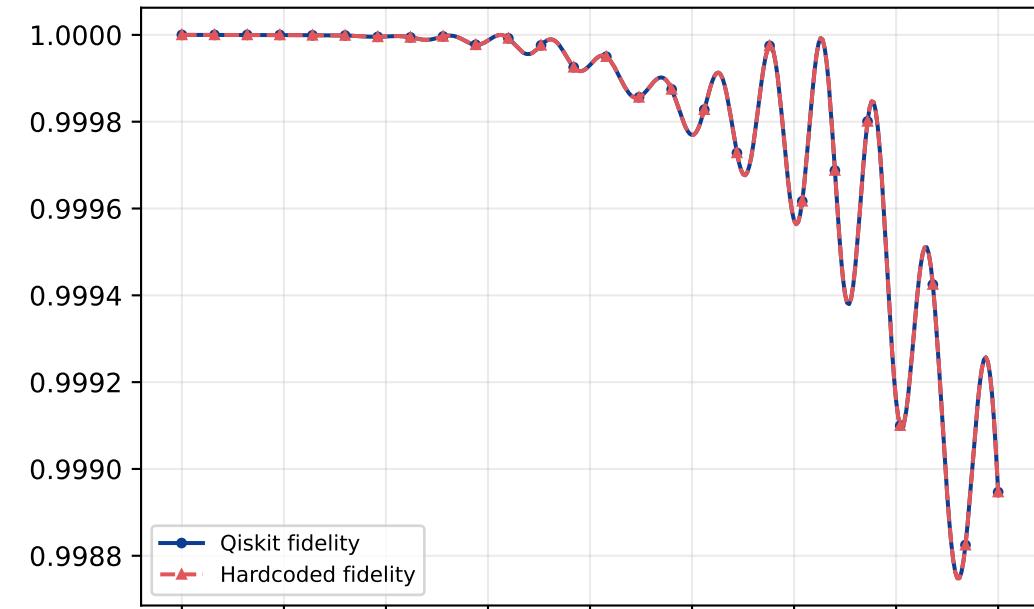
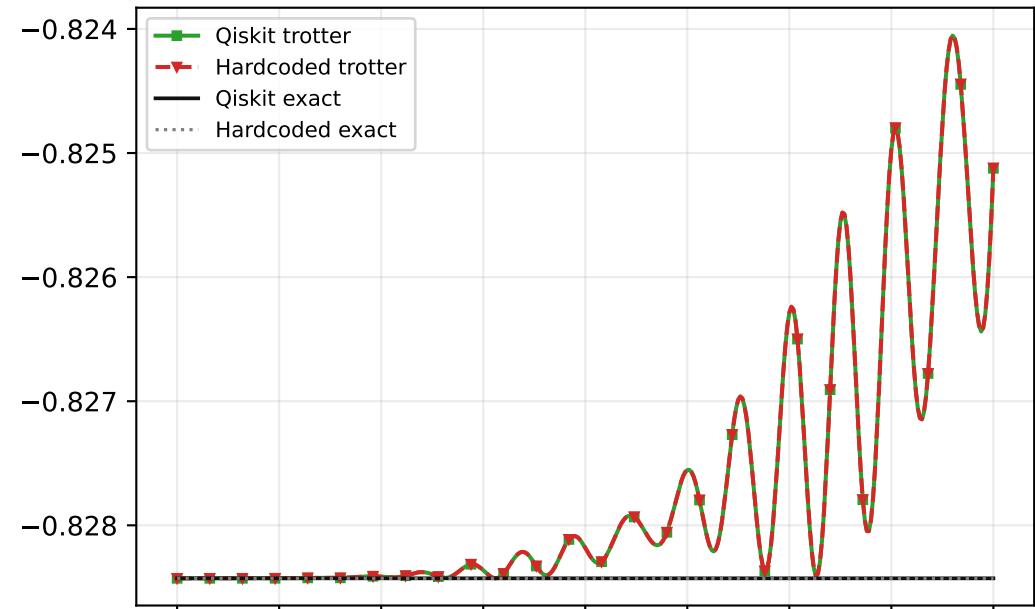


