

# ADAPT/VQE Benchmark Summary

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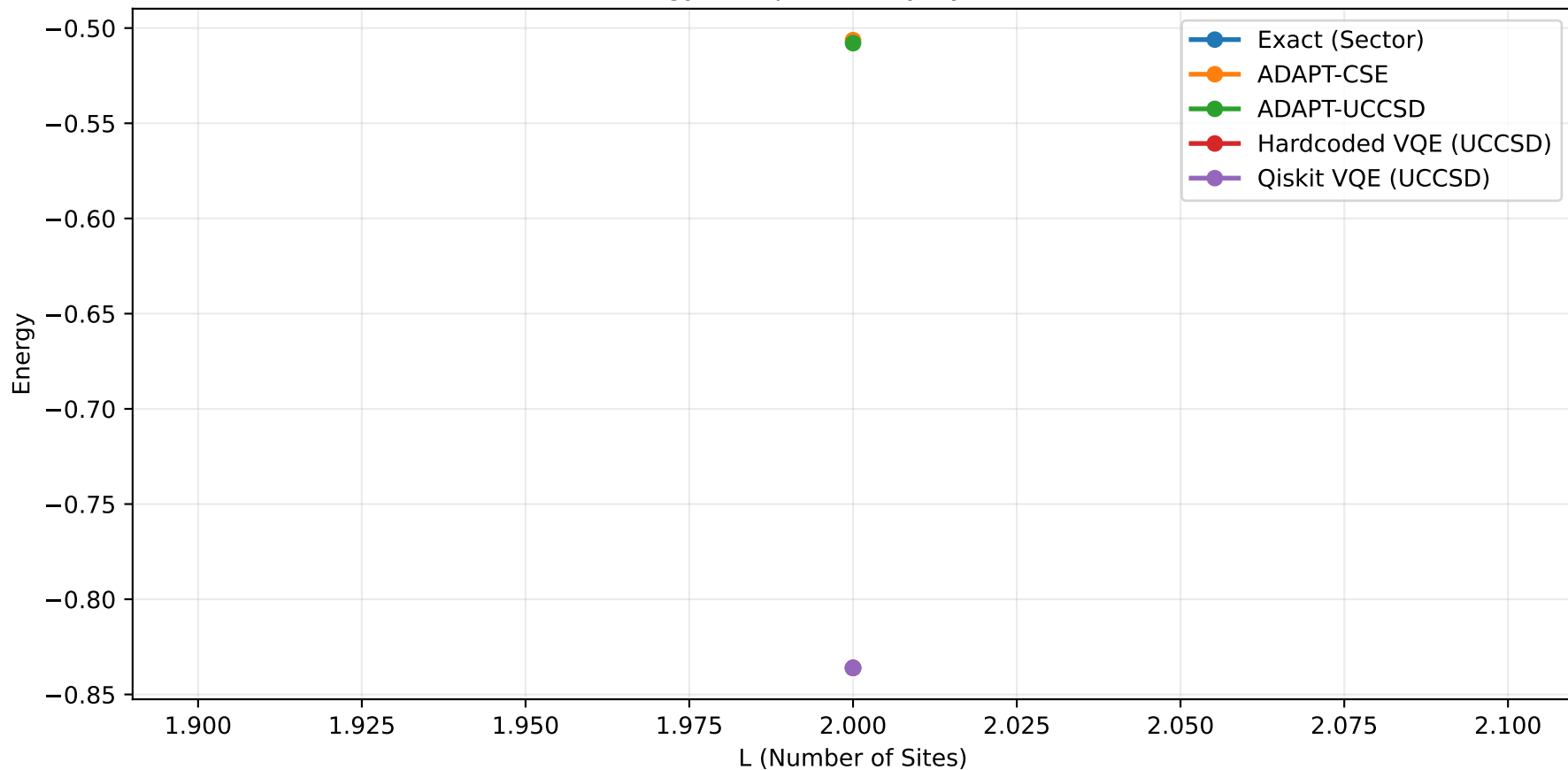
## Settings:

sites=[2] t=1.0 u=4.0 dv=0.5 boundary=open ordering=blocked odd\_policy=min\_sz  
ADAPT(inner\_optimizer=lbfgs, inner\_steps=600, max\_depth=12, max\_time\_s=180.0)  
VQE(reps=2, restarts=3, maxiter=600, seed=7)

