

HVA vs UCCSD vs Qiskit-UCCSD Summary

generated_utc: 2026-02-26T17:54:00.461878+00:00

all_pass: True

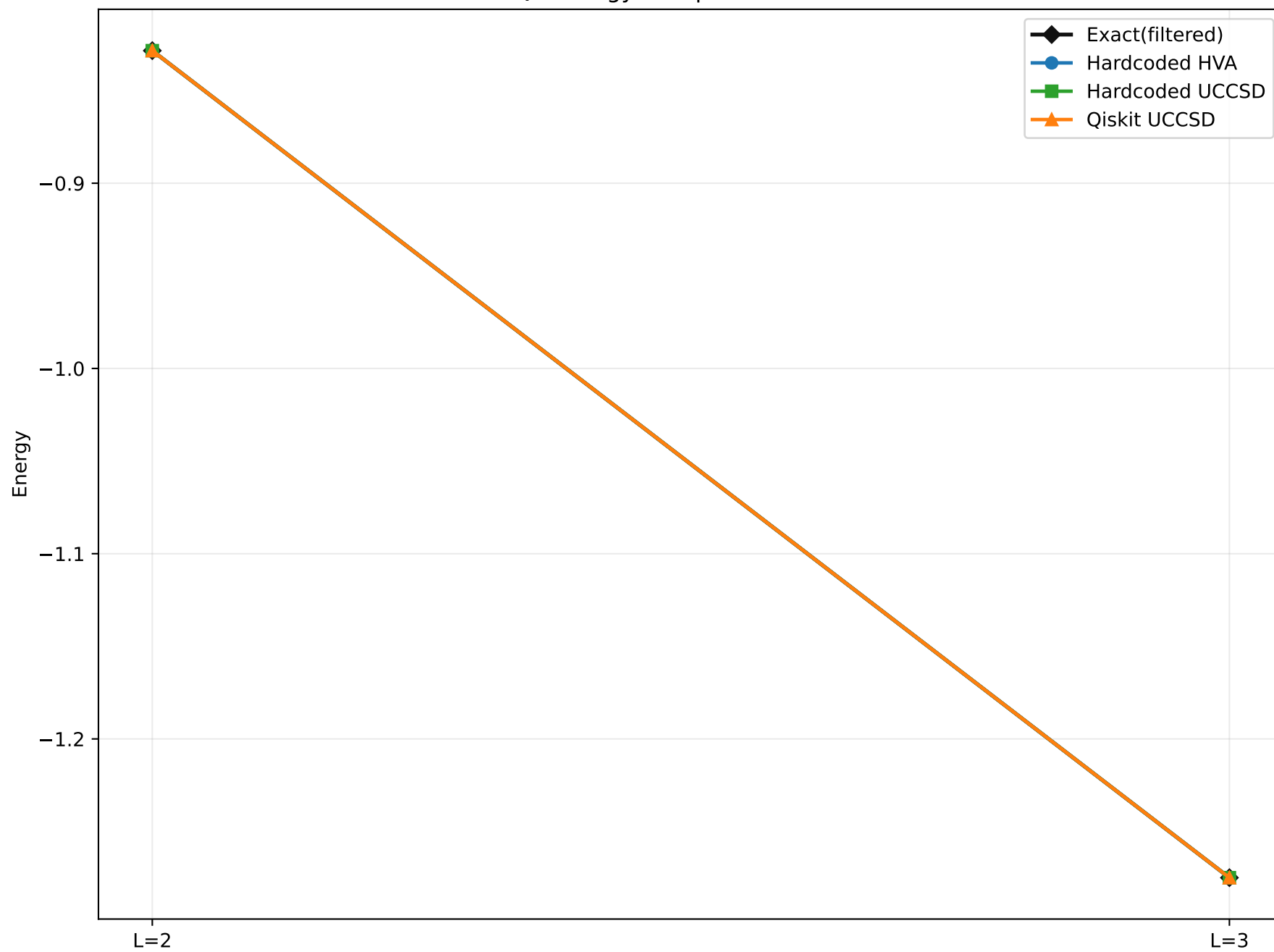
l_values: [2, 3]

