L=2 Hardcoded vs Frozen Qiskit Time Dynamics (iter1_final)
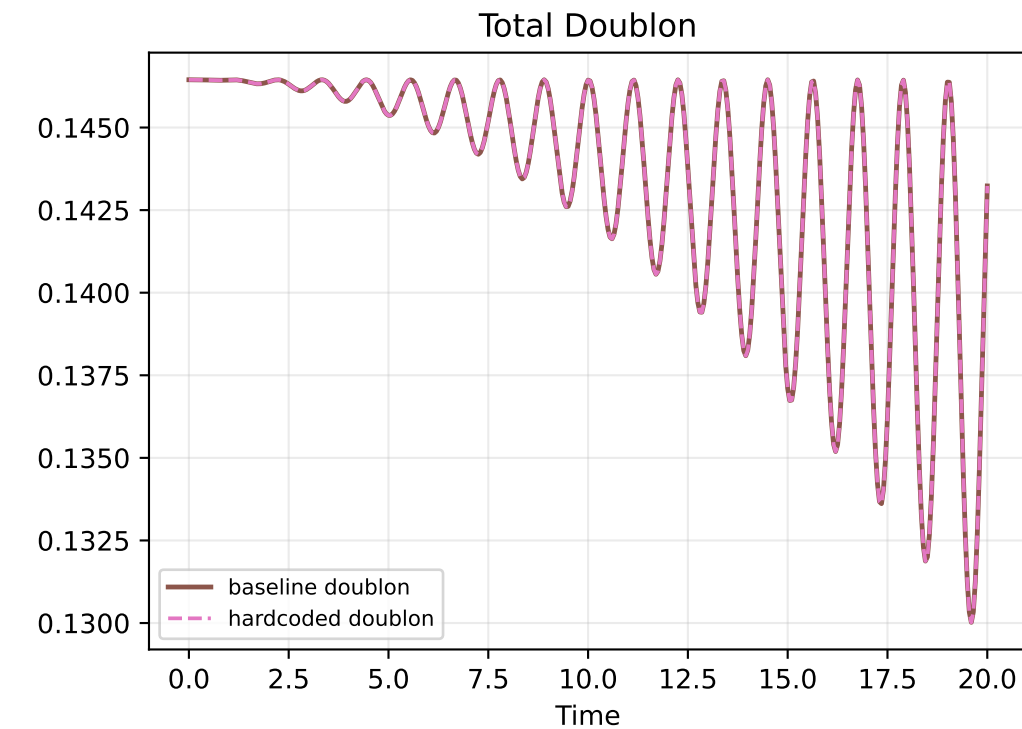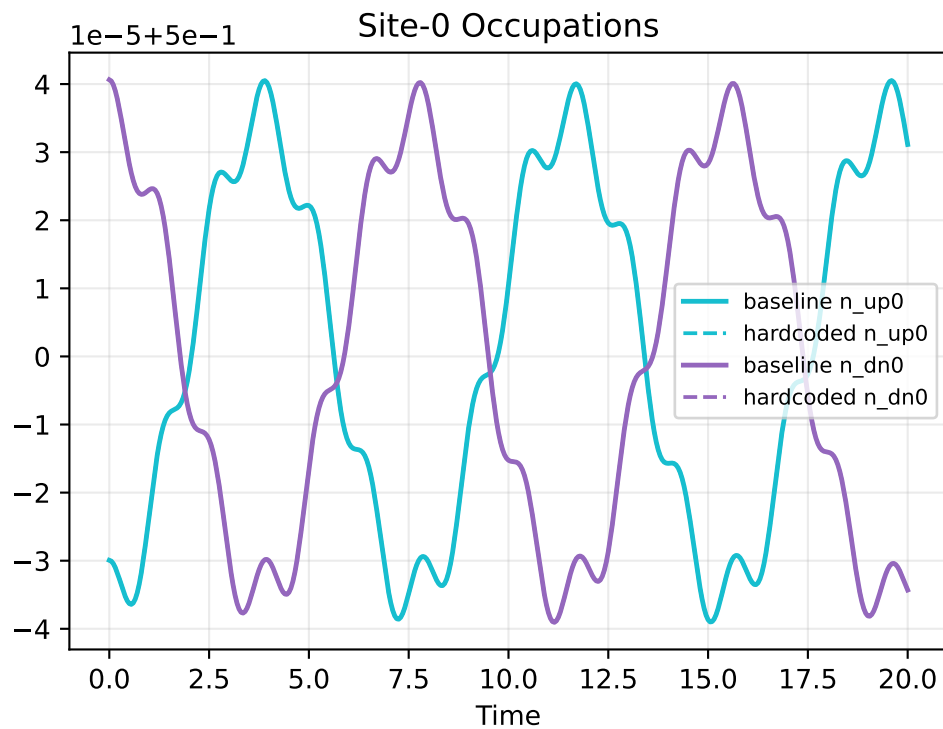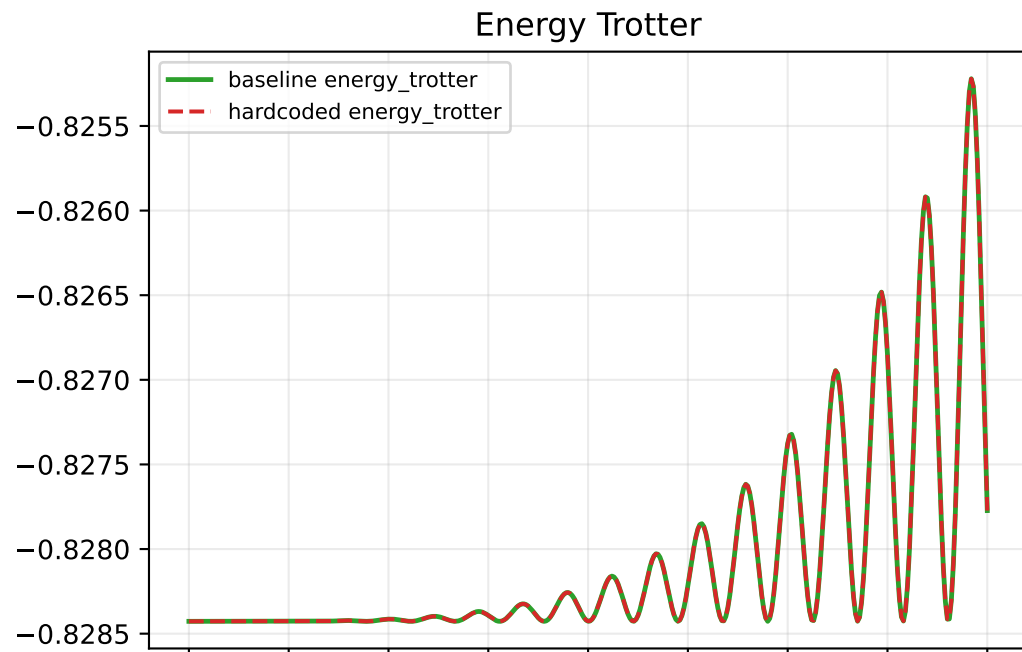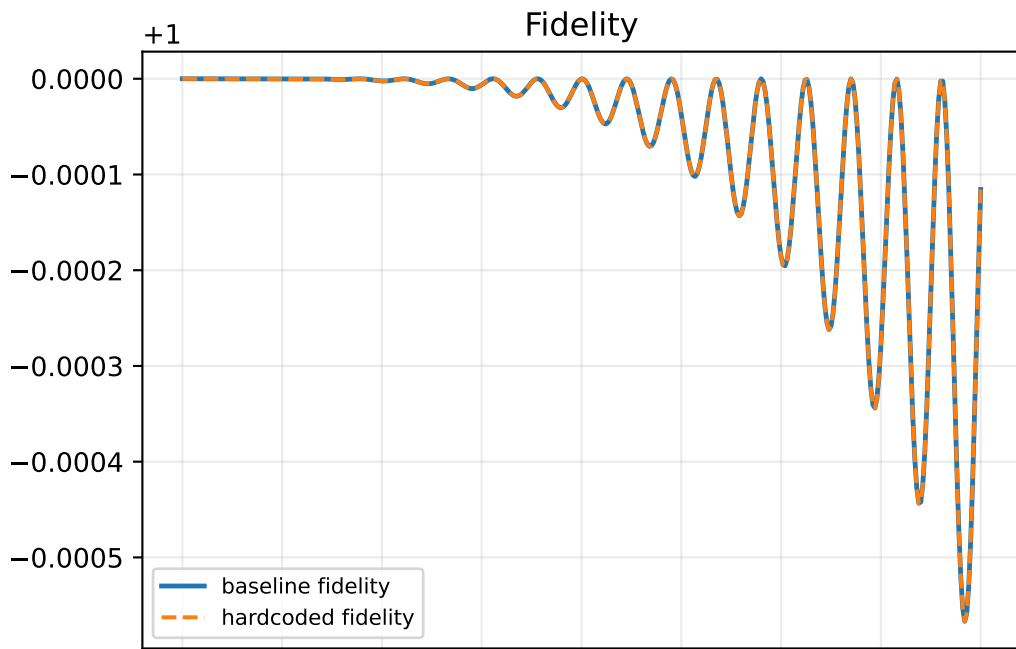
L=2 Delta Diagnostics (iter1_final)

