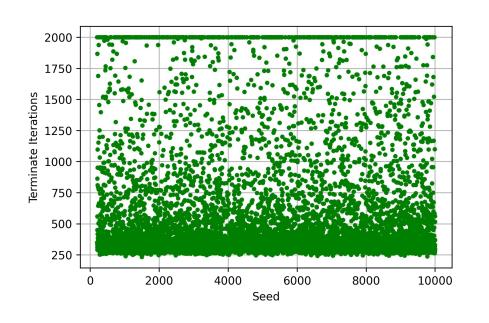
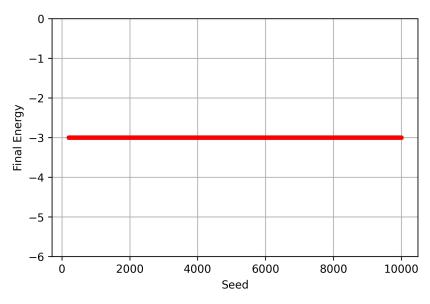
Progress Summary

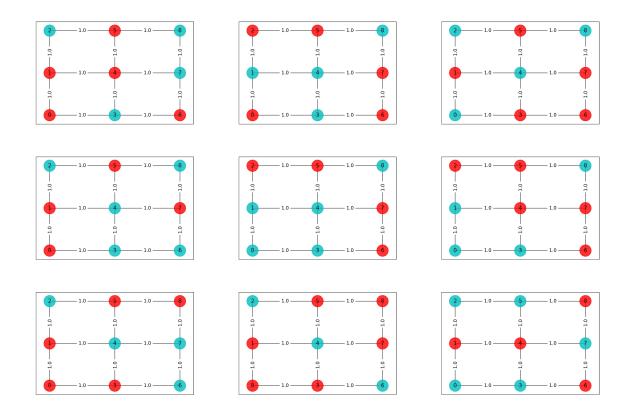
12-02-2022

3x3 Ising Model With P.B.C: SLSQP(maxiter = 2000)

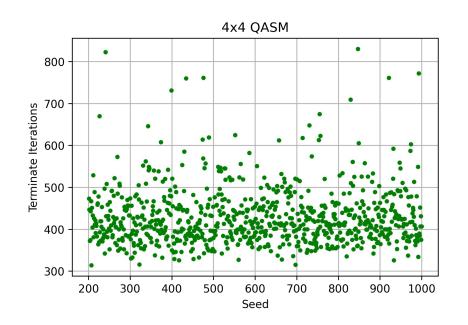


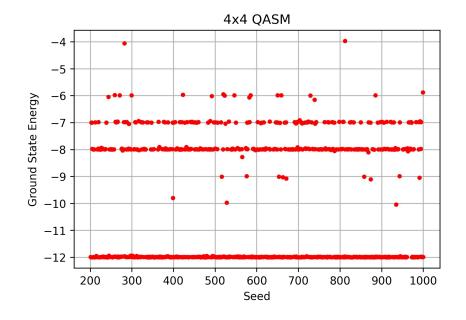


3x3 Ising Model With P.B.C: Configurations



4x4 Ising Model: Qasm+COBYLA(maxiter = 2000)





Typical Configs converged to

COBYLA

(maxiter = 2000)

COBYLA

(maxiter = 2000)

314

381

207

212

Seed	Optimizer	Terminate Iterations	Converged Energy	Time (s)	Solution	Visualization
201	COBYLA (maxiter = 2000)	473	-11.9873046875	33.2164371013641	0101101001011010	2 - 10 - 10 - 11 - 10 - 10 - 10 - 10 - 1
						1.0 1.0 1.0 1.0 0

