

Executed Command

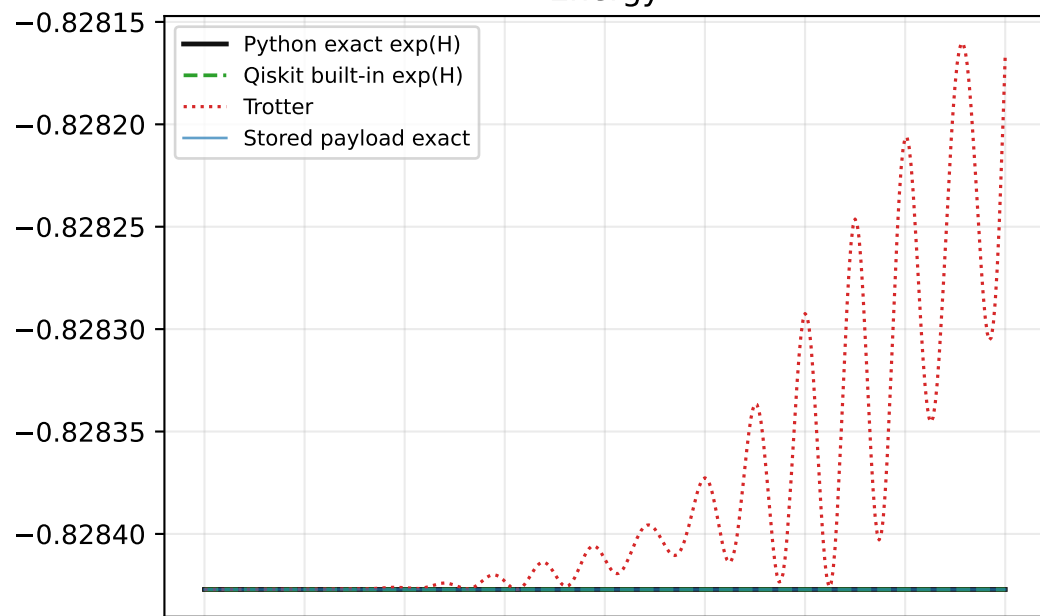
Reference: pipelines/PIPELINE_RUN_GUIDE.md

Script: pipelines/l2_vqe_exact_dynamics_dual_method.py

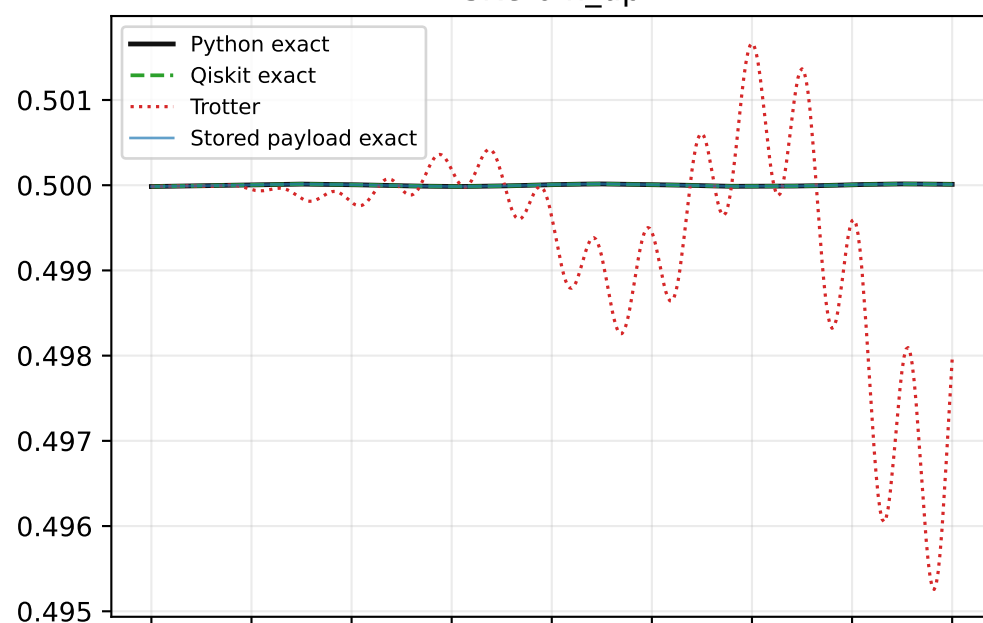
/opt/anaconda3/bin/python3 /Users/jakestrobels/Downloads/qdynamics-main/Fermi-Hamil-JW-VQE-TROTTER-PIPELINE/pipelines/l2_vqe_exact_dynamics_dual_method.py

