

# ADAPT/VQE Benchmark Summary

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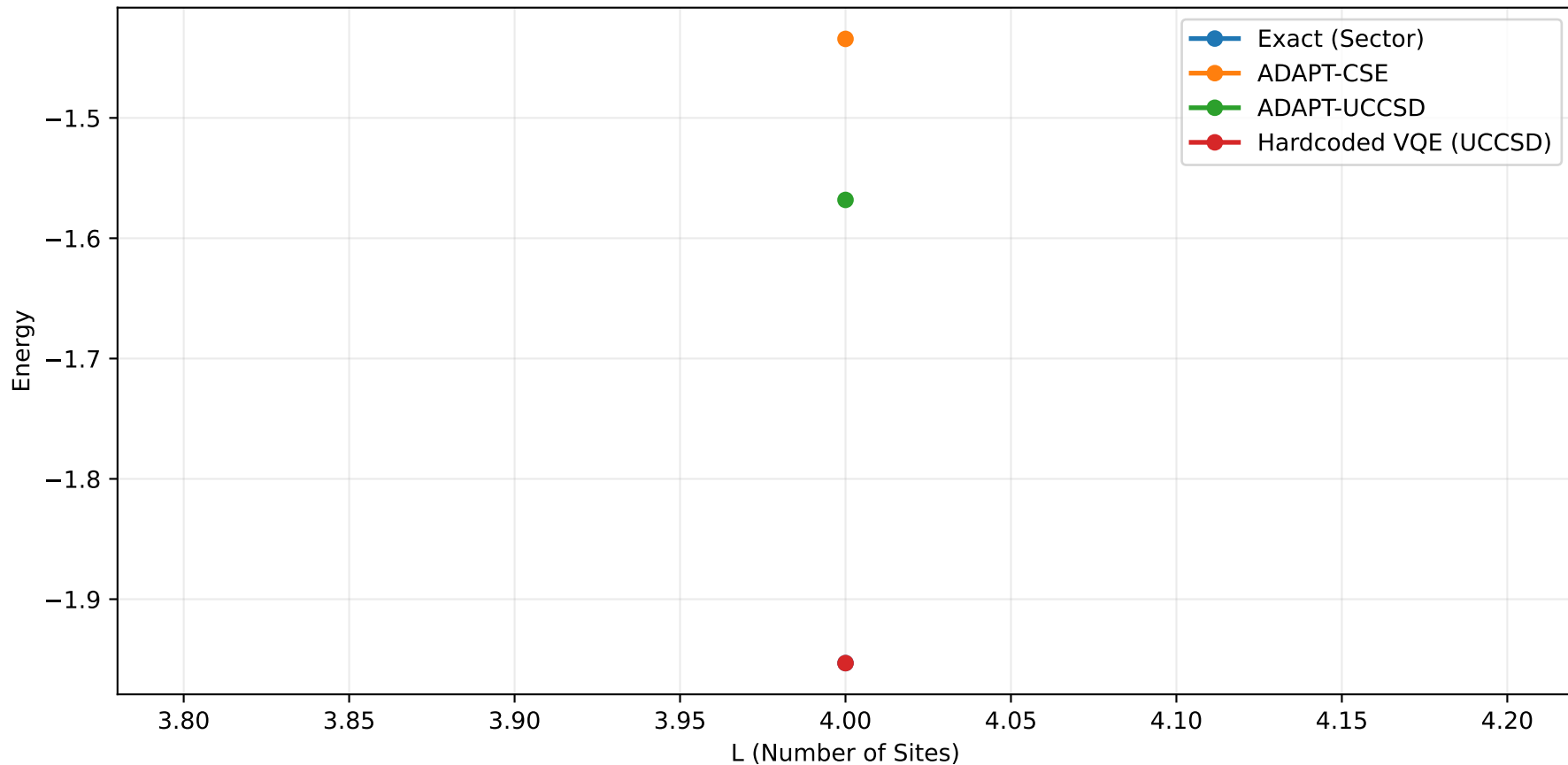
## Settings:

```
sites=[4] t=1.0 u=4.0 dv=0.5 boundary=open ordering=blocked odd_policy=min_sz
ADAPT(inner_optimizer=lbgfs, inner_steps=120, max_depth=23, max_time_s=12000.0, allow_repeats=True)
VQE(reps=2, restarts=1, maxiter=1000, seed=7)
include_qiskit_vqe=False
```

