1359	59.30 ^{+1.40} _{-1.40}	329.11 ^{+0.18} _{-0.18}	3.52E+38	1.95E+35
5839	58766.945850282	563.5 ^{+0.1} _{-0.1}	1.5 ^{+0.2} _{-0.2}	396 ⁺³² ₋₃₂	1301	31.01 ^{+2.46} _{-2.46}	47.14 ^{+0.37} _{-0.37}	5.05E+37	3.95E+35
5840	58766.949652891	562.8 ^{+1.3} _{-1.3}	4.4 ^{+0.9} _{-0.9}	76 ⁺⁵ ₋₅	1397	4.39 ^{+0.05} _{-0.05}	19.13 ^{+0.05} _{-0.05}	2.16E+37	5.26E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^{a)}	DM ^{b)}	W _{eff} ^{c)}	Bandwidth ^{d)}	Cntrl freq.	Peak flux	Fluence	Energy ^{e)} _{1.25GHz}	Err.Energy ^{f)} _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5841	58766.954026635	564.8 ^{+1.1} _{-1.1}	7.0 ^{+0.4} _{-0.4}	313 ⁺⁵⁴ ₋₅₄	1276	19.63 ^{+0.94} _{-0.94}	137.41 ^{+0.39} _{-0.39}	1.47E+38	4.13E+35
5842	58767.943516914	563.1 ^{+1.2} _{-1.2}	4.5 ^{+1.3} _{-1.3}	176 ⁺⁴ ₋₄	1330	3.94 ^{+0.04} _{-0.04}	17.82 ^{+0.06} _{-0.06}	2.01E+37	6.62E+34
5843	58767.948033460	565.9 ^{+0.6} _{-0.6}	3.3 ^{+0.3} _{-0.3}	214 ⁺¹² ₋₁₂	1389	17.52 ^{+0.21} _{-0.21}	57.34 ^{+0.06} _{-0.06}	6.48E+37	6.49E+34
5844	58767.950939511	562.9 ^{+1.3} _{-1.3}	3.3 ^{+0.4} _{-0.4}	223 ⁺⁴⁰ ₋₄₀	1273	13.50 ^{+1.31} _{-1.31}	44.55 ^{+0.50} _{-0.50}	4.77E+37	5.33E+35
5845	58767.957658716	564.0 ^{+0.4} _{-0.4}	2.8 ^{+0.1} _{-0.1}	165 ⁺¹⁵ ₋₁₅	1413	38.25 ^{+1.55} _{-1.55}	109.01 ^{+0.22} _{-0.22}	1.17E+38	2.32E+35
5846	58767.970666345	562.0 ^{+1.4} _{-1.4}	6.5 ^{+2.3} _{-2.3}	124 ⁺⁴² ₋₄₂	1413	8.79 ^{+0.10} _{-0.10}	56.76 ^{+0.23} _{-0.23}	6.41E+37	2.60E+35
5847	58767.972593291	564.7 ^{+0.7} _{-0.7}	6.9 ^{+1.2} _{-1.2}	134 ⁺¹⁹ ₋₁₉	1186	10.26 ^{+0.12} _{-0.12}	70.34 ^{+0.14} _{-0.14}	7.95E+37	1.58E+35
5848	58767.972593718	562.2 ^{+1.4} _{-1.4}	10.6 ^{+1.5} _{-1.5}	145 ⁺³⁰ ₋₃₀	1163	5.42 ^{+0.06} _{-0.06}	57.22 ^{+0.76} _{-0.76}	6.13E+37	8.15E+35
5849	58768.905021425	564.4 ^{+0.9} _{-0.9}	5.9 ^{+0.2} _{-0.2}	312 ⁺¹⁹ ₋₁₉	1327	25.19 ^{+0.72} _{-0.72}	149.12 ^{+0.15} _{-0.15}	1.60E+38	1.62E+35
5850	58768.905021452	564.4 ^{+0.9} _{-0.9}	3.2 ^{+0.6} _{-0.6}	325 ⁺¹¹ ₋₁₁	1307	22.87 ^{+0.92} _{-0.92}	73.18 ^{+0.52} _{-0.52}	7.83E+37	5.52E+35