L=2 Exact Dynamics Comparison (hardcoded VQE initial state): Python exp(H) vs Qiskit exp(H) vs Trotter

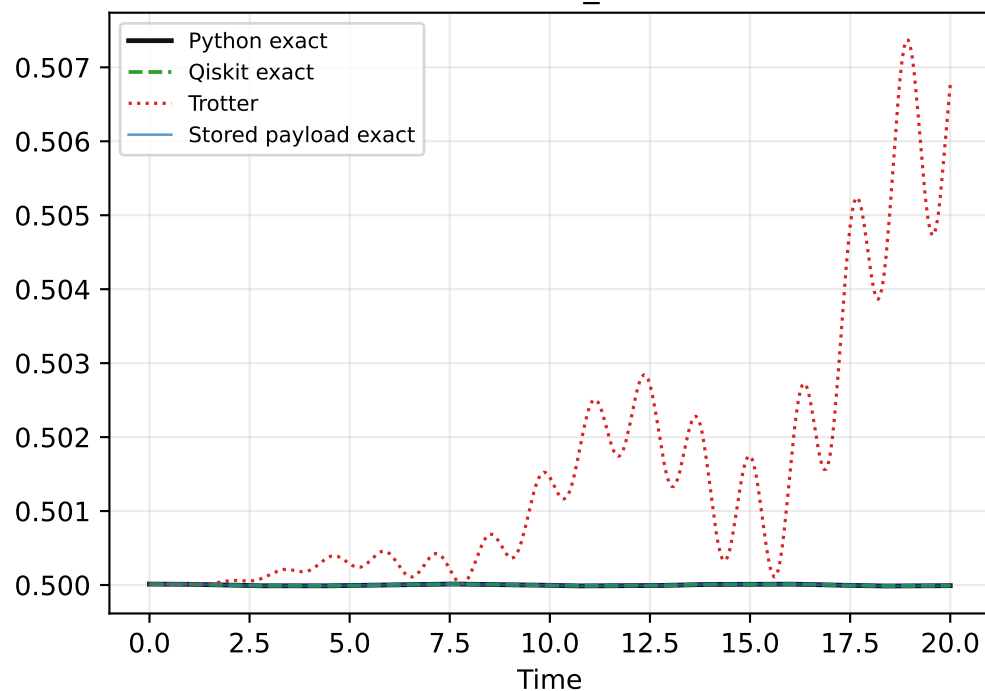
Energy



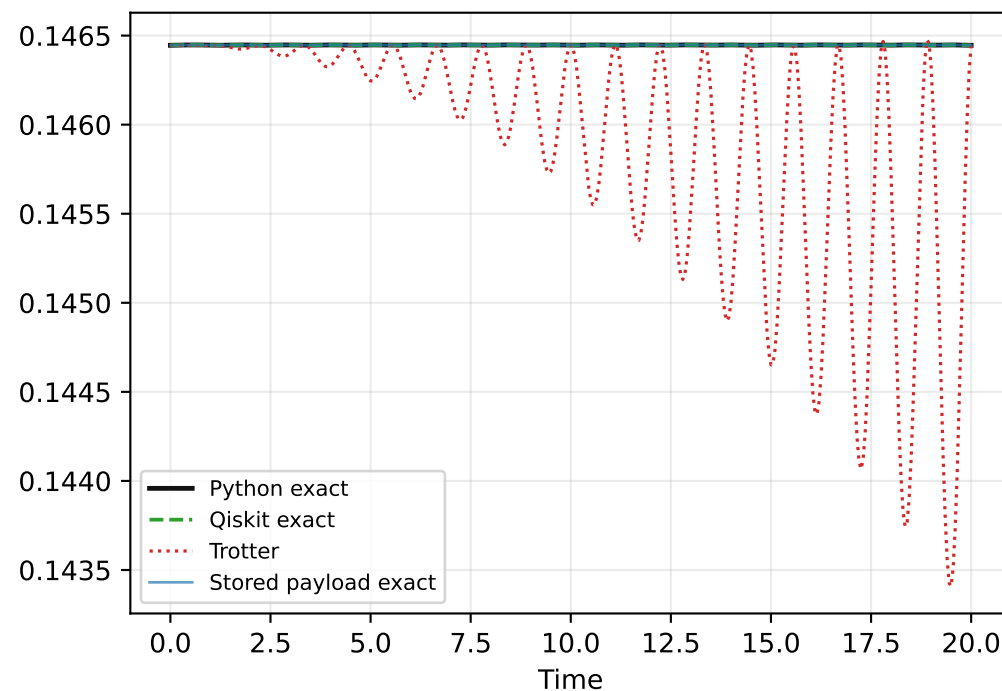