|delta fidelity|

|delta energy_trotter|

Occupation Deltas

- |delta n_up0|
- |delta n_dn0|

|delta doublon|
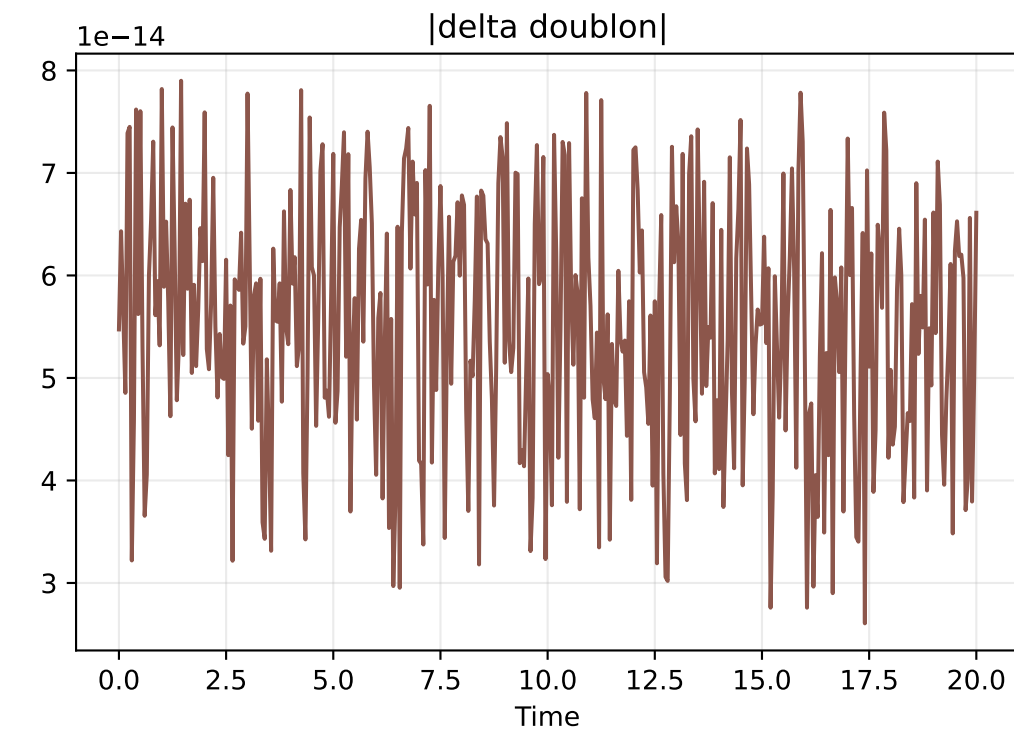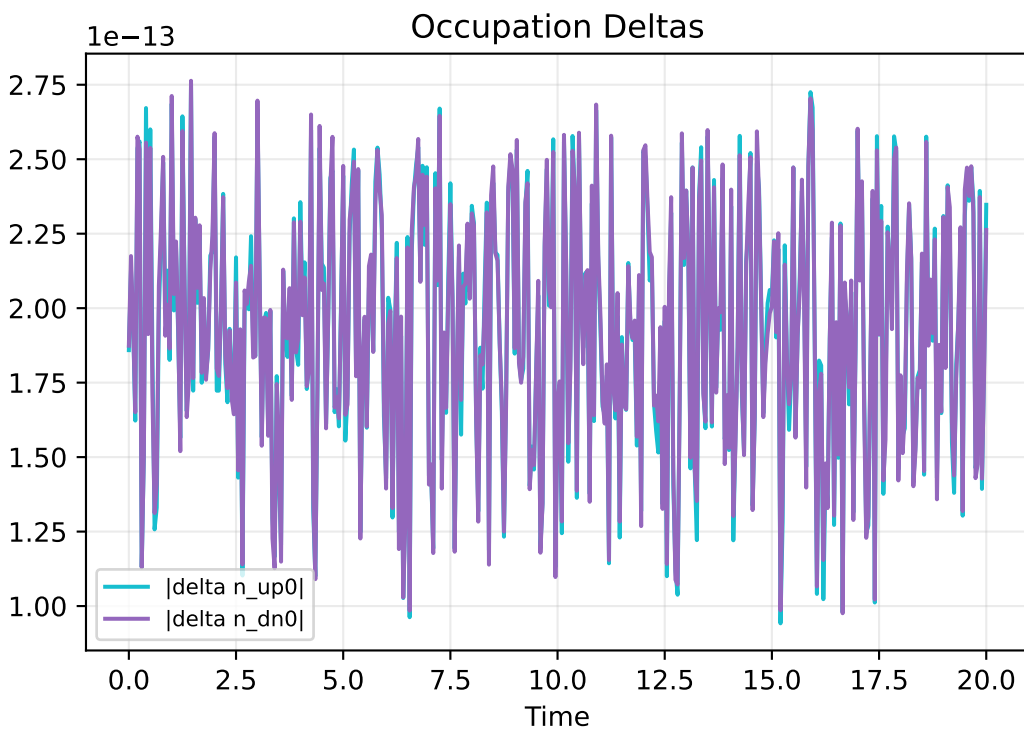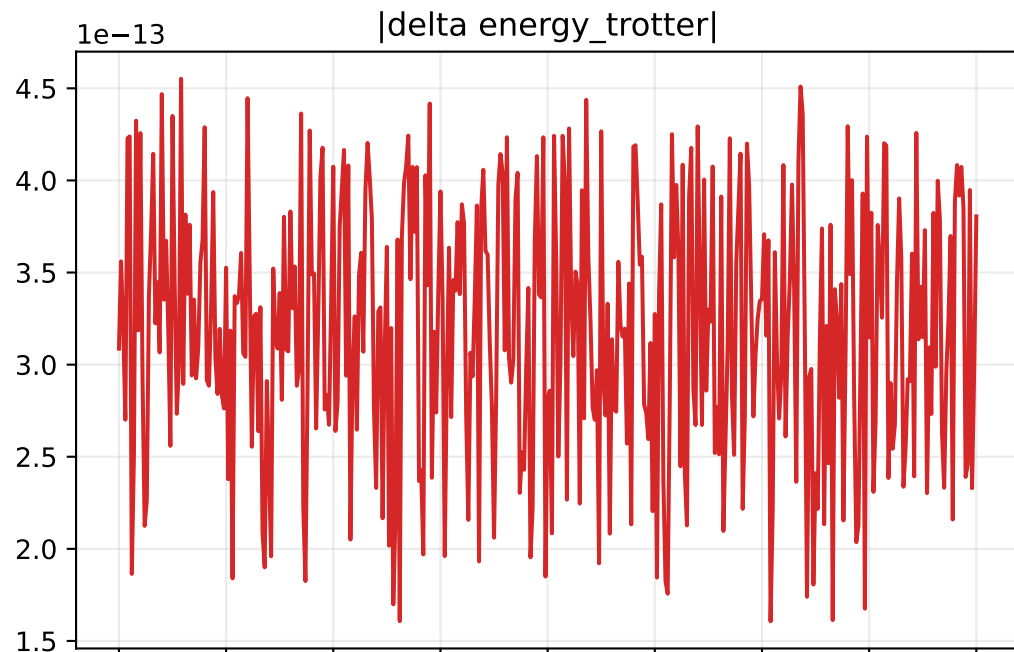