Pipeline Comparison L=2: Hardcoded vs Qiskit

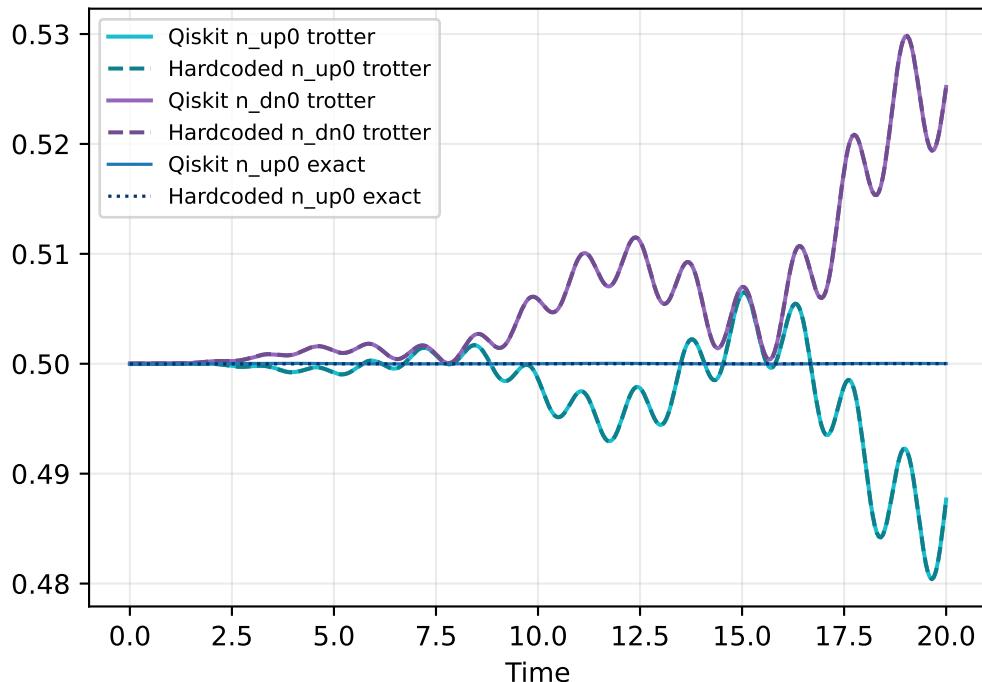
Fidelity