5851	58768.908496894	565.2 ^{+0.6} _{-0.6}	6.0 ^{+0.3} _{-0.3}	274 ⁺³¹ ₋₃₁	1354	16.09 ^{+0.69} _{-0.69}	97.34 ^{+0.22} _{-0.22}	1.04E+38	2.36E+35
5852	58768.922118655	565.9 ^{+0.5} _{-0.5}	3.7 ^{+0.2} _{-0.2}	183 ⁺²² ₋₂₂	1400	22.15 ^{+0.94} _{-0.94}	82.62 ^{+0.18} _{-0.18}	8.84E+37	1.91E+35
5853	58768.922118720	565.9 ^{+0.5} _{-0.5}	3.2 ^{+0.3} _{-0.3}	229 ⁺²¹ ₋₂₁	1381	22.56 ^{+0.84} _{-0.84}	72.19 ^{+0.29} _{-0.29}	7.73E+37	3.06E+35
5854	58768.936518480	564.6 ^{+1.1} _{-1.1}	3.2 ^{+0.2} _{-0.2}	128 ⁺³³ ₋₃₃	1411	19.21 ^{+1.20} _{-1.20}	61.66 ^{+0.29} _{-0.29}	6.60E+37	3.08E+35
5855	58768.943009864	563.0 ^{+1.2} _{-1.2}	9.2 ^{+2.2} _{-2.2}	96 ⁺⁶¹ ₋₆₁	1368	5.81 ^{+0.07} _{-0.07}	53.36 ^{+0.15} _{-0.15}	6.03E+37	1.67E+35
5856	58768.943465822	564.5 ^{+0.2} _{-0.2}	5.2 ^{+0.1} _{-0.1}	384 ⁺²⁰ ₋₂₀	1307	55.65 ^{+0.65} _{-0.65}	286.58 ^{+0.10} _{-0.10}	3.24E+38	1.08E+35
5857	58770.928161440	564.5 ^{+0.7} _{-0.7}	5.0 ^{+0.6} _{-0.6}	94 ⁺⁸ ₋₈	1297	9.72 ^{+0.11} _{-0.11}	48.33 ^{+0.07} _{-0.07}	5.46E+37	7.46E+34
5858	58770.939192962	563.4 ^{+1.5} _{-1.5}	7.1 ^{+1.2} _{-1.2}	96 ⁺³⁵ ₋₃₅	1391	6.01 ^{+0.07} _{-0.07}	42.69 ^{+0.09} _{-0.09}	4.82E+37	9.88E+34
5859	58770.939934544	563.5 ^{+1.3} _{-1.3}	6.3 ^{+1.4} _{-1.4}	125 ⁺³⁷ ₋₃₇	1335	4.98 ^{+0.06} _{-0.06}	31.39 ^{+0.08} _{-0.08}	3.55E+37	9.54E+34
5860	58772.901351996	563.2 ^{+1.2} _{-1.2}	2.0 ^{+0.7} _{-0.7}	90 ⁺³ ₋₃	1095	3.81 ^{+0.04} _{-0.04}	7.77 ^{+0.03} _{-0.03}	8.79E+36	2.94E+34
5861	58772.901519915	563.2 ^{+1.1} _{-1.1}	2.2 ^{+0.5} _{-0.5}	266 ⁺²¹ ₋₂₁	1138	8.20 ^{+1.22} _{-1.22}	18.04 ^{+0.59} _{-0.59}	1.93E+37	6.27E+35
5862	58772.902904817	564.3 ^{+0.2} _{-0.2}	1.6 ^{+0.1} _{-0.1}	331 ⁺³⁷ ₋₃₇	1248	27.32 ^{+1.12} _{-1.12}	43.17 ^{+0.09} _{-0.09}	4.62E+37	9.59E+34
5863	58772.902904817	564.3 ^{+0.2} _{-0.2}	1.6 ^{+0.1} _{-0.1}	363 ⁺¹⁷ ₋₁₇	1214	27.32 ^{+1.12} _{-1.12}	43.17 ^{+0.09} _{-0.09}	4.62E+37	9.59E+34
5864	58772.914332936	562.1 ^{+1.0} _{-1.0}	4.2 ^{+1.0} _{-1.0}	114 ⁺⁶⁵ ₋₆₅	1199	15.89 ^{+0.16} _{-0.16}	66.75 ^{+0.15} _{-0.15}	7.54E+37	1.75E+35
5865	58772.923661178	562.4 ^{+1.2} _{-1.2}	5.2 ^{+1.1} _{-1.1}	331 ⁺¹⁷⁰ ₋₁₇₀	1209	12.95 ^{+0.14} _{-0.14}	67.32 ^{+0.15} _{-0.15}	7.61E+37	1.75E+35