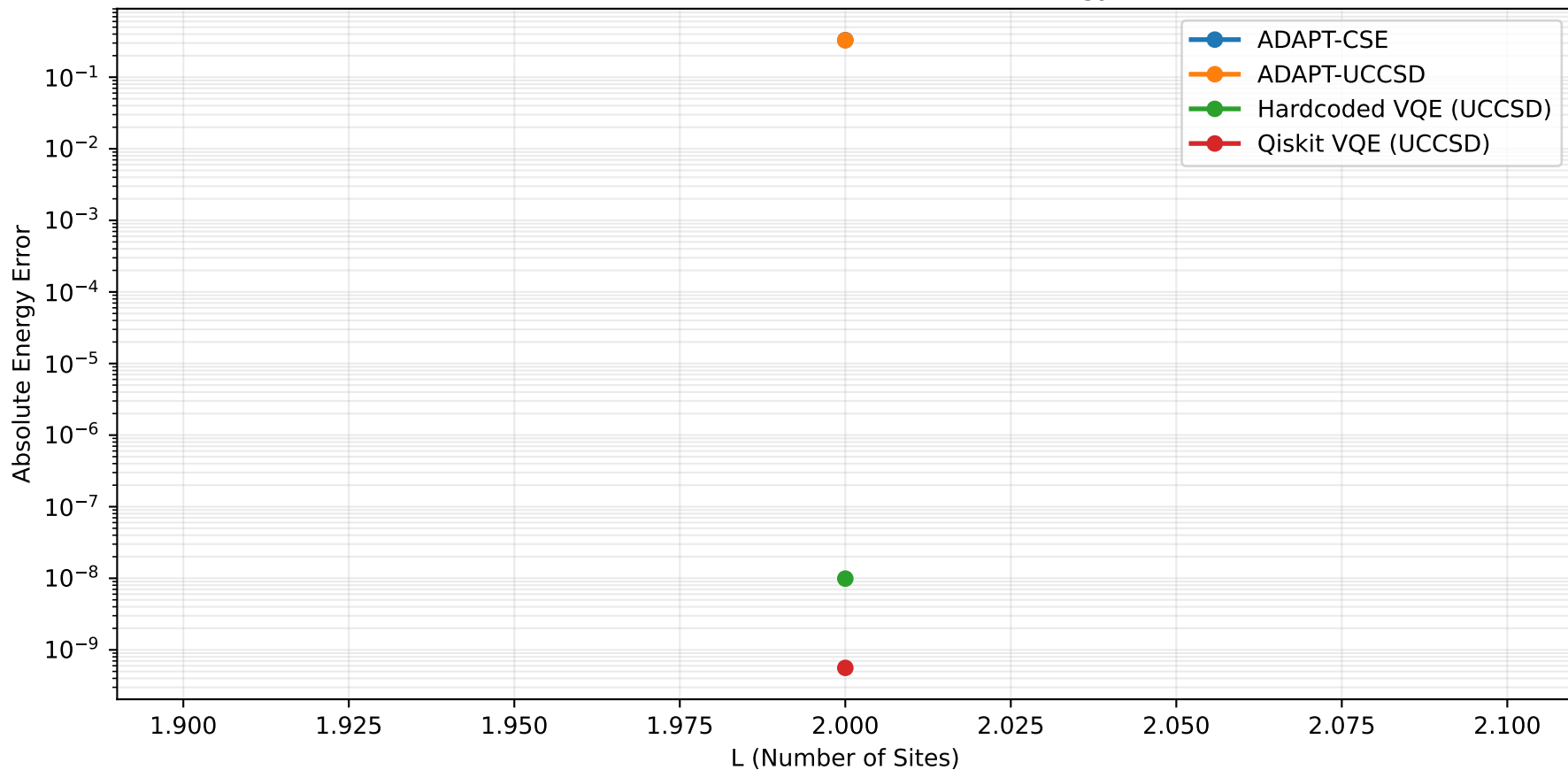
L=2 (n\_up=1, n\_down=1)

Exact (Sector)	E=-0.836057118155  dE =0.000e+00 t=0.00s
ADAPT-CSE	E=-0.506312970694  dE =3.297e-01 t=14.81s
ADAPT-UCCSD	E=-0.507936507935  dE =3.281e-01 t=27.80s
Hardcoded VQE (UCCSD)	E=-0.836057108255  dE =9.900e-09 t=0.18s
Qiskit VQE (UCCSD)	E=-0.836057117595  dE =5.600e-10 t=10.37s

Energy Comparison by System Size



Absolute Error vs Exact Sector Energy



Runtime by Method