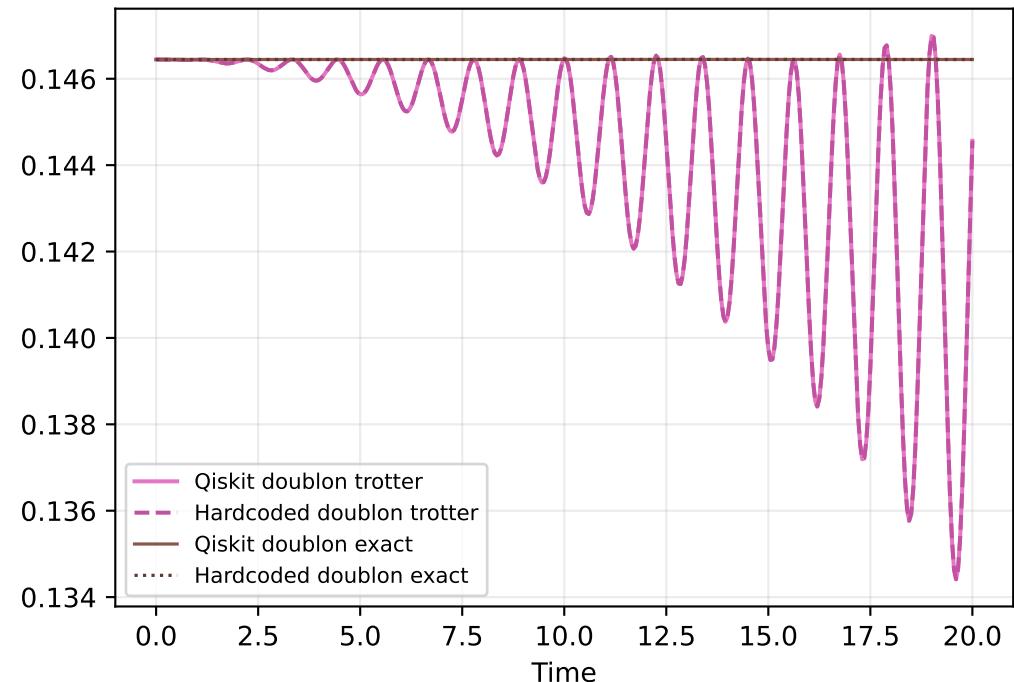
Energy



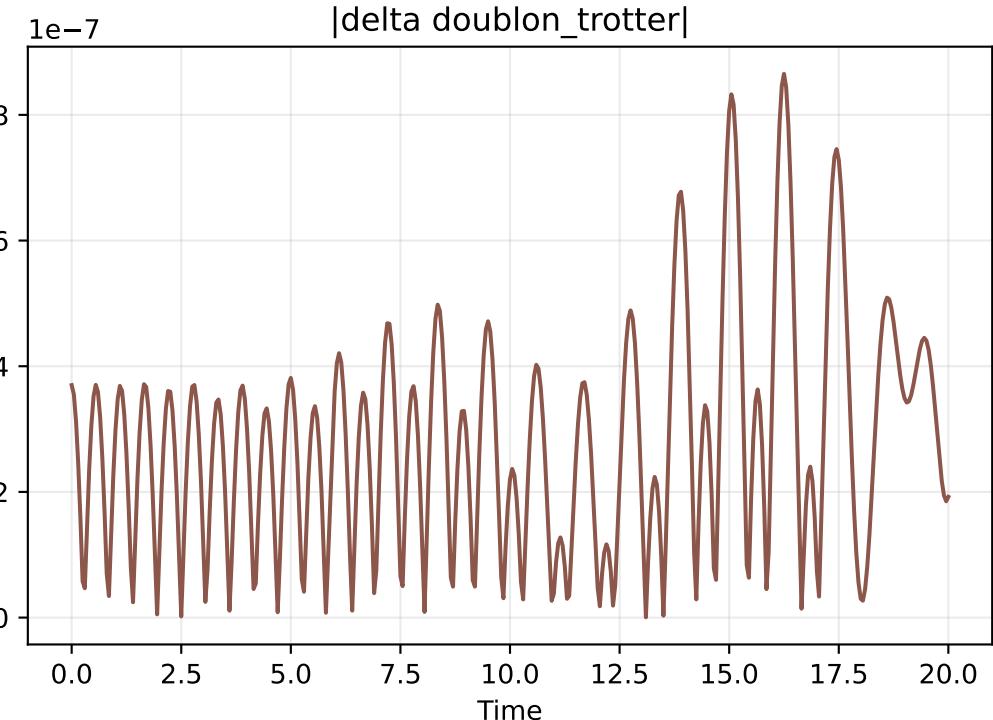
