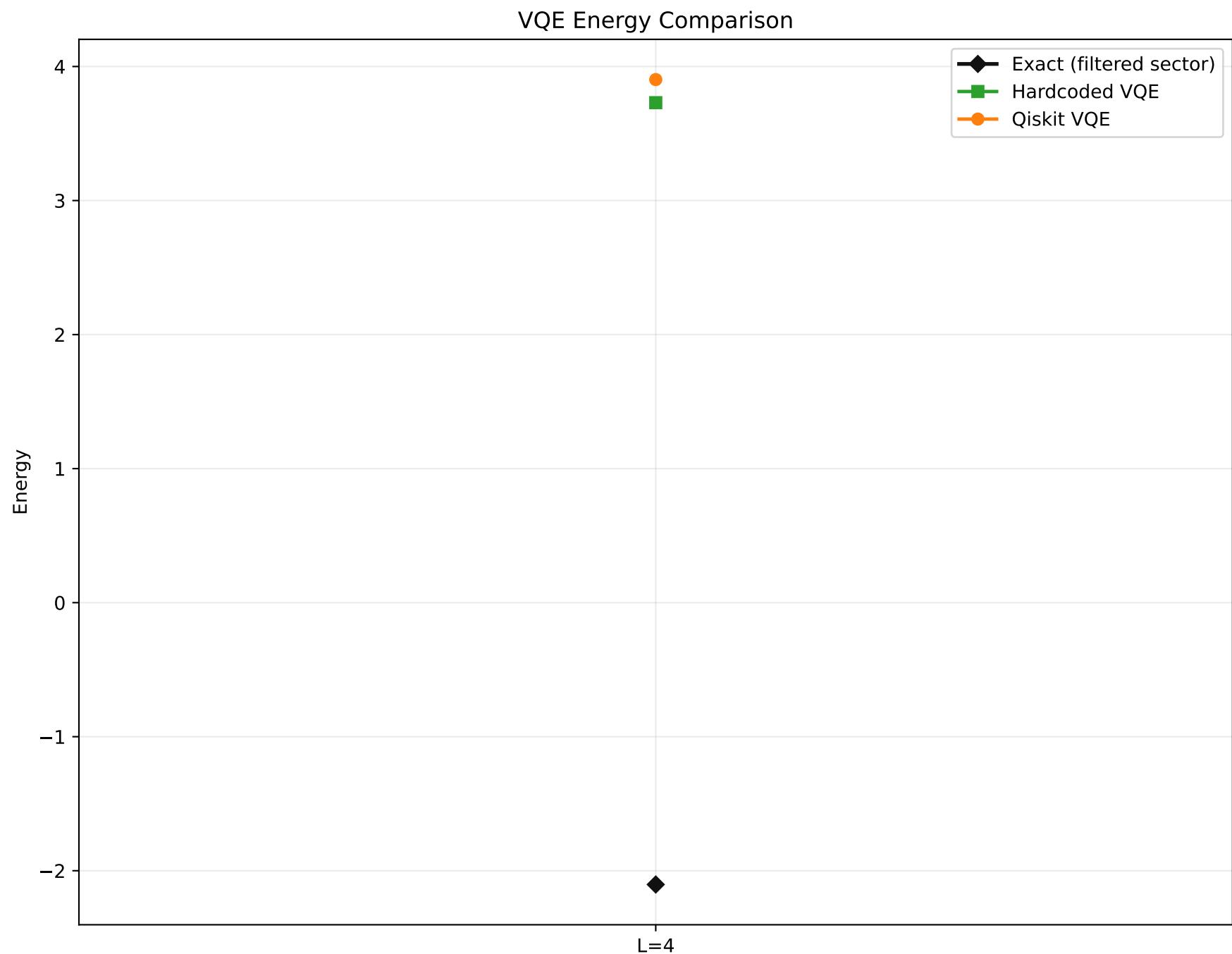
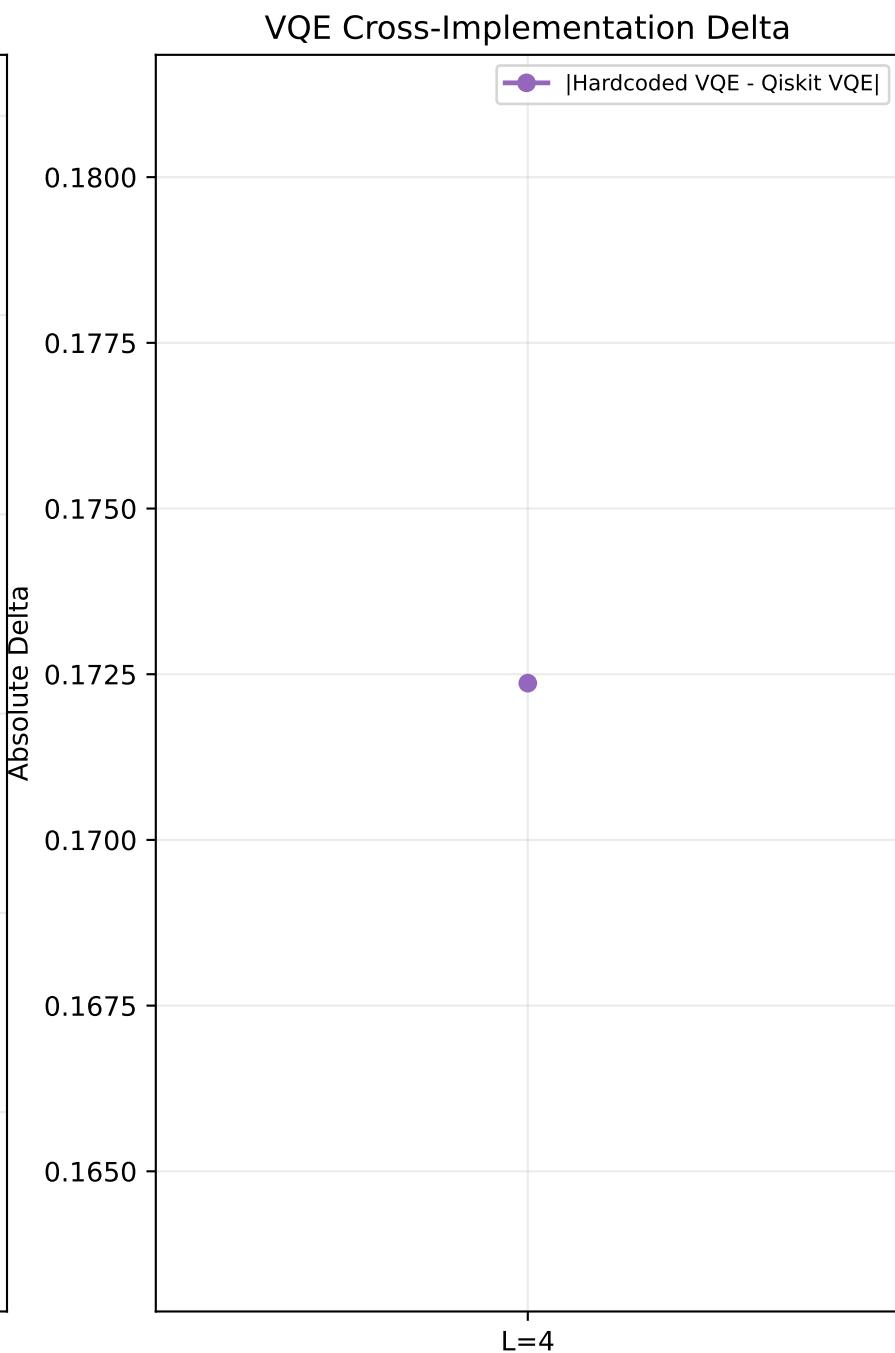
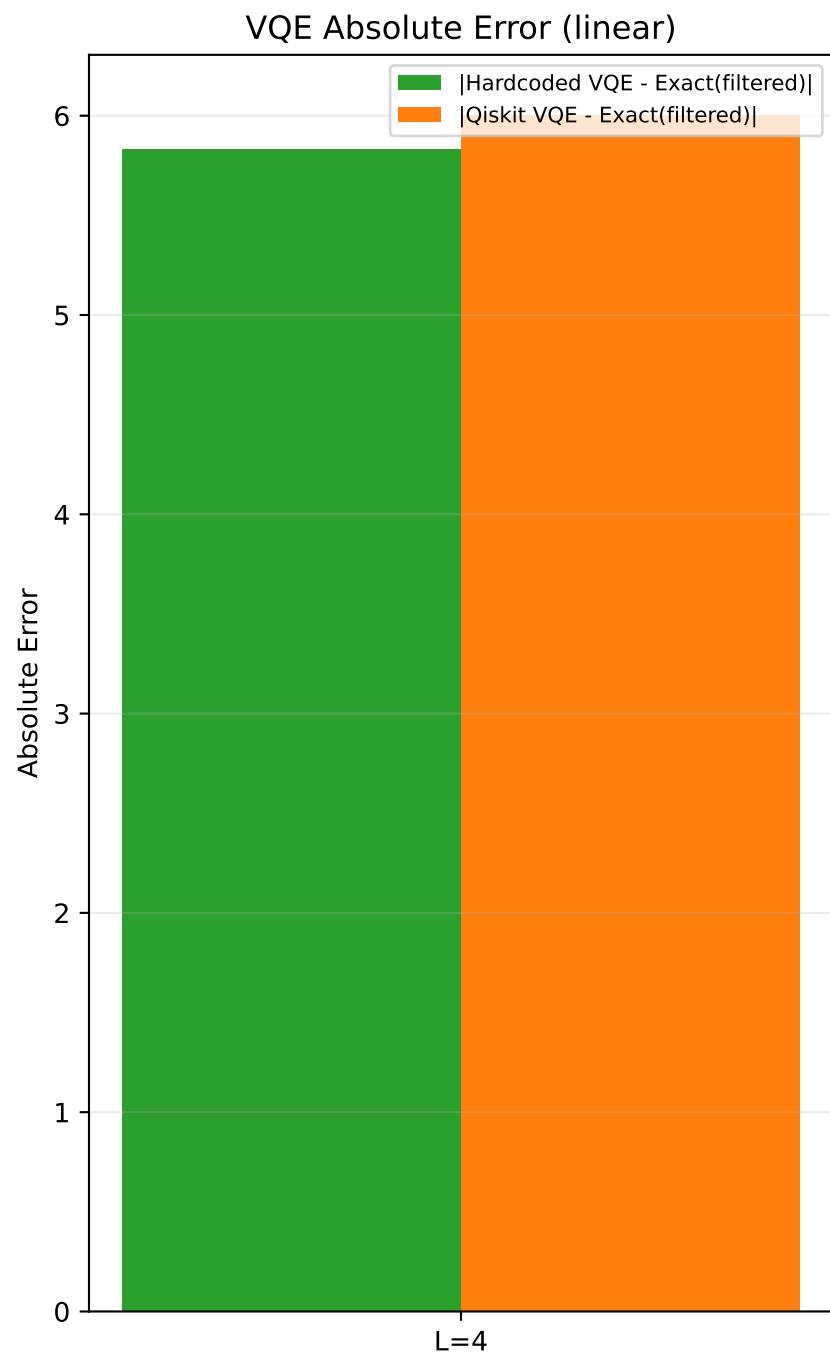
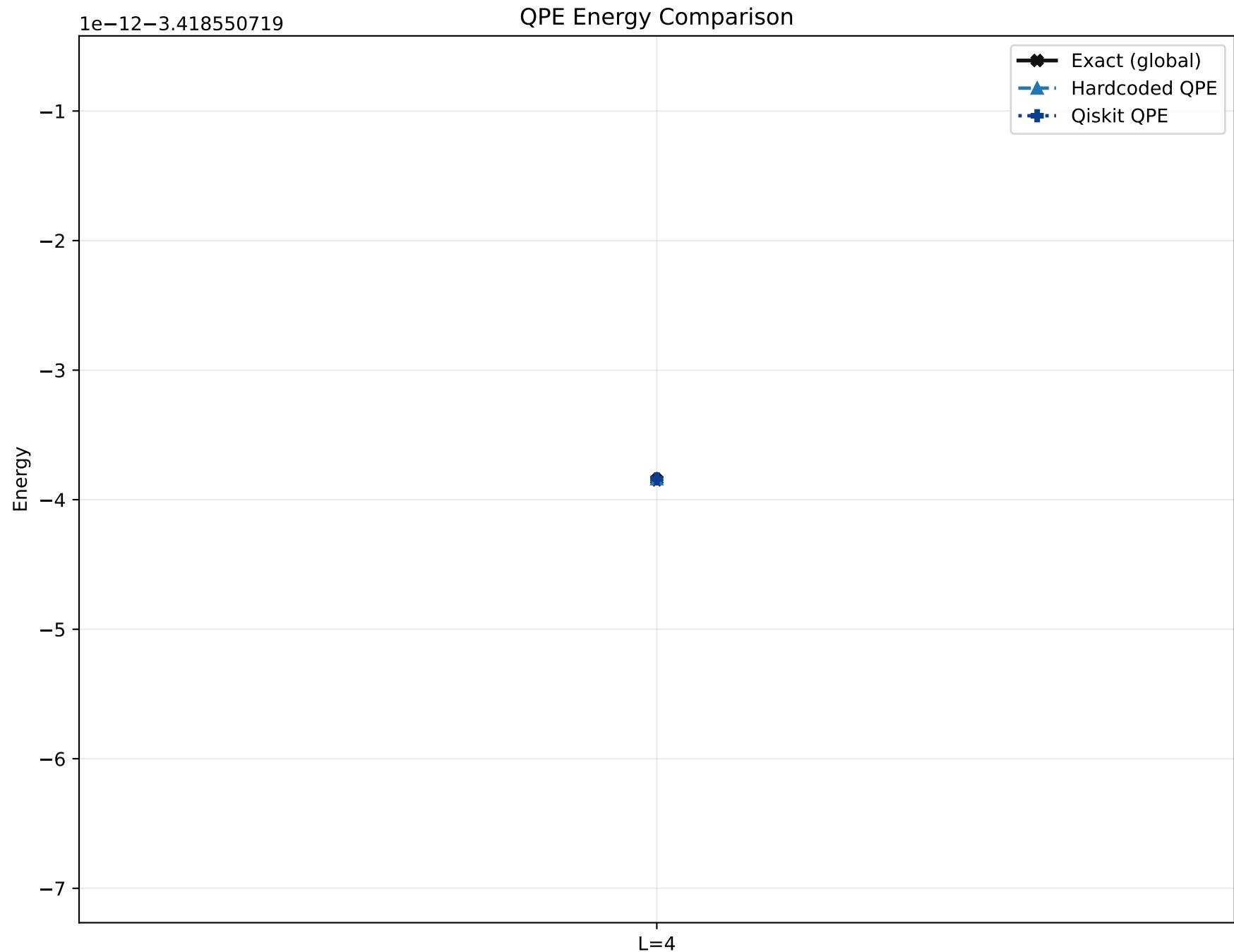


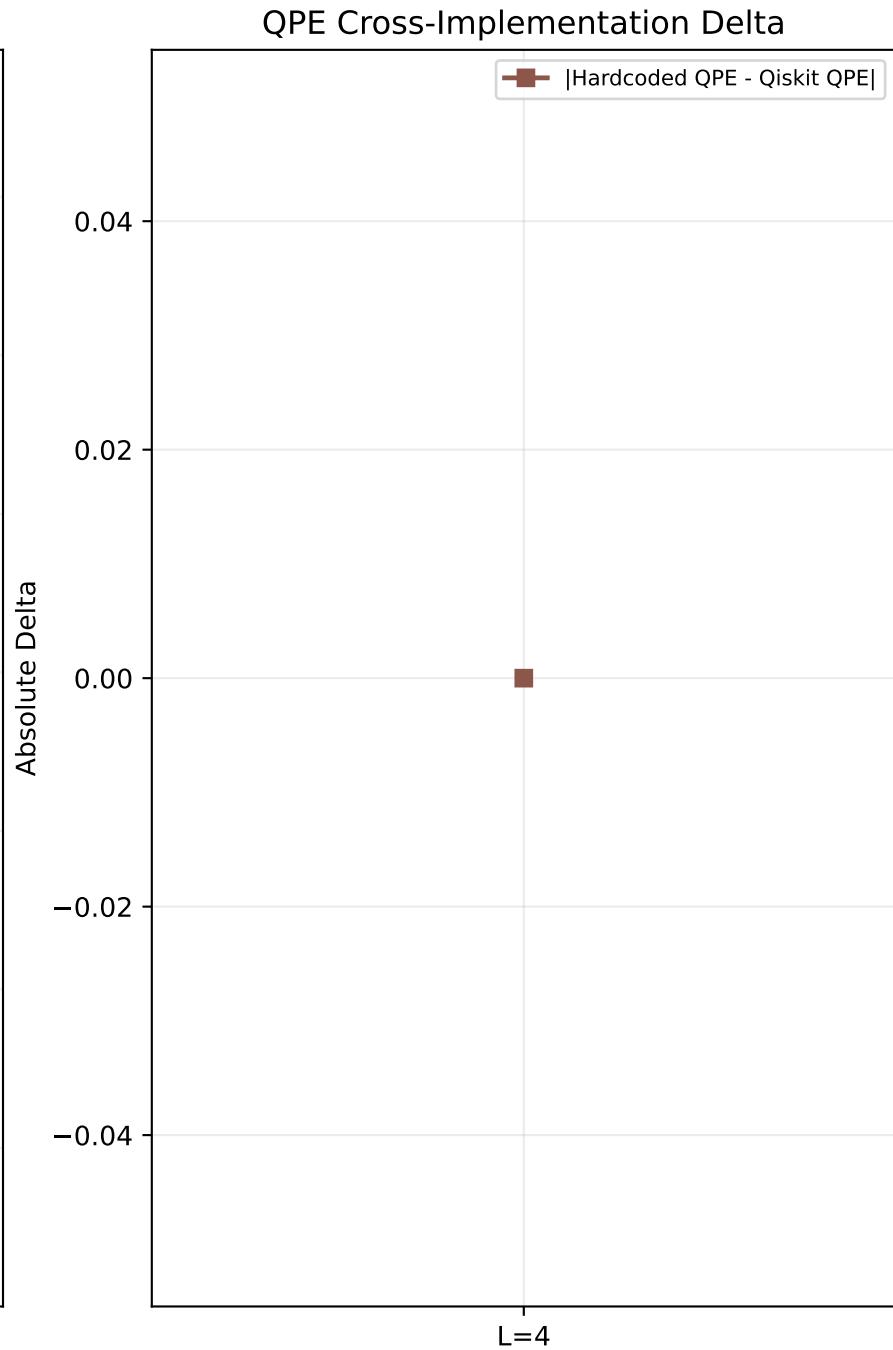
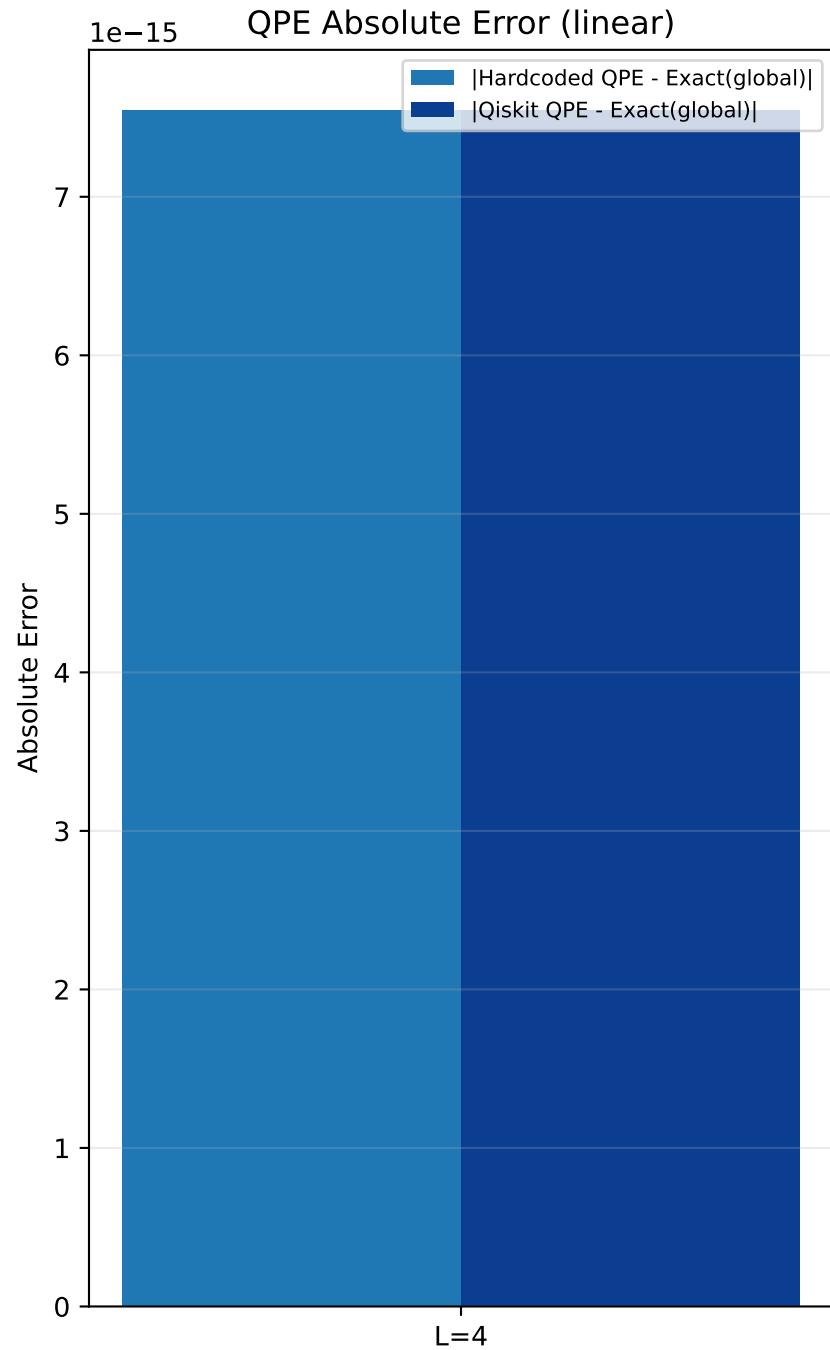
Hardcoded vs Qiskit Pipeline Comparison Summary