Site-0 n_{up}



Site-0 n_{dn}

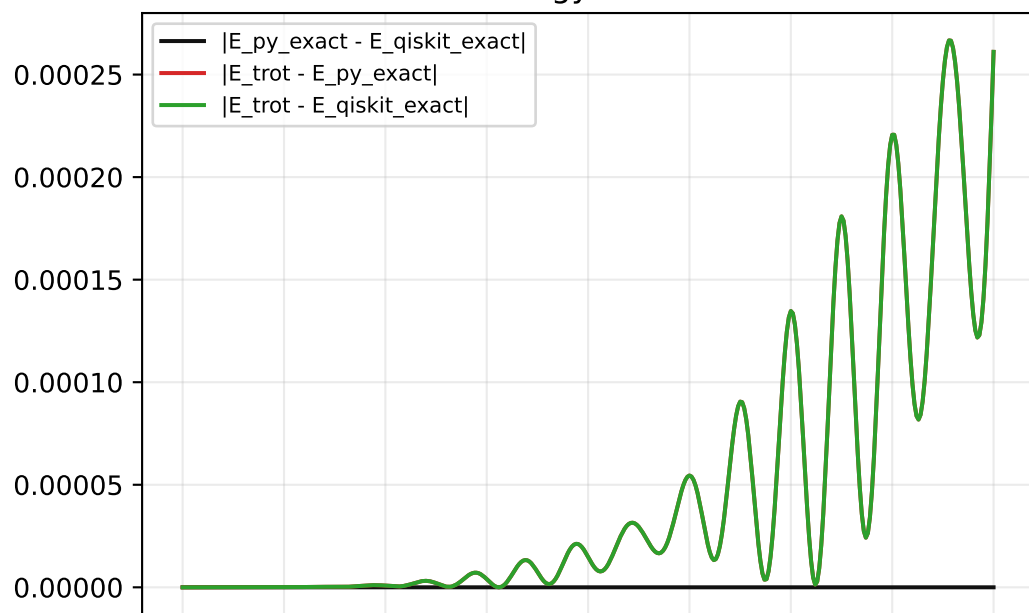


Total Doublon

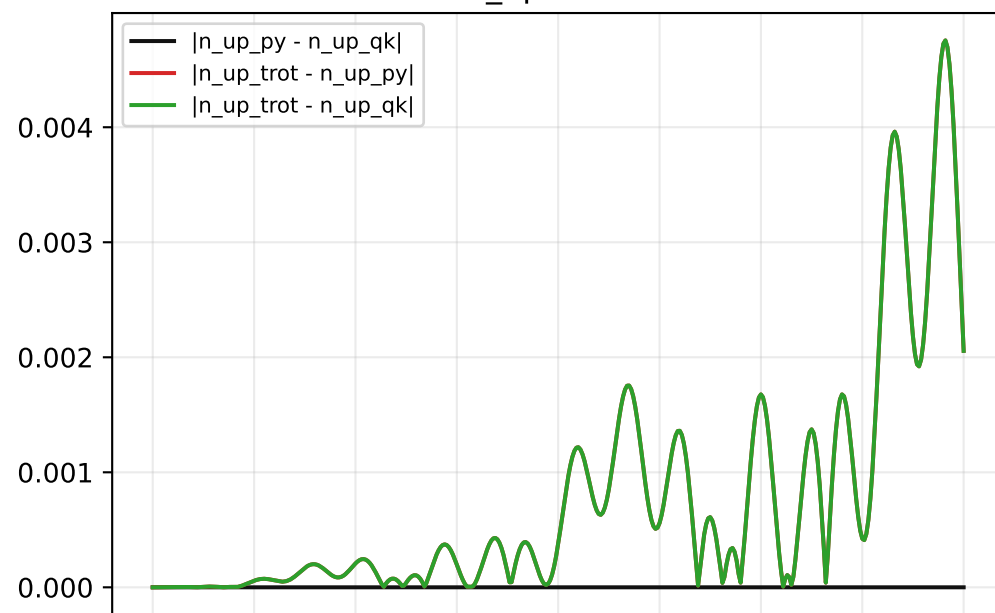


L=2 Delta Diagnostics (hardcoded VQE initial state)

