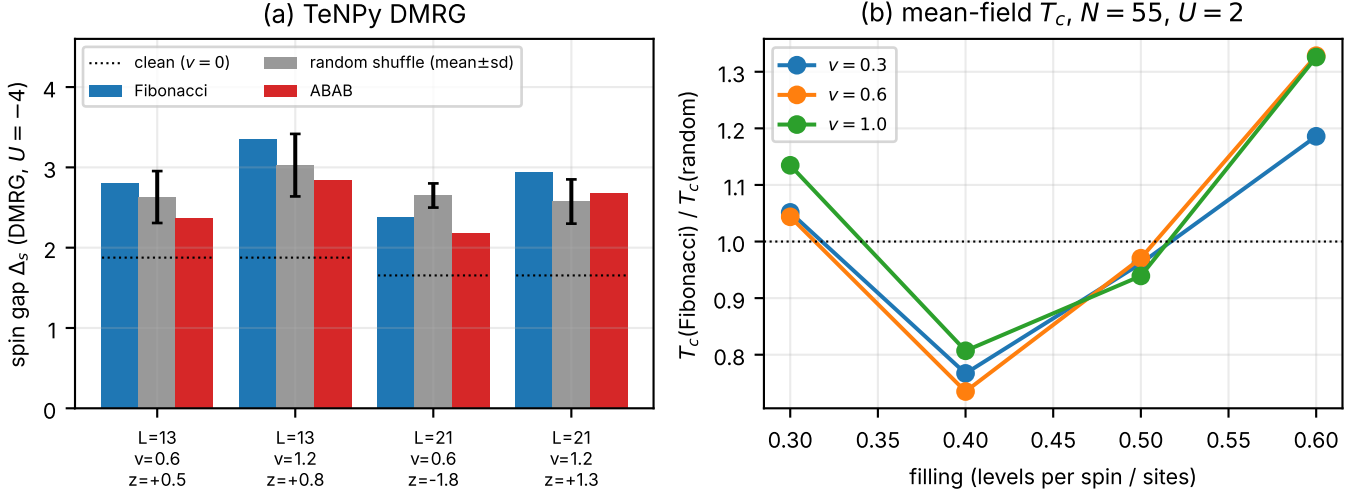

(a) TeNPy DMRG
clean (v = 0)
random shuffle (mean±sd)
Fibonacci
ABAB
spin gap Δs (DMRG, U = −4)
0
1
2
3
4
L=13
v=0.6
z=+0.5
L=13
v=1.2
z=+0.8
L=21
v=0.6
z=-1.8
L=21
v=1.2
z=+1.3
(b) mean-field Tc, N = 55, U = 2
v = 0.3
v = 0.6
v = 1.0
Tc(Fibonacci) / Tc(random)
0.8
0.9
1.0
1.1
1.2
1.3
0.30
0.35
0.40
0.45
0.50
0.55
0.60
filling (levels per spin / sites)