-7.9931640625

-6.990234375

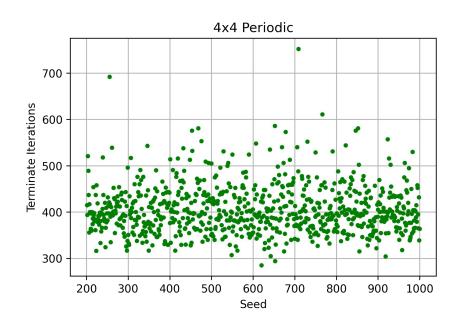
15.3651530742645

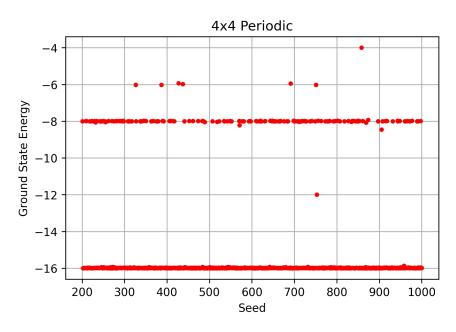
26.0232203006744

0101101010010110

1101001010100101

4x4 Ising Model With P.B.C





Typical Configs converged to

415

394

364

COBYLA

(maxiter = 2000)

COBYLA

(maxiter = 2000)

COBYLA

(maxiter = 2000)

201

202

210

Seed	Optimizer	Terminate Iterations	Converged Energy	Time (s)	Solution	Visualization
						10 10 10 10 15

-7.99609375

-15.99609375

-7.98828125

33.7266340255737

17.923800945282

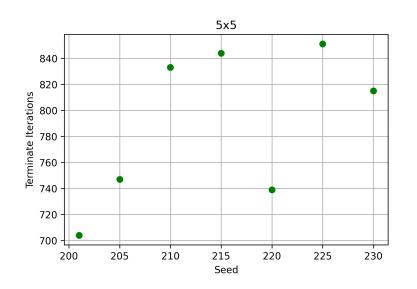
25.2375421524048

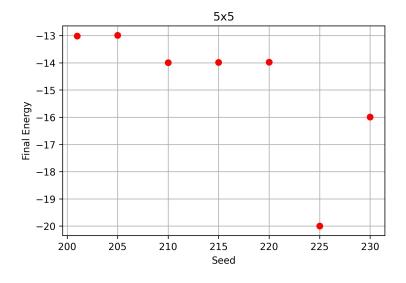
1100001111000011

1010010110100101

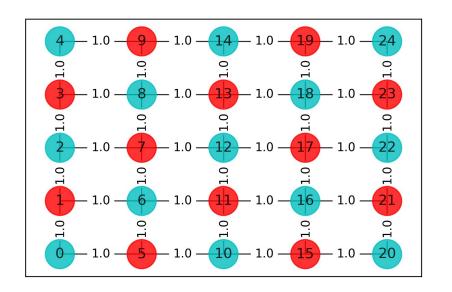
0101010110101010

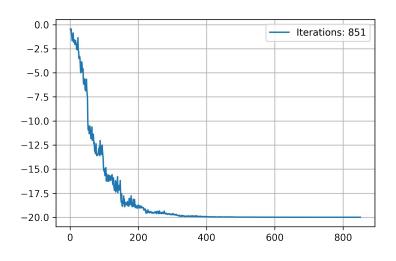
5x5 on IBM Quantum Lab: "Simulator_statevector" from ibmq-provider



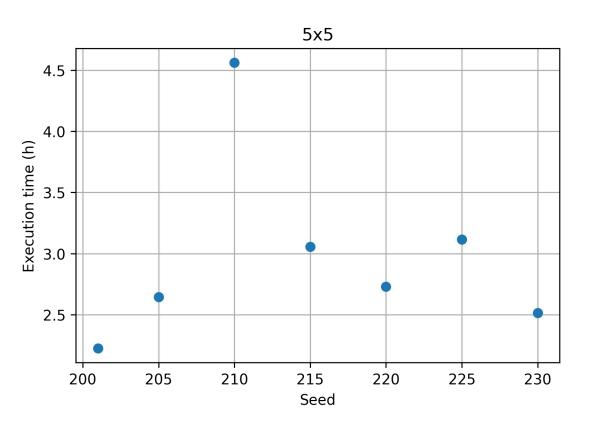


Only 1 Successful Trial in 7: seed = 225





Actual Run Time: Hours for 1 seed



Summary

- Greater size, more metastable states
- Results of trials with P.B.C are less noisy