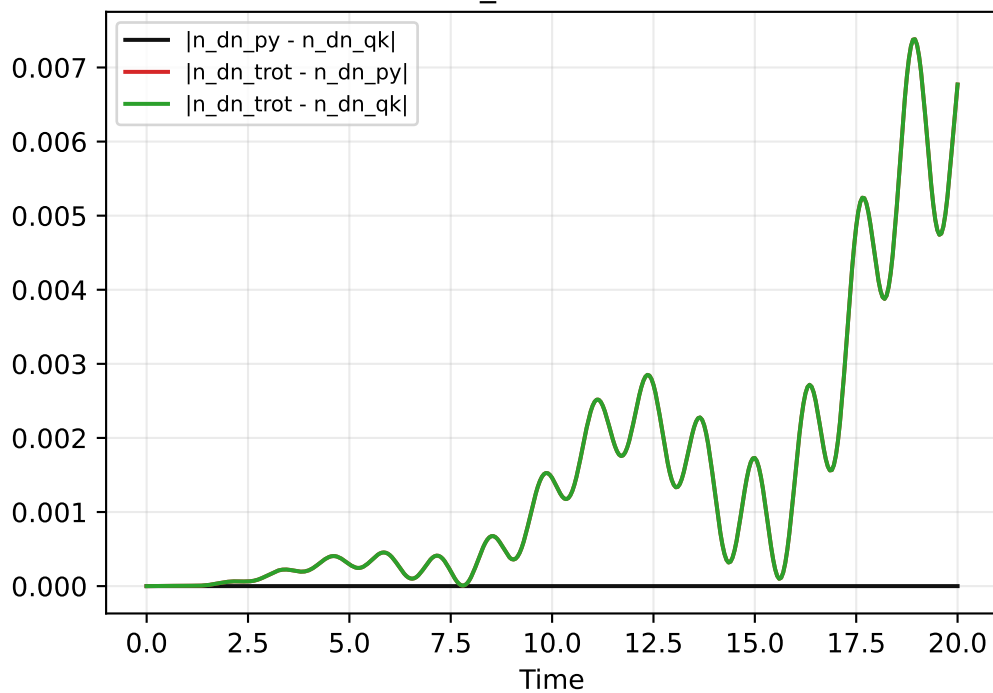
Energy deltas



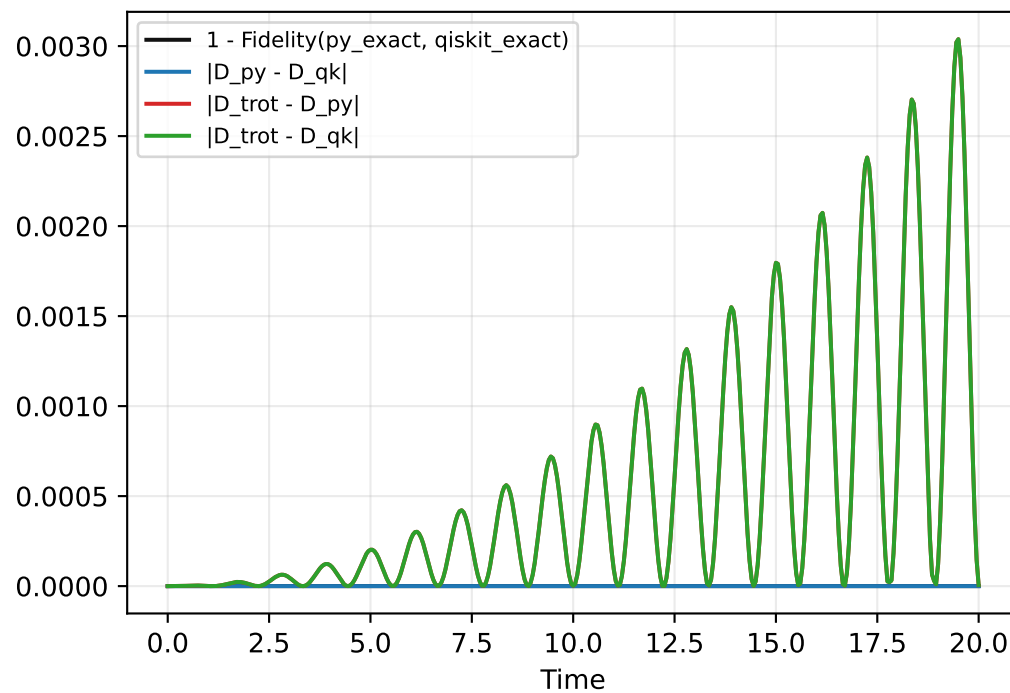
n_up deltas



n_dn deltas

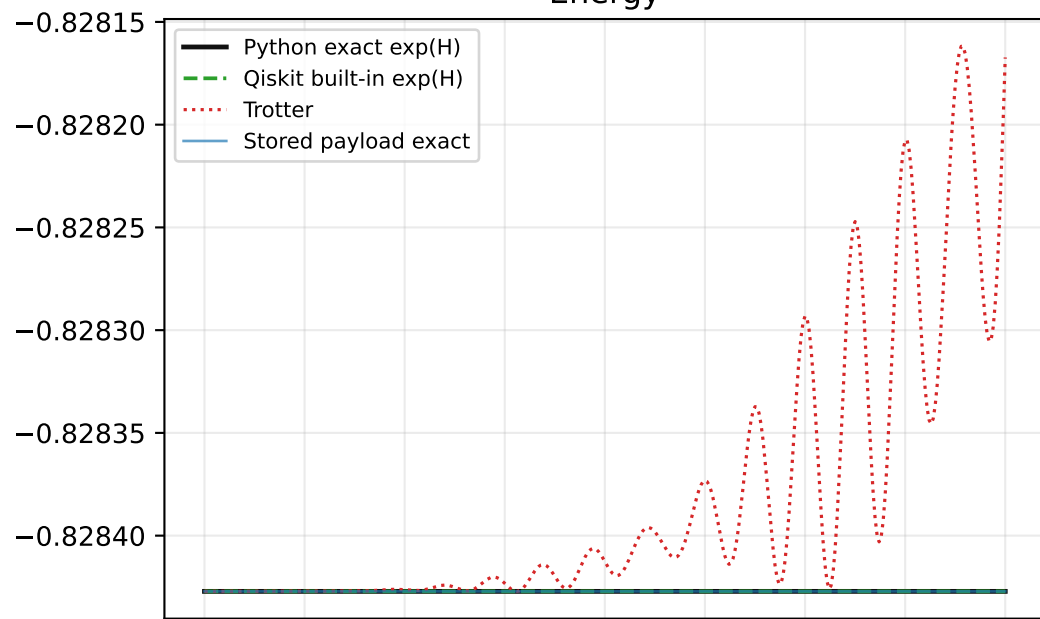