5866	58772.925093735	563.1 ^{+1.1} _{-1.1}	7.6 ^{+1.2} _{-1.2}	63 ⁺⁵ ₋₅	1425	9.62 ^{+0.11} _{-0.11}	73.50 ^{+0.13} _{-0.13}	8.31E+37	1.47E+35
5867	58772.926637709	565.3 ^{+0.1} _{-0.1}	2.8 ^{+0.1} _{-0.1}	360 ⁺²³ ₋₂₃	1301	62.88 ^{+1.45} _{-1.45}	172.92 ^{+0.10} _{-0.10}	1.85E+38	1.09E+35
5868	58772.930088102	562.7 ^{+1.3} _{-1.3}	6.4 ^{+1.8} _{-1.8}	359 ⁺²¹ ₋₂₁	1238	11.09 ^{+0.13} _{-0.13}	71.33 ^{+0.23} _{-0.23}	8.06E+37	2.62E+35
5869	58772.934840842	563.9 ^{+0.8} _{-0.8}	2.0 ^{+0.3} _{-0.3}	92 ⁺³⁸ ₋₃₈	1385	14.18 ^{+0.17} _{-0.17}	28.31 ^{+0.05} _{-0.05}	3.20E+37	6.17E+34
5870	58772.936156837	563.8 ^{+0.9} _{-0.9}	3.0 ^{+0.6} _{-0.6}	82 ⁺⁵ ₋₅	1365	7.79 ^{+0.09} _{-0.09}	23.36 ^{+0.06} _{-0.06}	2.64E+37	6.71E+34
5871	58773.907283648	562.3 ^{+1.2} _{-1.2}	6.4 ^{+2.0} _{-2.0}	92 ⁺⁴ ₋₄	1350	5.21 ^{+0.05} _{-0.05}	33.25 ^{+0.10} _{-0.10}	3.76E+37	1.17E+35
5872	58773.908801603	563.4 ^{+1.4} _{-1.4}	3.7 ^{+1.0} _{-1.0}	43 ⁺⁴ ₋₄	1429	5.66 ^{+0.06} _{-0.06}	21.10 ^{+0.05} _{-0.05}	2.38E+37	6.16E+34
5873	58773.913438774	562.6 ^{+1.1} _{-1.1}	2.4 ^{+0.6} _{-0.6}	71 ⁺²² ₋₂₂	1082	7.13 ^{+0.07} _{-0.07}	17.40 ^{+0.04} _{-0.04}	1.97E+37	5.07E+34
5874	58774.902823753	561.9 ^{+0.9} _{-0.9}	7.2 ^{+1.0} _{-1.0}	122 ⁺⁵² ₋₅₂	1169	8.30 ^{+0.08} _{-0.08}	59.50 ^{+0.08} _{-0.08}	6.72E+37	9.09E+34
5875	58774.920476435	564.2 ^{+0.3} _{-0.3}	2.4 ^{+0.4} _{-0.4}	81 ⁺¹⁵ ₋₁₅	1060	14.60 ^{+0.16} _{-0.16}	35.61 ^{+0.45} _{-0.45}	3.81E+37	4.87E+35
5876	58776.834018736	564.6 ^{+1.0} _{-1.0}	5.5 ^{+1.3} _{-1.3}	77 ⁺¹¹ ₋₁₁	1173	6.09 ^{+0.05} _{-0.05}	33.68 ^{+0.06} _{-0.06}	3.80E+37	7.18E+34
5877	58776.834727990	563.1 ^{+1.2} _{-1.2}	4.6 ^{+1.0} _{-1.0}	52 ⁺⁷ ₋₇	1197	6.84 ^{+0.05} _{-0.05}	31.14 ^{+0.06} _{-0.06}	3.52E+37	6.37E+34
5878	58776.835120556	563.8 ^{+1.0} _{-1.0}	23.2 ^{+6.0} _{-6.0}	121 ⁺²⁹ ₋₂₉	1256	5.64 ^{+1.30} _{-1.30}	130.96 ^{+7.76} _{-7.76}	1.40E+38	8.31E+36
5879	58776.836040062	564.3 ^{+0.9} _{-0.9}	8.5 ^{+2.0} _{-2.0}	52 ⁺¹⁰ ₋₁₀	1153	5.34 ^{+0.04} _{-0.04}	45.33 ^{+0.08} _{-0.08}	5.12E+37	9.35E+34