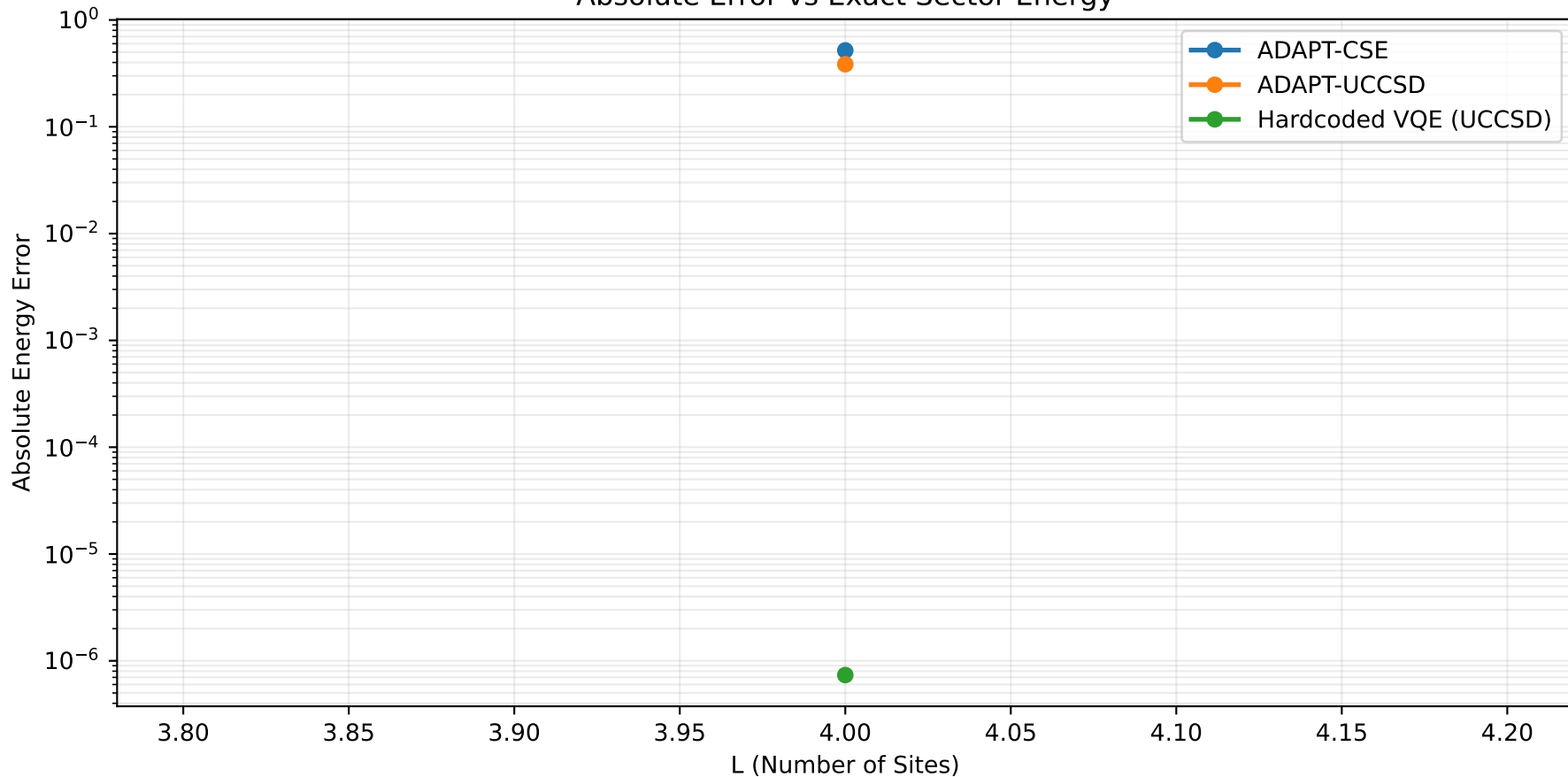
L=4 (n\_up=2, n\_down=2)

Exact (Sector)	E=-1.953145308685  dE =0.000e+00 t=0.00s
ADAPT-CSE	E=-1.434321254381  dE =5.188e-01 t=291.16s
ADAPT-UCCSD	E=-1.568146227445  dE =3.850e-01 t=14122.01s
Hardcoded VQE (UCCSD)	E=-1.953144573174  dE =7.355e-07 t=214.16s

Energy Comparison by System Size



Absolute Error vs Exact Sector Energy



Runtime by Method