State/observable deltas

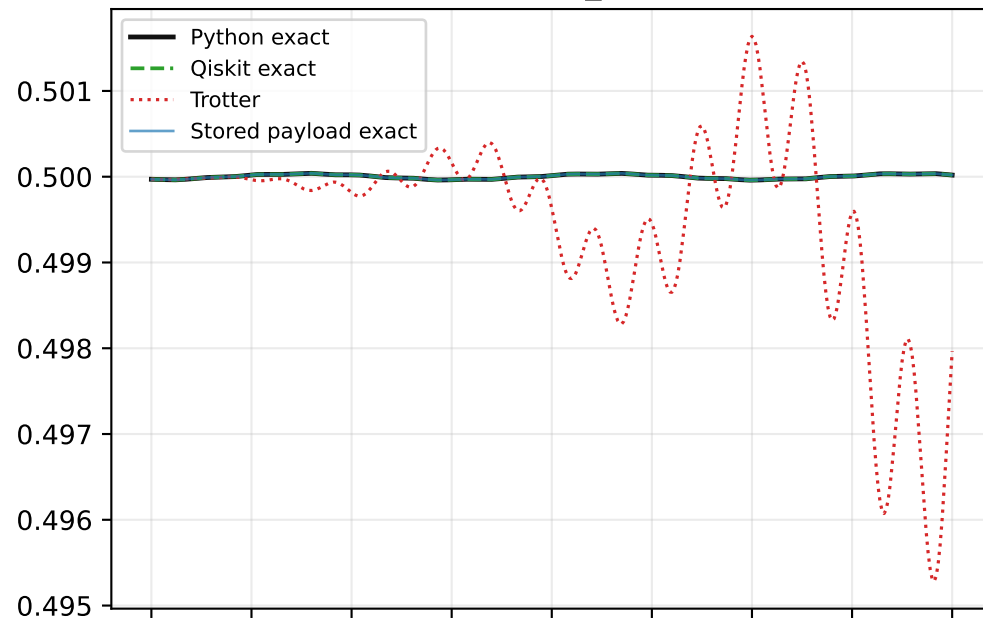


L=2 Exact Dynamics Comparison (qiskit VQE initial state): Python exp(H) vs Qiskit exp(H) vs Trotter