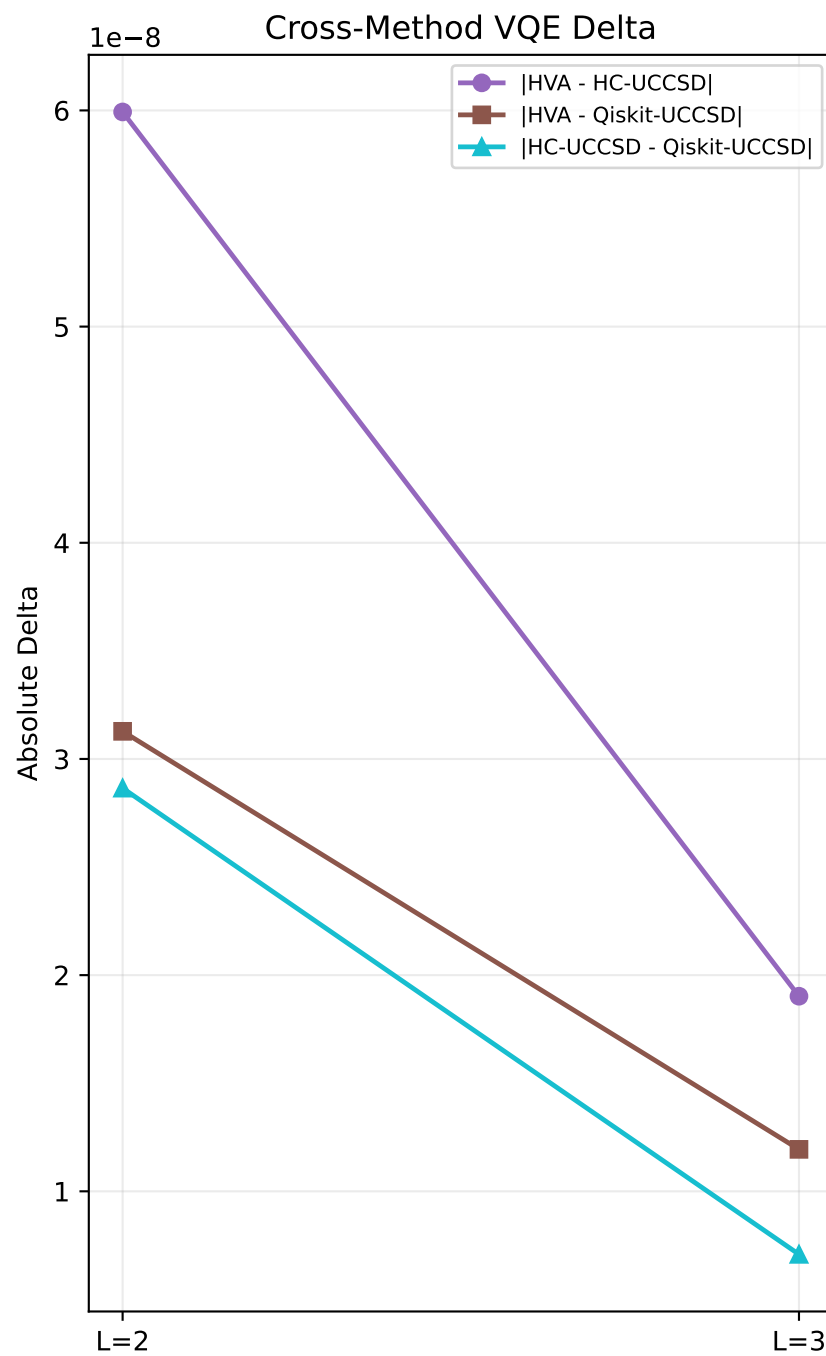
