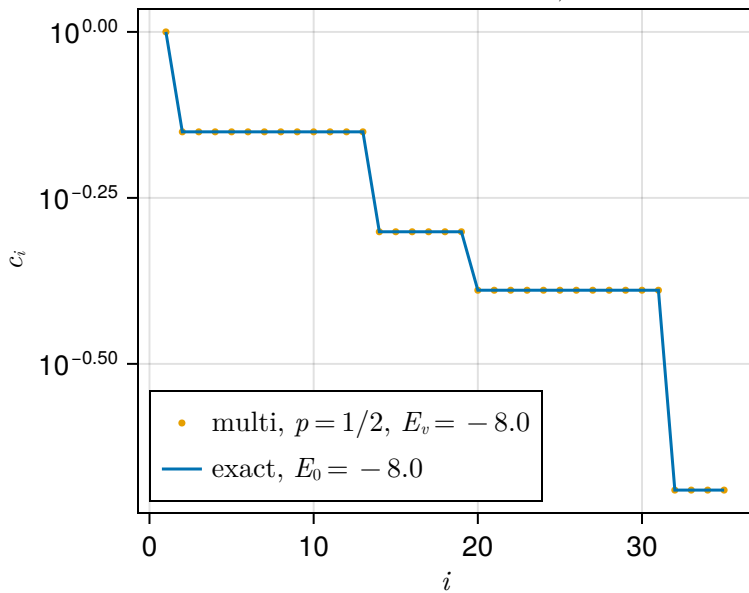
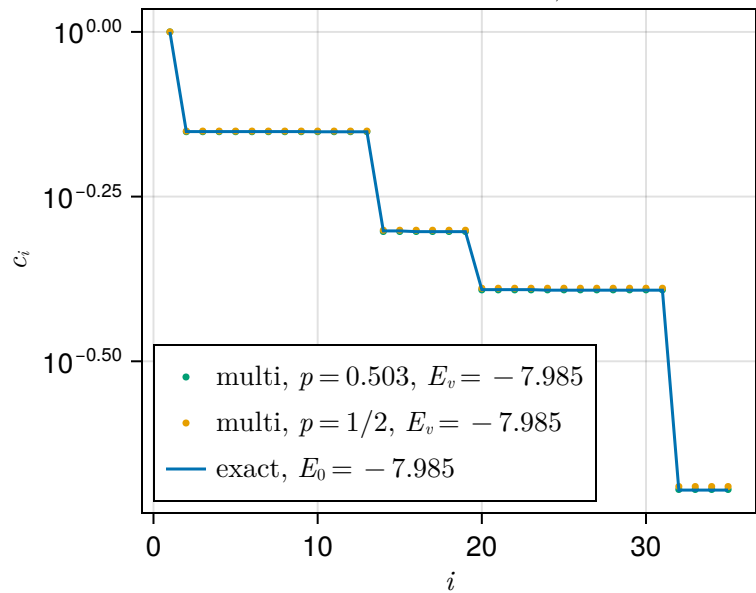
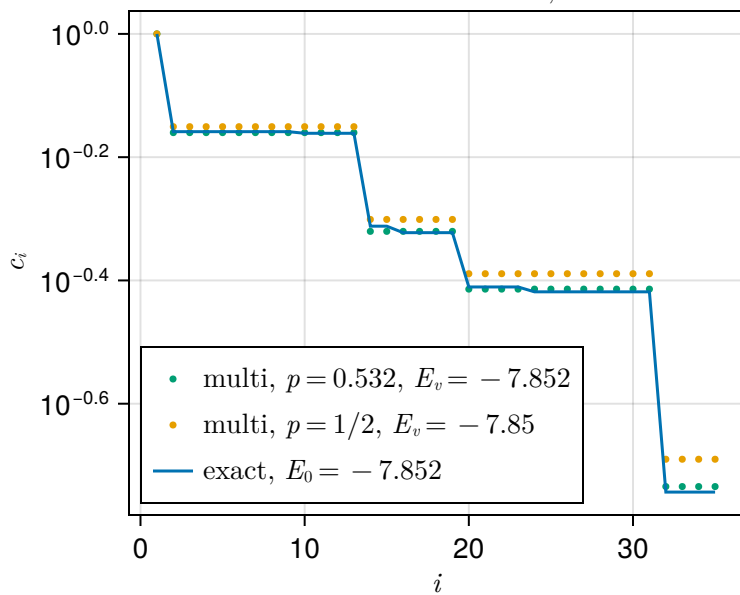
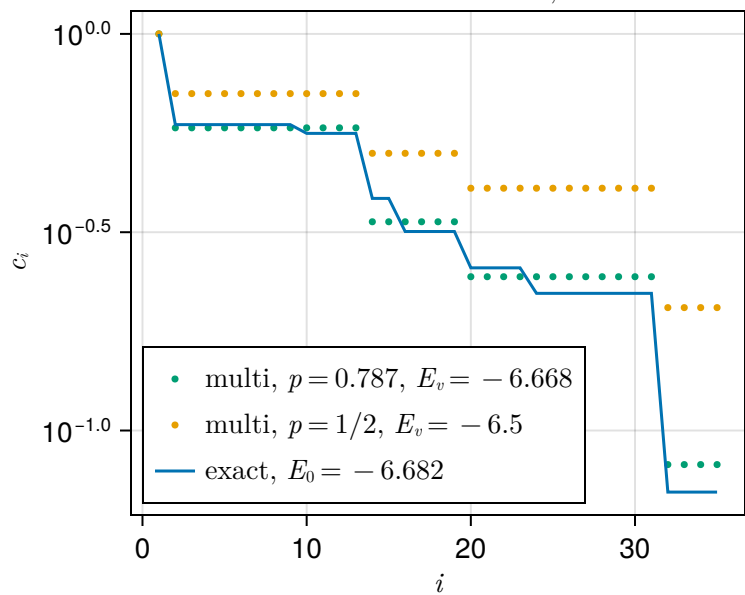
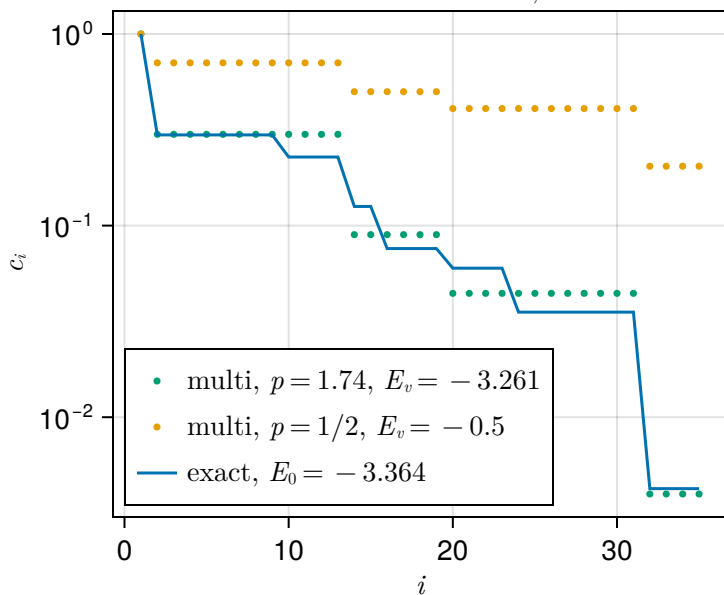


Bose-Hubbard  $N = M = 4, u = 0.0$ Bose-Hubbard  $N = M = 4, u = 0.01$ Bose-Hubbard  $N = M = 4, u = 0.1$ Bose-Hubbard  $N = M = 4, u = 1.0$ Bose-Hubbard  $N = M = 4, u = 5.0$ Bose-Hubbard  $N = M = 4, u = 10.0$ 