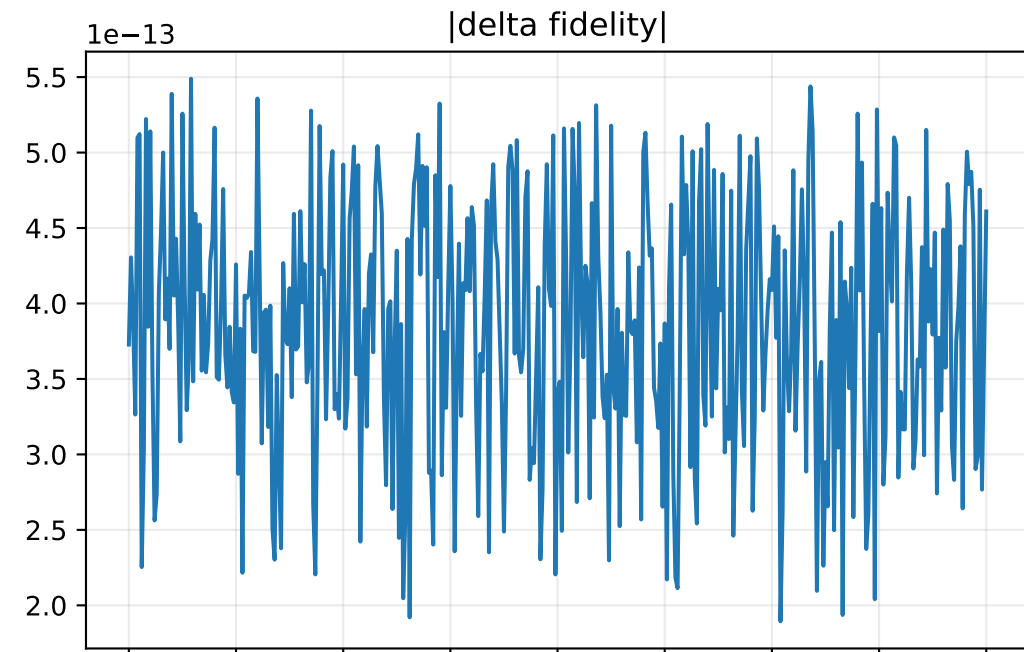
```
L=2 metrics summary (iter1_final)

ground-state energy abs delta: 1.886020006836e-09
fidelity max/mean/final: 5.488942633747e-13 / 3.849085085020e-13 / 4.609645998244e-13
energy_trotter max/mean/final: 4.551914400963e-13 / 3.188710033066e-13 / 3.804734305390e-13
n_up_site0_trotter max/mean/final: 2.754463324095e-13 / 1.923451699937e-13 / 2.347011474058e-13
n_dn_site0_trotter max/mean/final: 2.763345108292e-13 / 1.927427461192e-13 / 2.262634524186e-13
doublon_trotter max/mean/final: 7.899236820208e-14 / 5.527415599209e-14 / 6.611378111643e-14

Acceptance checks: {'ground_state_energy_abs_delta': True, 'fidelity_max_abs_delta': True, 'energy_trotter_max_abs_delta': Tru
PASS: True
```