```
generated_utc: 2026-02-13T17:54:37.171289+00:00
all_pass: True
l_values: [4]
trajectory_comparison_basis: trotter trajectories start from each pipeline's selected initial_state_source (default: vqe)
thresholds: {"ground_state_energy_abs_delta": 1e-08, "fidelity_max_abs_delta": 0.0001, "energy_trotter_max_abs_delta": 0.001,
hardcoded_qiskit_import_isolation: {'pass': True, 'qpe_adapter_range': {'start_line': 299, 'end_line': 416}, 'qiskit_imports': []
Per-L pass flags:
L=4 pass=True metrics_json=Tests/artifacts/hardcoded_vs_qiskit_pipeline_L4_metrics.json
```



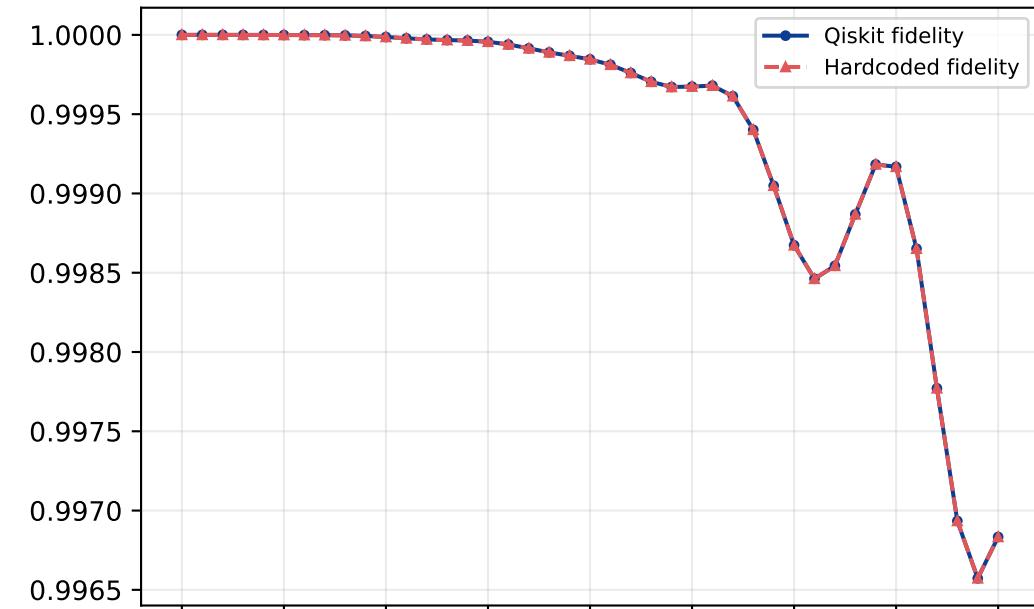




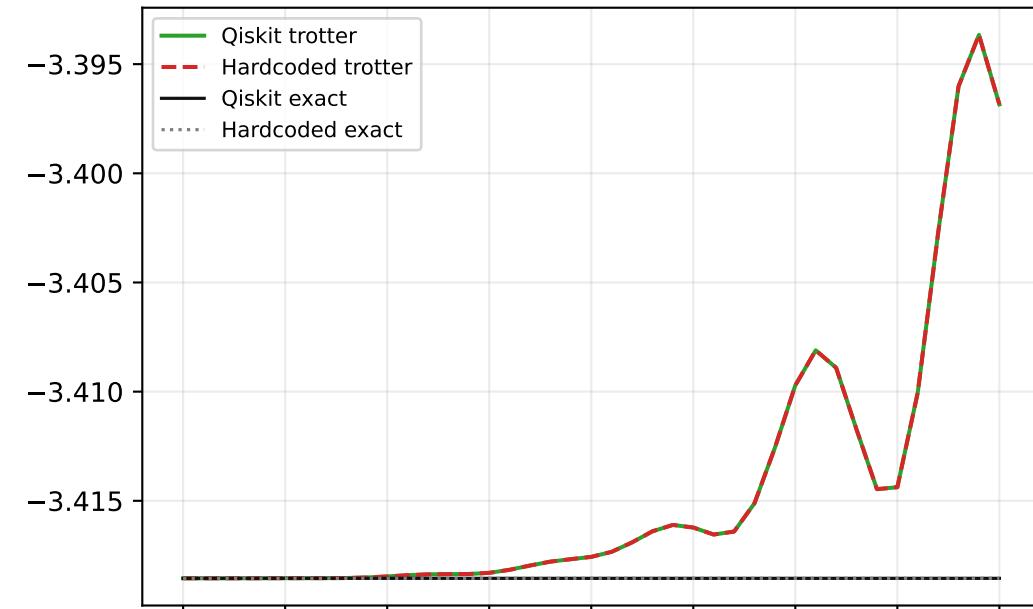


Bundle Page: L=4 Trajectory Comparison

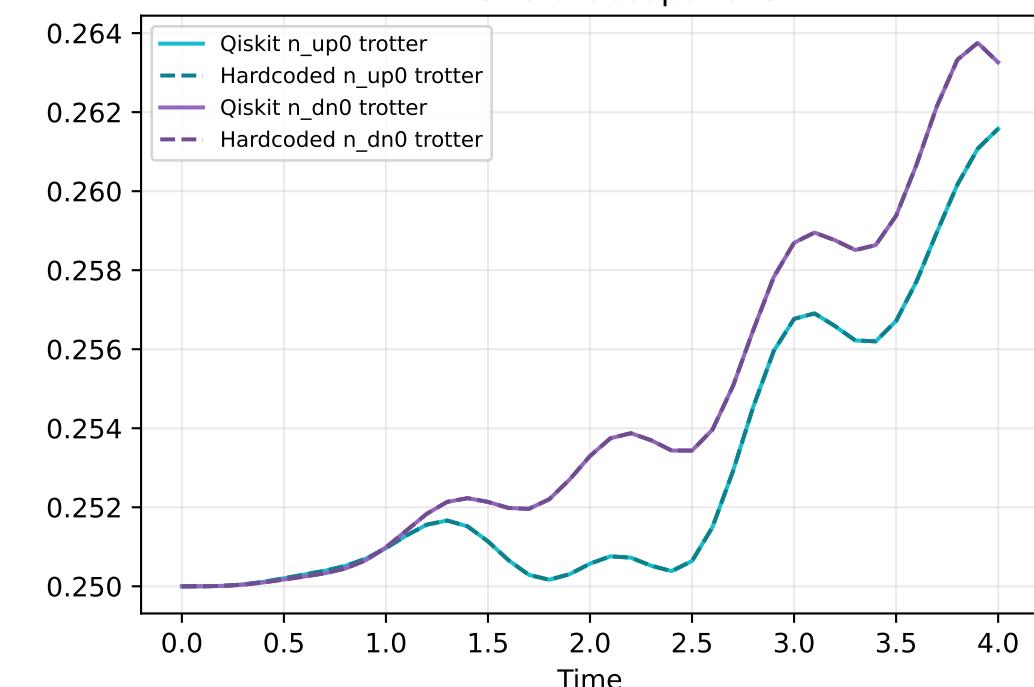
L=4 Fidelity



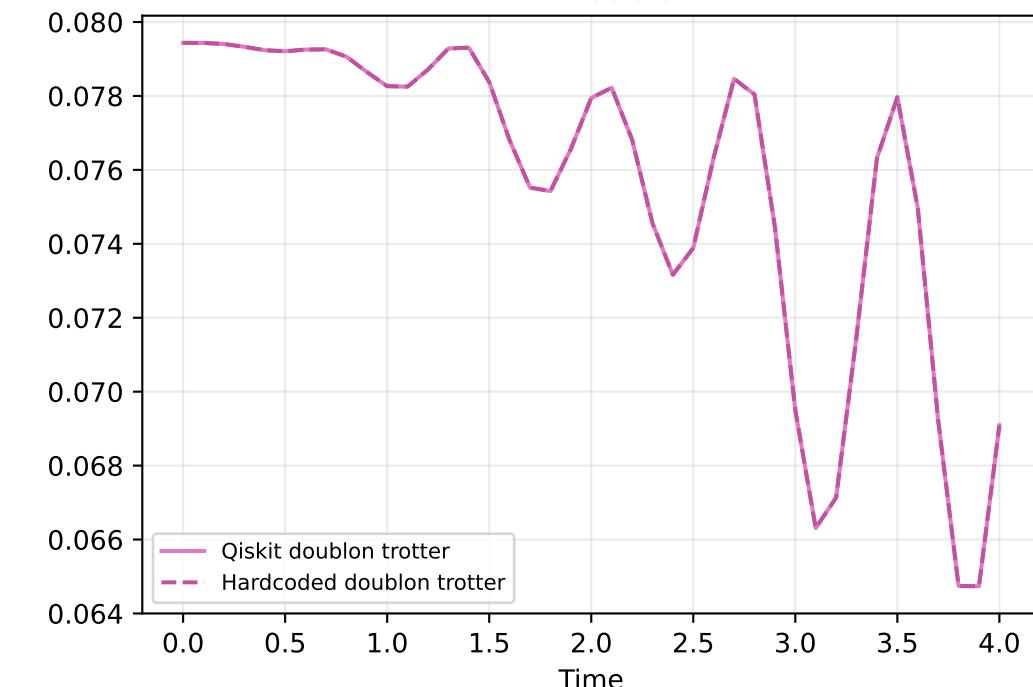
L=4 Energy