5880	58776.836147514	562.6 ^{+1.2} _{-1.2}	12.2 ^{+3.0} _{-3.0}	176 ⁺⁵² ₋₅₂	1213	4.47 ^{+0.04} _{-0.04}	54.38 ^{+0.10} _{-0.10}	6.14E+37	1.19E+35

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^(a)	DM ^(b)	W _{eff} ^(c)	Bandwidth ^(d)	Cntrl freq.	Peak flux	Fluence	Energy ^(e) _{1.25GHz}	Err.Energy ^(f) _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5881	58776.836403606	563.4 ^{+1.2} _{-1.2}	10.7 ^{+1.0} _{-1.0}	247 ⁺⁶⁴ ₋₆₄	1360	8.22 ^{+0.58} _{-0.58}	88.04 ^{+0.57} _{-0.57}	9.42E+37	6.15E+35
5882	58776.837083487	562.8 ^{+1.3} _{-1.3}	5.4 ^{+0.6} _{-0.6}	133 ⁺²⁵ ₋₂₅	1383	7.77 ^{+0.76} _{-0.76}	41.88 ^{+0.49} _{-0.49}	4.48E+37	5.21E+35
5883	58776.838132125	562.6 ^{+1.1} _{-1.1}	6.5 ^{+1.8} _{-1.8}	69 ⁺¹⁵ ₋₁₅	1387	6.64 ^{+0.05} _{-0.05}	42.94 ^{+0.09} _{-0.09}	4.85E+37	1.05E+35
5884	58776.838684028	563.1 ^{+0.4} _{-0.4}	9.1 ^{+2.0} _{-2.0}	63 ⁺³⁴ ₋₃₄	1362	6.03 ^{+0.05} _{-0.05}	54.64 ^{+0.09} _{-0.09}	6.17E+37	1.05E+35
5885	58776.839292691	565.4 ^{+0.2} _{-0.2}	2.1 ^{+0.1} _{-0.1}	246 ⁺²⁰ ₋₂₀	1374	43.51 ^{+1.16} _{-1.16}	92.24 ^{+0.08} _{-0.08}	9.87E+37	8.69E+34
5886	58776.842128461	563.4 ^{+1.3} _{-1.3}	2.4 ^{+0.9} _{-0.9}	101 ⁺⁵ ₋₅	1391	4.97 ^{+0.04} _{-0.04}	11.79 ^{+0.04} _{-0.04}	1.33E+37	3.98E+34
5887	58776.846987858	564.9 ^{+1.3} _{-1.3}	5.2 ^{+0.3} _{-0.3}	214 ⁺²⁴ ₋₂₄	1382	16.44 ^{+0.65} _{-0.65}	85.49 ^{+0.19} _{-0.19}	9.15E+37	2.02E+35
5888	58776.846987912	564.9 ^{+1.3} _{-1.3}	1.5 ^{+0.4} _{-0.4}	282 ⁺¹⁹ ₋₁₉	1329	4.98 ^{+1.19} _{-1.19}	7.37 ^{+0.52} _{-0.52}	7.89E+36	5.61E+35
5889	58776.847057767	563.8 ^{+0.1} _{-0.1}	2.7 ^{+0.1} _{-0.1}	279 ⁺³⁰ ₋₃₀	1360	45.89 ^{+0.93} _{-0.93}	125.28 ^{+0.07} _{-0.07}	1.34E+38	6.97E+34
5890	58776.847057842	563.8 ^{+0.2} _{-0.2}	6.1 ^{+0.2} _{-0.2}	487 ⁺¹² ₋₁₂	1245	33.46 ^{+0.65} _{-0.65}	204.11 ^{+0.11} _{-0.11}	2.18E+38	1.18E+35
5891	58776.848762876	564.4 ^{+1.0} _{-1.0}	6.1 ^{+1.2} _{-1.2}	99 ⁺⁷ ₋₇	1177	9.96 ^{+0.07} _{-0.07}	60.66 ^{+0.08} _{-0.08}	6.85E+37	9.49E+34
5892	58776.849697529	562.8 ^{+1.2} _{-1.2}	5.5 ^{+2.3} _{-2.3}	45 ⁺⁴ ₋₄	1062	3.61 ^{+0.03} _{-0.03}	19.87 ^{+0.06} _{-0.06}	2.24E+37	6.88E+34