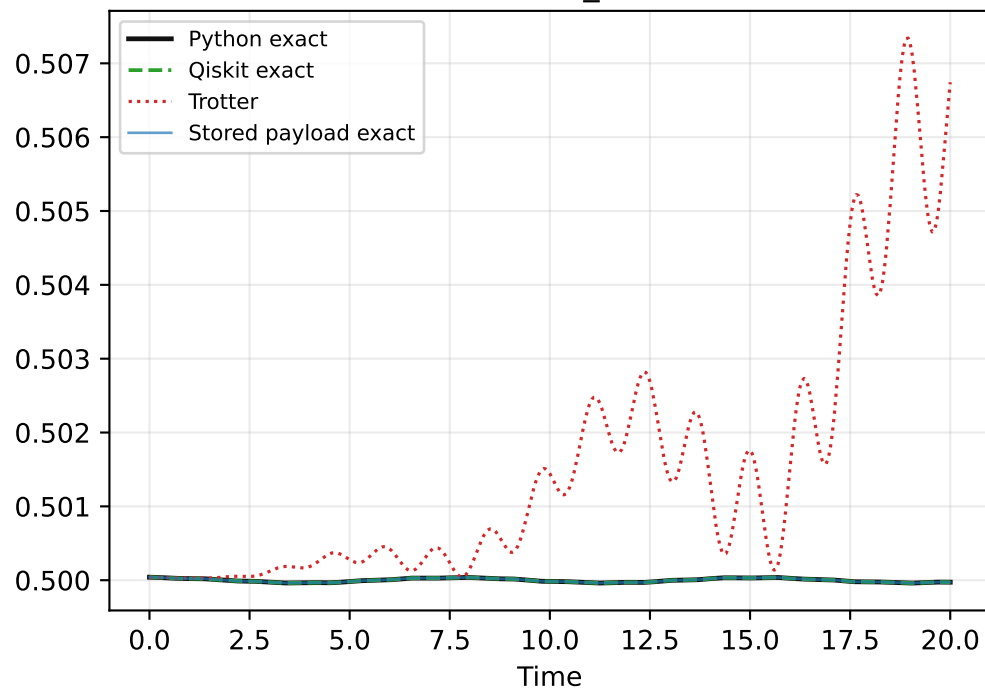
Energy



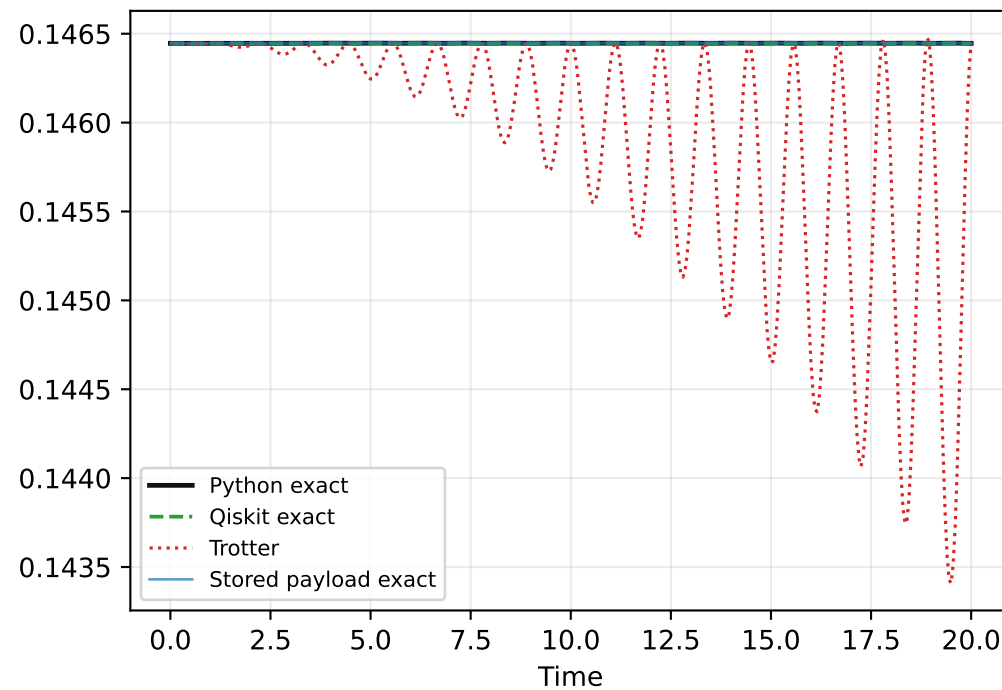
Site-0 n_{up}



Site-0 n_{dn}