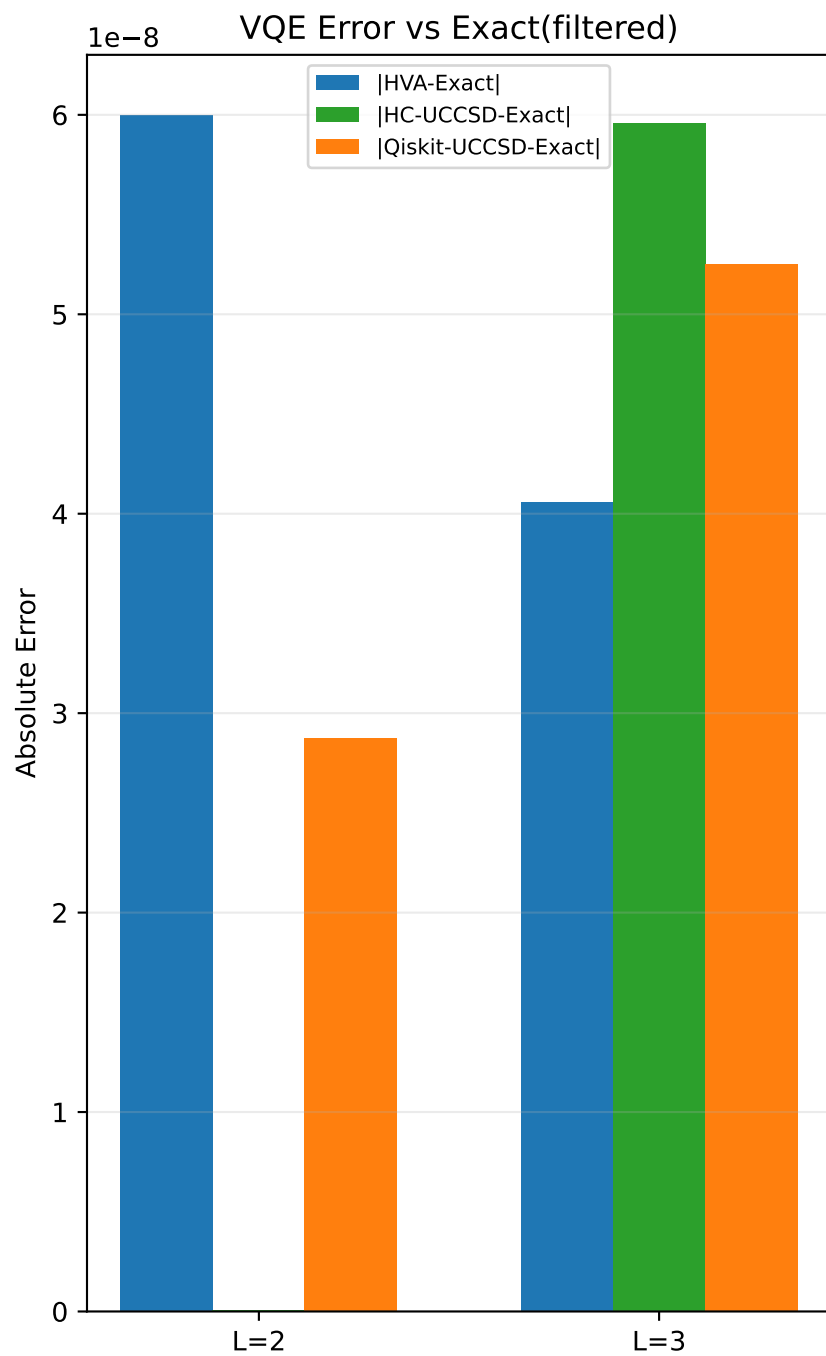
Per-L results:

L=2 pass=True metrics=artifacts/hva_uccsd_heavy/hva_uccsd_qiskit_L2_metrics.json

L=3 pass=True metrics=artifacts/hva_uccsd_heavy/hva_uccsd_qiskit_L3_metrics.json

VQE Energy Comparison Across L





Bundle L=2 HVA vs UCCSD vs Qiskit-UCCSD

exact_filtered_energy=-0.8284271247461902

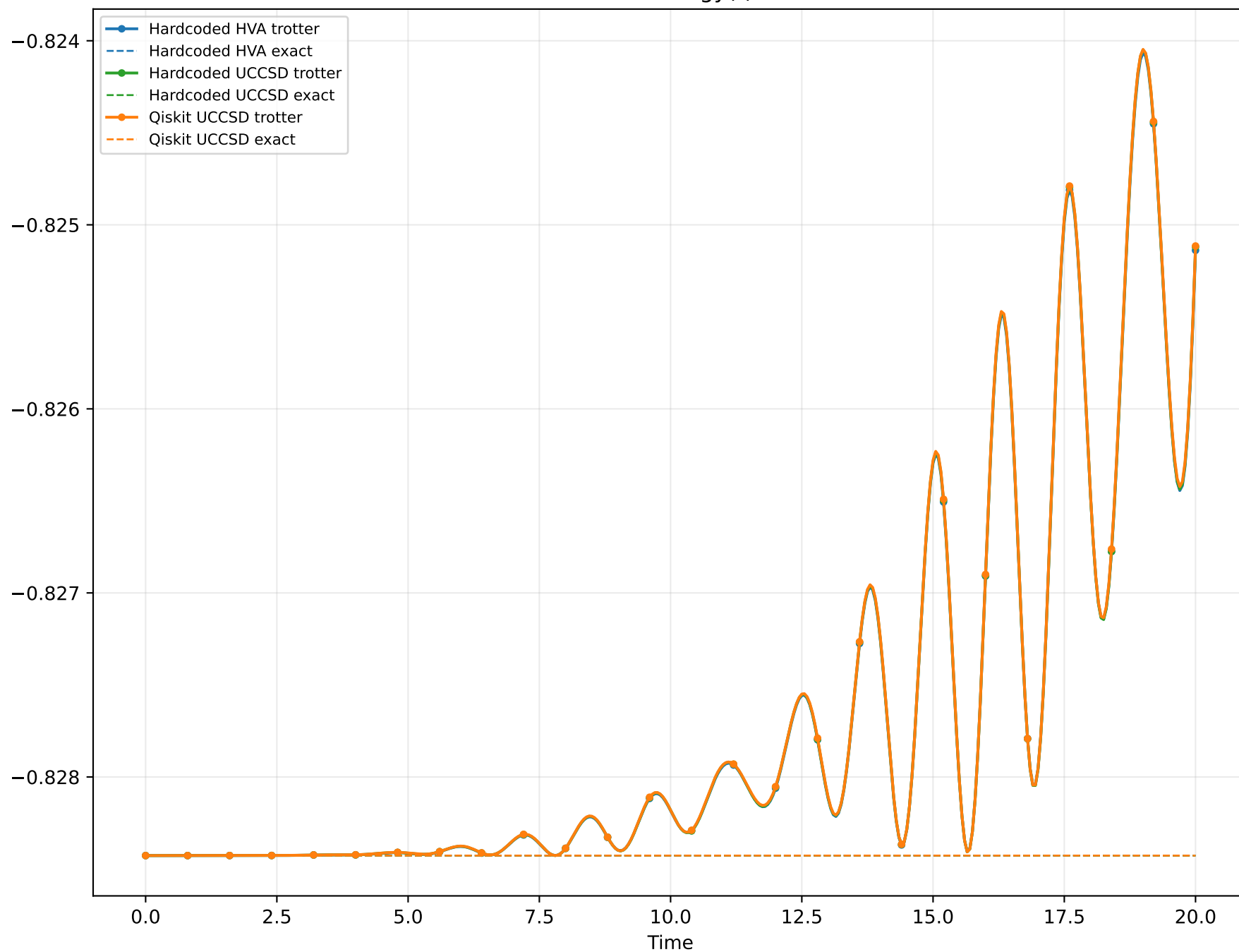
hva_vqe_energy=-0.8284270647377743

hardcoded_uccsd_vqe_energy=-0.8284271246665298

qiskit_uccsd_vqe_energy=-0.8284270960159438

all_pass=True

L=2: Energy(t)



Bundle L=3 HVA vs UCCSD vs Qiskit-UCCSD

exact_filtered_energy=-1.2749172176353751

hva_vqe_energy=-1.2749171770448173

hardcoded_uccsd_vqe_energy=-1.2749171580200909

qiskit_uccsd_vqe_energy=-1.2749171651039366

all_pass=True

L=3: Energy(t)