5893	58776.850392155	563.1 ^{+1.3} _{-1.3}	5.8 ^{+1.3} _{-1.3}	132 ⁺⁵¹ ₋₅₁	1168	5.86 ^{+0.04} _{-0.04}	33.94 ^{+0.06} _{-0.06}	3.83E+37	6.53E+34
5894	58776.850851853	562.5 ^{+1.2} _{-1.2}	8.1 ^{+1.8} _{-1.8}	90 ⁺⁵² ₋₅₂	1164	7.58 ^{+0.06} _{-0.06}	61.31 ^{+0.10} _{-0.10}	6.92E+37	1.16E+35
5895	58776.851105979	564.2 ^{+1.2} _{-1.2}	6.5 ^{+0.6} _{-0.6}	146 ⁺²³ ₋₂₃	1359	7.31 ^{+0.57} _{-0.57}	47.22 ^{+0.35} _{-0.35}	5.06E+37	3.72E+35
5896	58776.851409041	561.0 ^{+0.8} _{-0.8}	17.6 ^{+4.0} _{-4.0}	49 ⁺¹² ₋₁₂	1089	3.21 ^{+0.50} _{-0.50}	56.53 ^{+1.98} _{-1.98}	6.05E+37	2.12E+36
5897	58776.851409656	561.0 ^{+0.8} _{-0.8}	9.6 ^{+1.6} _{-1.6}	63 ⁺³ ₋₃	1059	3.43 ^{+0.43} _{-0.43}	32.93 ^{+0.67} _{-0.67}	3.52E+37	7.18E+35
5898	58776.851411437	563.6 ^{+1.3} _{-1.3}	14.0 ^{+1.5} _{-1.5}	355 ⁺¹⁷ ₋₁₇	1241	5.29 ^{+0.39} _{-0.39}	74.01 ^{+0.58} _{-0.58}	7.92E+37	6.18E+35
5899	58776.852551247	563.9 ^{+1.1} _{-1.1}	2.9 ^{+0.1} _{-0.1}	183 ⁺¹⁶ ₋₁₆	1396	38.46 ^{+0.77} _{-0.77}	111.92 ^{+0.05} _{-0.05}	1.20E+38	5.77E+34
5900	58776.853446802	564.0 ^{+1.1} _{-1.1}	3.7 ^{+0.3} _{-0.3}	231 ⁺¹⁹ ₋₁₉	1357	19.30 ^{+2.37} _{-2.37}	71.41 ^{+0.78} _{-0.78}	7.64E+37	8.37E+35
5901	58776.853446854	564.0 ^{+1.1} _{-1.1}	8.4 ^{+2.1} _{-2.1}	98 ⁺⁶¹ ₋₆₁	1119	6.05 ^{+0.81} _{-0.81}	50.64 ^{+1.68} _{-1.68}	5.42E+37	1.79E+36
5902	58776.856553167	562.8 ^{+1.4} _{-1.4}	4.6 ^{+1.4} _{-1.4}	66 ⁺⁴ ₋₄	1362	8.43 ^{+0.06} _{-0.06}	38.98 ^{+0.08} _{-0.08}	4.40E+37	9.49E+34
5903	58776.857097055	563.4 ^{+1.0} _{-1.0}	2.9 ^{+0.4} _{-0.4}	177 ⁺³¹ ₋₃₁	1376	7.43 ^{+0.95} _{-0.95}	21.55 ^{+0.42} _{-0.42}	2.31E+37	4.47E+35
5904	58776.857346167	564.7 ^{+0.1} _{-0.1}	2.0 ^{+0.1} _{-0.1}	161 ⁺¹⁵ ₋₁₅	1412	33.88 ^{+1.19} _{-1.19}	66.40 ^{+0.10} _{-0.10}	7.11E+37	1.02E+35
5905	58776.857346266	564.7 ^{+0.1} _{-0.1}	2.5 ^{+0.1} _{-0.1}	352 ⁺⁶ ₋₆	1186	71.10 ^{+0.52} _{-0.52}	178.28 ^{+0.07} _{-0.07}	2.01E+38	7.57E+34
5906	58776.857474729	563.7 ^{+1.1} _{-1.1}	4.4 ^{+0.8} _{-0.8}	383 ⁺⁸ ₋₈	1197	8.90 ^{+0.07} _{-0.07}	39.28 ^{+0.06} _{-0.06}	4.44E+37	6.24E+34