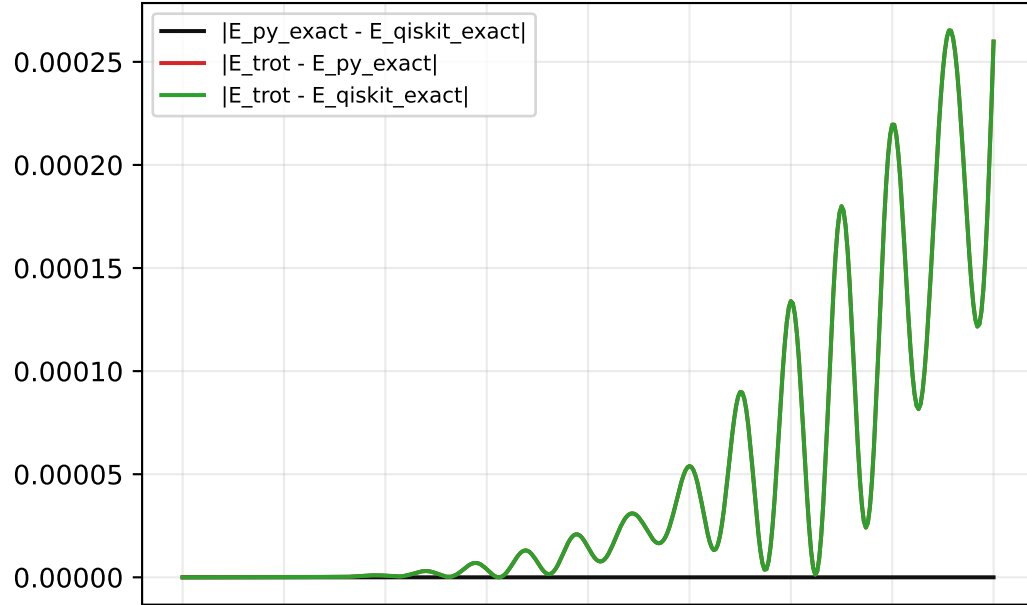


Total Doublon

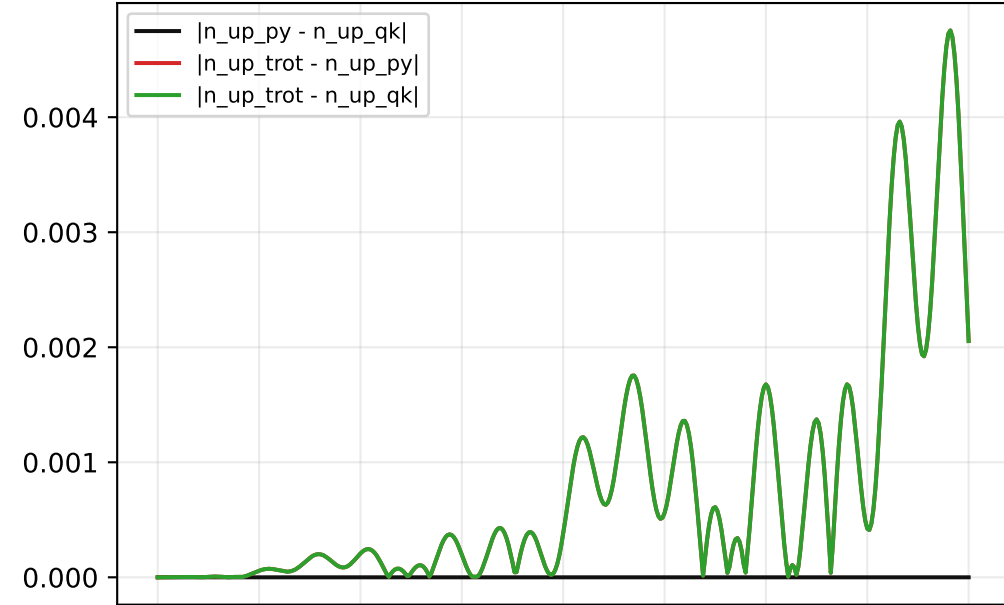


L=2 Delta Diagnostics (qiskit VQE initial state)