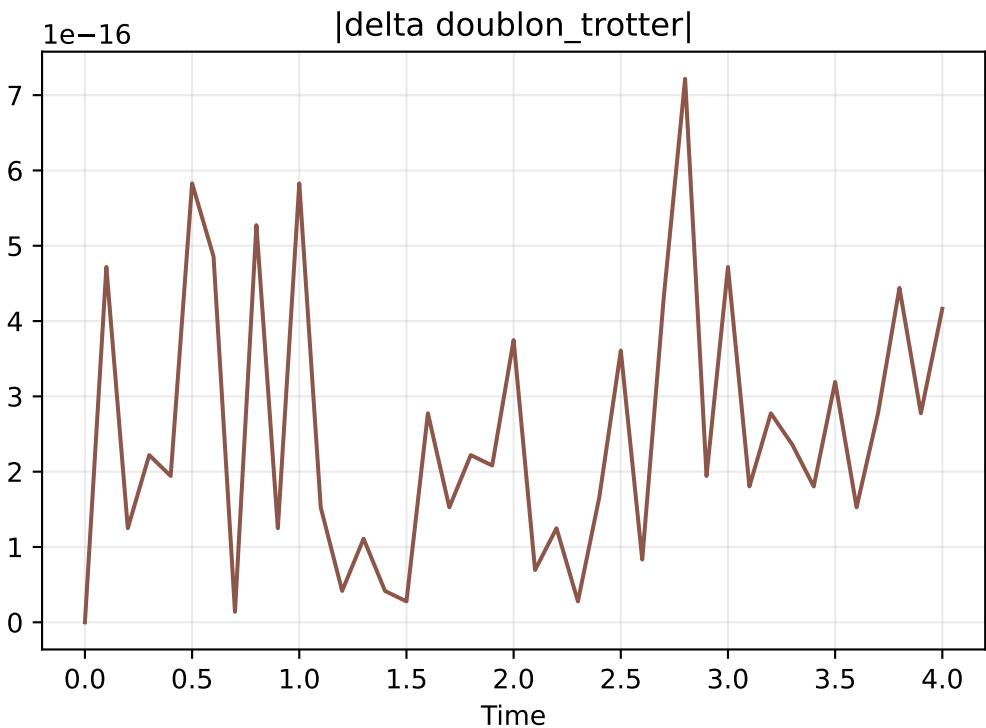
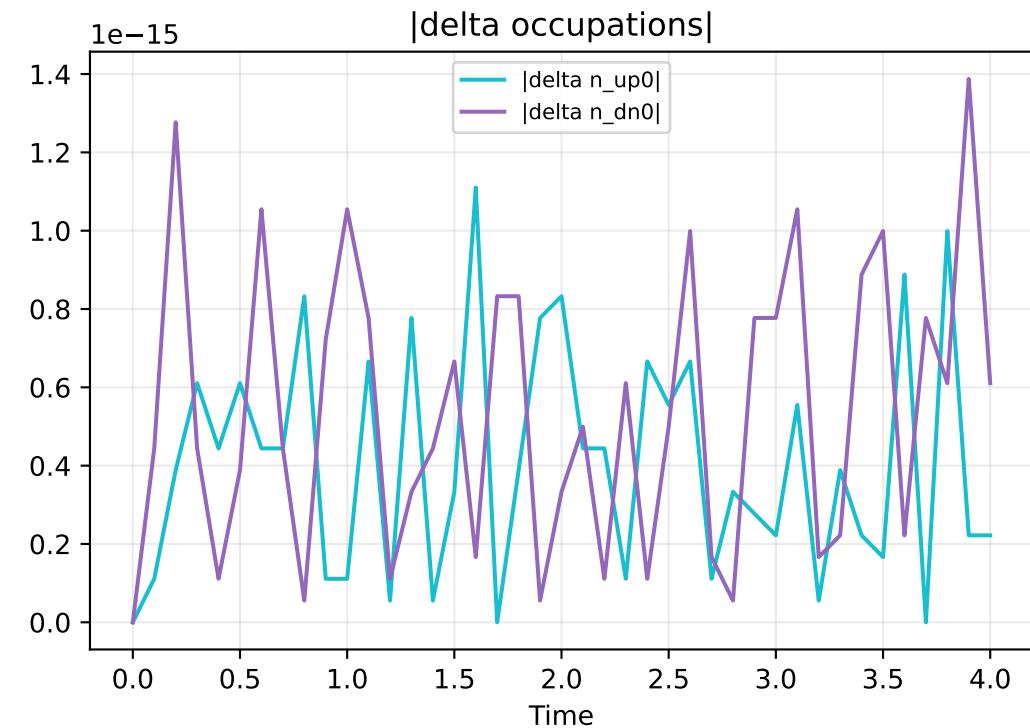
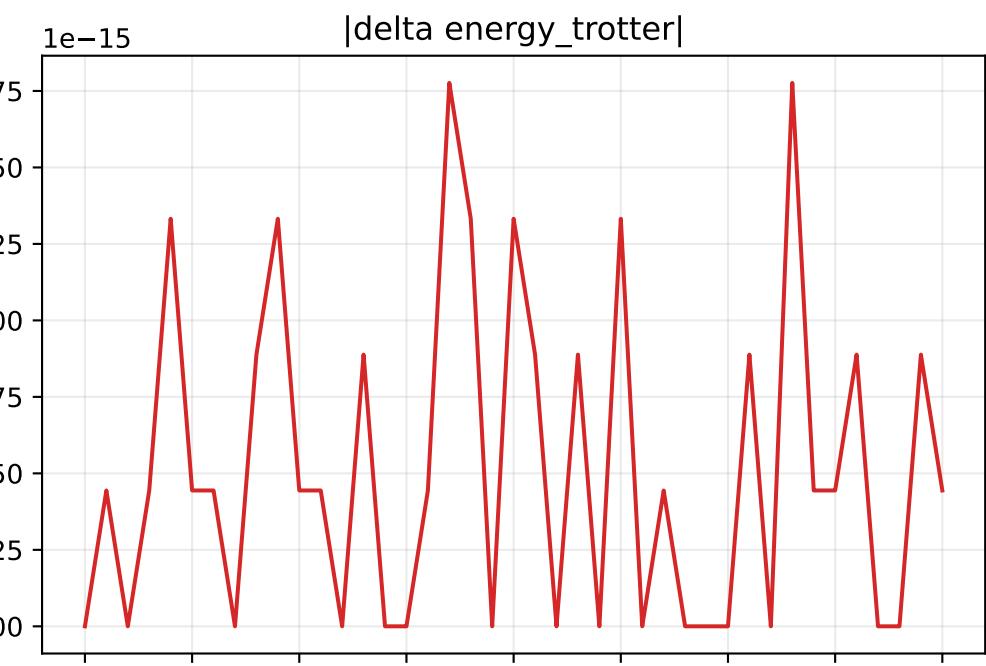
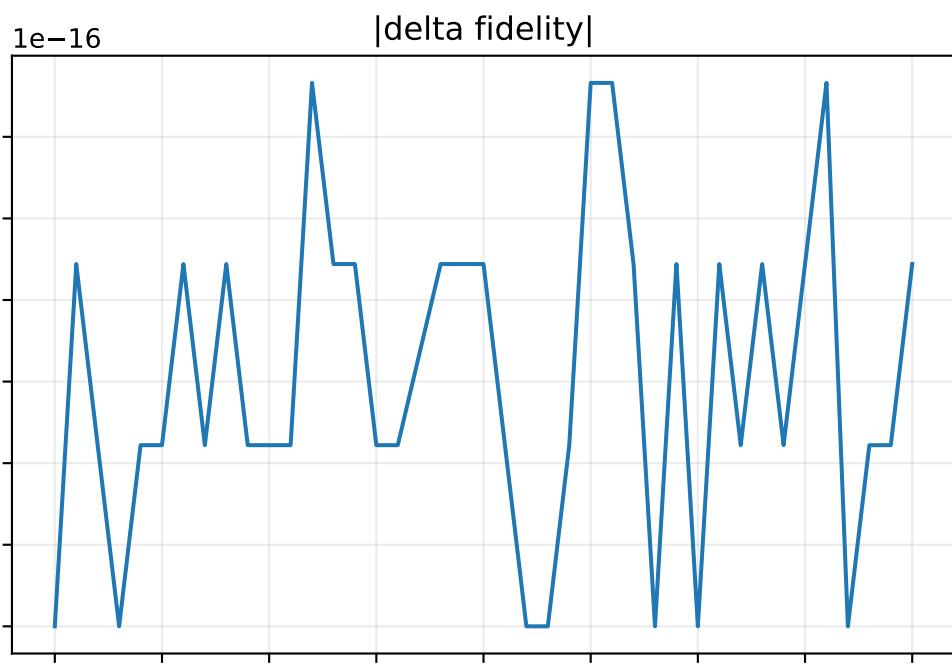
L=4 Site-0 Occupations



L=4 Doublon



Bundle Delta Diagnostics L=4



Bundle metrics page L=4

Trotterization comparison uses each path's configured initial state.
For VQE-init runs, both exact(t) and trotter(t) start from the VQE ansatz state.

```
ground_state_energy_abs_delta = 0.0
fidelity max/mean/final = 6.661338147750939e-16 / 3.059882970308358e-16 / 4.440892098500626e-16
energy_trotter max/mean/final = 1.7763568394002505e-15 / 5.199093188488538e-16 / 4.440892098500626e-16
n_up_site0_trotter max/mean/final = 1.1102230246251565e-15 / 4.0617915535066704e-16 / 2.220446049250313e-16
n_dn_site0_trotter max/mean/final = 1.3877787807814457e-15 / 5.388643460985516e-16 / 6.106226635438361e-16
doublon_trotter max/mean/final = 7.216449660063518e-16 / 2.5250804157633134e-16 / 4.163336342344337e-16

checks = {'ground_state_energy_abs_delta': True, 'fidelity_max_abs_delta': True, 'energy_trotter_max_abs_delta': True, 'n_up_s
PASS = True
```