5907	58776.858108907	562.9 ^{+1.3} _{-1.3}	10.7 ^{+7.1} _{-7.1}	55 ⁺¹⁸ ₋₁₈	1142	3.33 ^{+0.02} _{-0.02}	35.76 ^{+0.17} _{-0.17}	4.04E+37	1.92E+35
5908	58776.858453801	562.9 ^{+1.3} _{-1.3}	7.3 ^{+1.6} _{-1.6}	87 ⁺⁴ ₋₄	1397	9.87 ^{+0.07} _{-0.07}	71.69 ^{+0.12} _{-0.12}	8.10E+37	1.32E+35
5909	58776.859427480	563.6 ^{+1.3} _{-1.3}	4.4 ^{+1.6} _{-1.6}	29 ⁺⁴ ₋₄	1453	4.02 ^{+0.03} _{-0.03}	17.87 ^{+0.05} _{-0.05}	2.02E+37	5.35E+34
5910	58776.859551804	562.9 ^{+1.0} _{-1.0}	5.5 ^{+1.4} _{-1.4}	191 ⁺¹⁸ ₋₁₈	1141	6.50 ^{+0.05} _{-0.05}	35.70 ^{+0.07} _{-0.07}	4.03E+37	7.43E+34
5911	58776.861376516	564.1 ^{+0.5} _{-0.5}	2.8 ^{+1.5} _{-1.5}	53 ⁺⁴ ₋₄	1122	3.90 ^{+0.03} _{-0.03}	10.83 ^{+0.04} _{-0.04}	1.22E+37	4.76E+34
5912	58776.863345564	564.1 ^{+1.1} _{-1.1}	10.0 ^{+2.4} _{-2.4}	80 ⁺⁴ ₋₄	1192	6.65 ^{+0.05} _{-0.05}	66.64 ^{+0.12} _{-0.12}	7.53E+37	1.38E+35
5913	58776.864126900	564.4 ^{+1.0} _{-1.0}	5.1 ^{+1.2} _{-1.2}	54 ⁺⁸ ₋₈	1086	6.49 ^{+0.05} _{-0.05}	33.05 ^{+0.06} _{-0.06}	3.73E+37	6.45E+34
5914	58776.865070186	564.1 ^{+0.6} _{-0.6}	5.4 ^{+0.4} _{-0.4}	247 ⁺¹⁵ ₋₁₅	1136	11.71 ^{+0.67} _{-0.67}	63.00 ^{+0.25} _{-0.25}	6.74E+37	2.65E+35
5915	58776.865285422	564.2 ^{+1.0} _{-1.0}	7.7 ^{+1.0} _{-1.0}	135 ⁺¹⁶ ₋₁₆	1229	6.02 ^{+0.65} _{-0.65}	46.17 ^{+0.66} _{-0.66}	4.94E+37	7.10E+35
5916	58776.866306231	565.5 ^{+1.0} _{-1.0}	3.5 ^{+1.2} _{-1.2}	248 ⁺¹⁵ ₋₁₅	1266	7.01 ^{+3.48} _{-3.48}	24.82 ^{+4.11} _{-4.11}	2.66E+37	4.40E+36
5917	58776.866306278	565.5 ^{+1.0} _{-1.0}	7.7 ^{+1.4} _{-1.4}	280 ⁺¹³ ₋₁₃	1233	11.63 ^{+1.20} _{-1.20}	89.20 ^{+1.67} _{-1.67}	9.55E+37	1.79E+36
5918	58776.867873856	563.9 ^{+1.2} _{-1.2}	2.9 ^{+0.6} _{-0.6}	226 ⁺⁷ ₋₇	1279	7.91 ^{+0.06} _{-0.06}	22.62 ^{+0.04} _{-0.04}	2.56E+37	4.36E+34
5919	58776.869050532	563.3 ^{+1.2} _{-1.2}	6.0 ^{+1.8} _{-1.8}	56 ⁺⁷ ₋₇	1049	7.16 ^{+0.06} _{-0.06}	43.16 ^{+0.10} _{-0.10}	4.87E+37	1.10E+35
5920	58776.869177407	564.1 ^{+0.7} _{-0.7}	2.4 ^{+0.9} _{-0.9}	233 ⁺¹²⁶ ₋₁₂₆	1250	5.21 ^{+0.04} _{-0.04}	12.56 ^{+0.04} _{-0.04}	1.42E+37	4.11E+34

Supplementary Table 2: Properties of 5927 bursts of FRB 20121102A measured with FAST from Aug. 2019 to Oct. 2019.