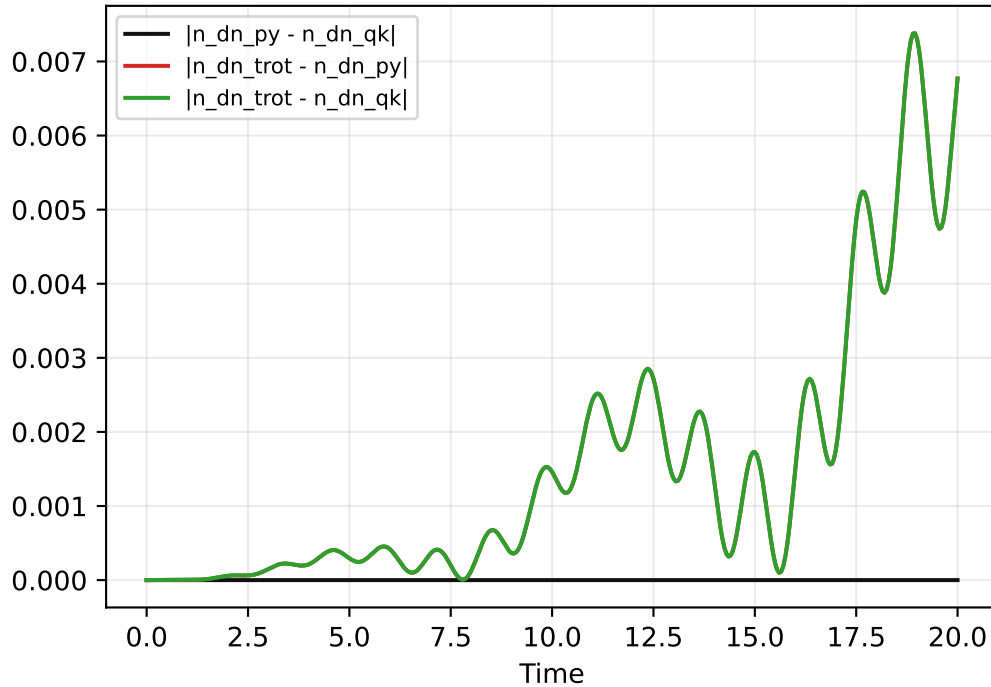
Energy deltas



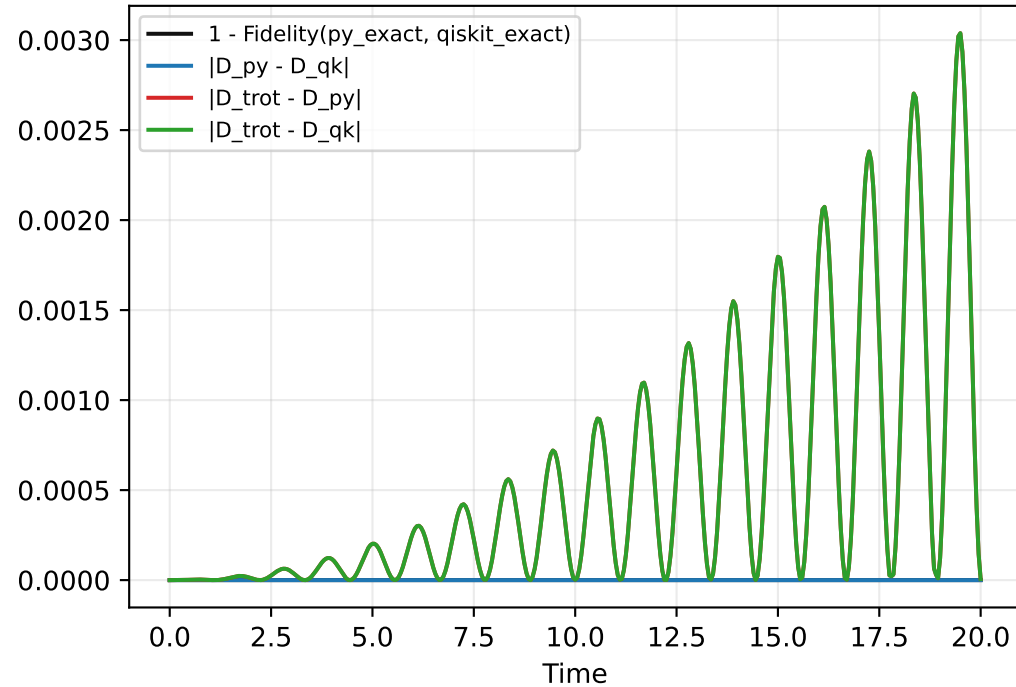
n_up deltas



n_dn deltas



State/observable deltas



L=2 VQE Ansatz Exact-Dynamics Summary

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    "qiskit_json": "/Users/jakestrobels/Downloads/qdynamics-main/Fermi-Hamil-JW-VQE-TROTTER-PIPELINE/artifacts/qiskit_pipeline_L2.json"
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