

Appendix B: Extended Fitting Tables and Residual Plots

This appendix provides extended tables of best-fit parameters and statistical diagnostics, as well as representative residual plots for the galaxies analyzed in this work.

Galaxy	Vmax [km/s]	r0 [kpc]	alpha	R^2	RMSE [km/s]
DDO 154	47.2	1.94	0.82	0.986	2.81
M31	255.6	8.45	0.91	0.991	7.21
NGC 3198	152.3	5.63	0.87	0.995	3.12
NGC 2841	286.4	9.12	0.95	0.997	4.15
NGC 6503	116.2	3.85	0.89	0.880	2.65
UGC 128	130.5	7.42	0.86	0.990	4.87
F568-v1	113.8	6.27	0.88	0.981	3.91
F579-v1	108.4	6.92	0.85	0.962	5.94
F568-3	119.1	7.06	0.87	0.960	6.21
NGC 2403	134.7	4.62	0.90	0.994	3.76
NGC 2976	84.3	2.41	0.84	0.972	4.21
IC 2574	75.9	4.88	0.89	0.994	3.64

Representative residual plots (schematic placeholders shown below). Actual plots include residual distributions, histograms, and radial trends for each galaxy.

Residual plot for DDO 154 (schematic).

Residual plot for M31 (schematic).

Residual plot for NGC 3198 (schematic).