Burst	MJD ^{a)}	DM ^{b)}	$W_{eff}^{c)}$	Bandwidth ^{d)}	Cntrl freq.	Peak flux	Fluence	Energy ^{e)} _{1.25GHz}	Err.Energy ^{f)} _{1.25GHz}
ID	(inf.)	(pc cm ⁻³)	(ms)	(MHz)	(MHz)	(mJy)	(mJy ms)	(erg)	(erg)
5921	58776.869328578	563.1 ^{+1.4} _{-1.4}	7.6 ^{+2.1} _{-2.1}	65 ⁺³⁹ ₋₃₉	1111	5.81 ^{+0.04} _{-0.04}	43.90 ^{+0.09} _{-0.09}	4.96E+37	1.06E+35
5922	58776.870118778	564.3 ^{+0.8} _{-0.8}	7.0 ^{+0.5} _{-0.5}	378 ⁺⁷ ₋₇	1199	10.75 ^{+0.62} _{-0.62}	75.25 ^{+0.31} _{-0.31}	8.06E+37	3.32E+35
5923	58776.870599613	563.5 ^{+1.4} _{-1.4}	3.3 ^{+1.6} _{-1.6}	80 ⁺¹⁹ ₋₁₉	1441	3.73 ^{+0.03} _{-0.03}	12.15 ^{+0.05} _{-0.05}	1.37E+37	5.33E+34
5924	58776.872681670	564.6 ^{+1.2} _{-1.2}	3.9 ^{+0.7} _{-0.7}	168 ⁺³⁵ ₋₃₅	1308	11.58 ^{+0.09} _{-0.09}	44.68 ^{+0.06} _{-0.06}	5.05E+37	6.81E+34
5925	58776.873012298	564.6 ^{+0.9} _{-0.9}	2.2 ^{+0.3} _{-0.3}	52 ⁺¹² ₋₁₂	1396	9.33 ^{+1.16} _{-1.16}	20.71 ^{+0.37} _{-0.37}	2.22E+37	3.97E+35
5926	58776.873652143	564.0 ^{+1.3} _{-1.3}	8.0 ^{+1.2} _{-1.2}	76 ⁺²⁰ ₋₂₀	1236	9.32 ^{+0.07} _{-0.07}	74.40 ^{+0.68} _{-0.68}	7.96E+37	7.24E+35
5927	58776.873917995	564.9 ^{+0.1} _{-0.1}	2.6 ^{+0.4} _{-0.4}	401 ⁺¹⁴ ₋₁₄	1287	46.05 ^{+0.37} _{-0.37}	119.04 ^{+1.08} _{-1.08}	1.27E+38	1.16E+36

a) The burst peak's arrival MJD modified to infinity frequency.

b) DM is obtained using *DM-Power* algorithm.

c) The burst width W_{eff} is defined as the effective width of a rectangular burst that has the same area as the original burst, where the height of the rectangle is equal to the maximum value of the baseline-corrected spectrum.

d) Bandwidth is calculated separately by CDF fitting algorithm.

e) Full bandwidth (with the center frequency = 1.25 GHz) was involved when the energy of bursts is calculated.

f) The error of the isotropic equivalent energy.