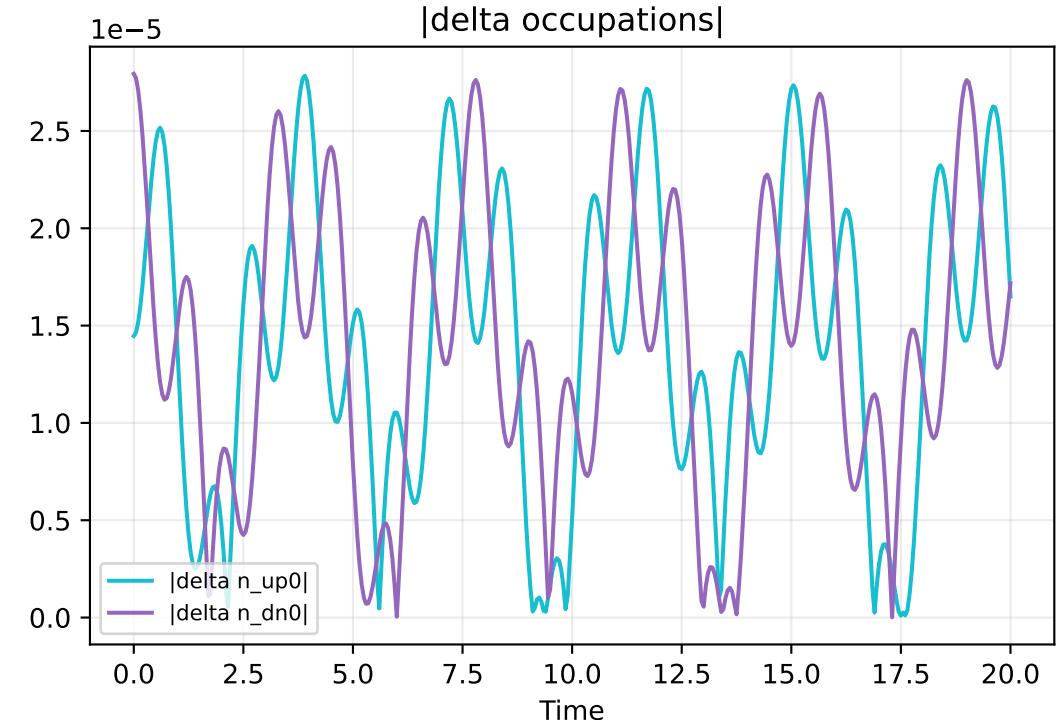
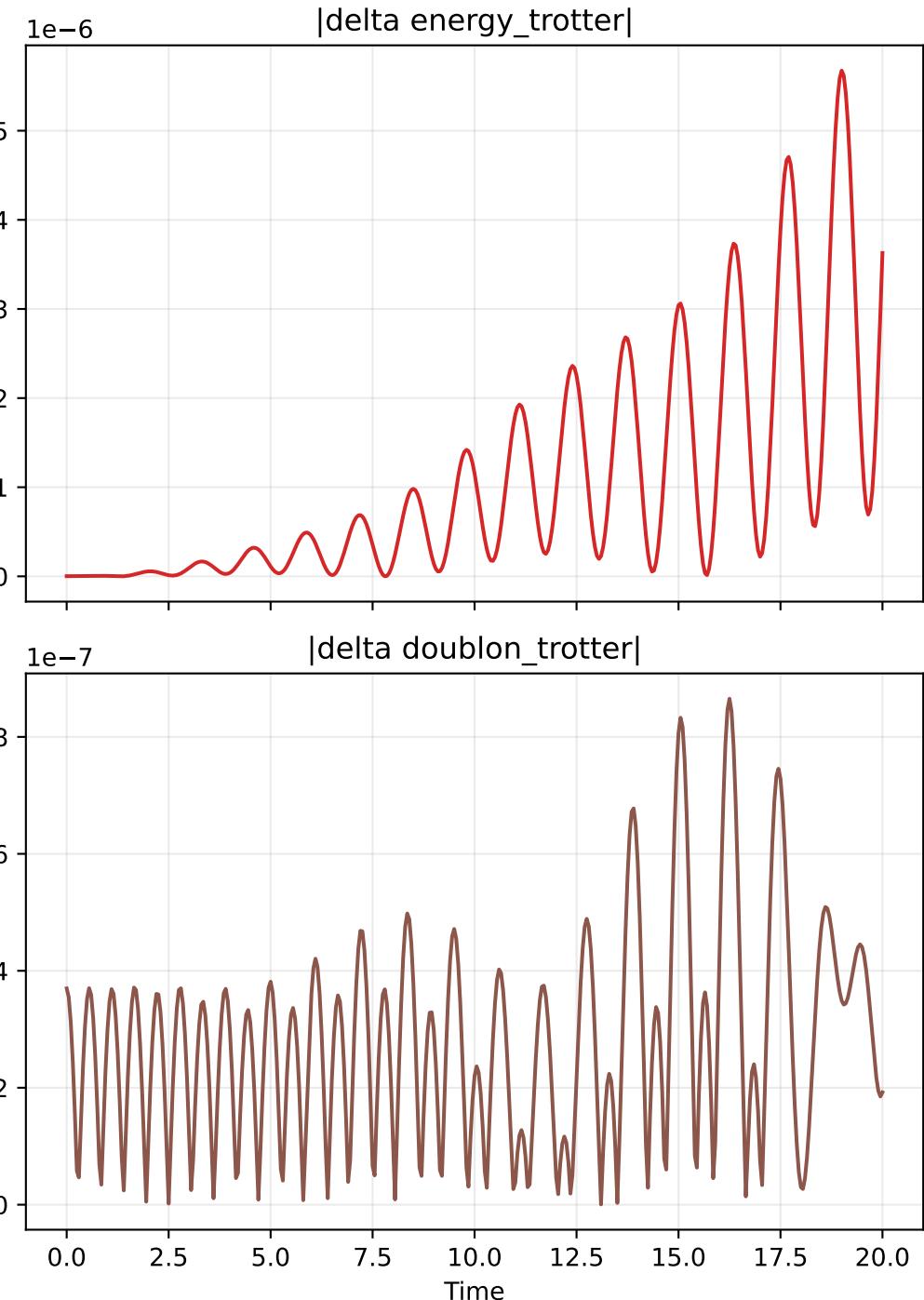
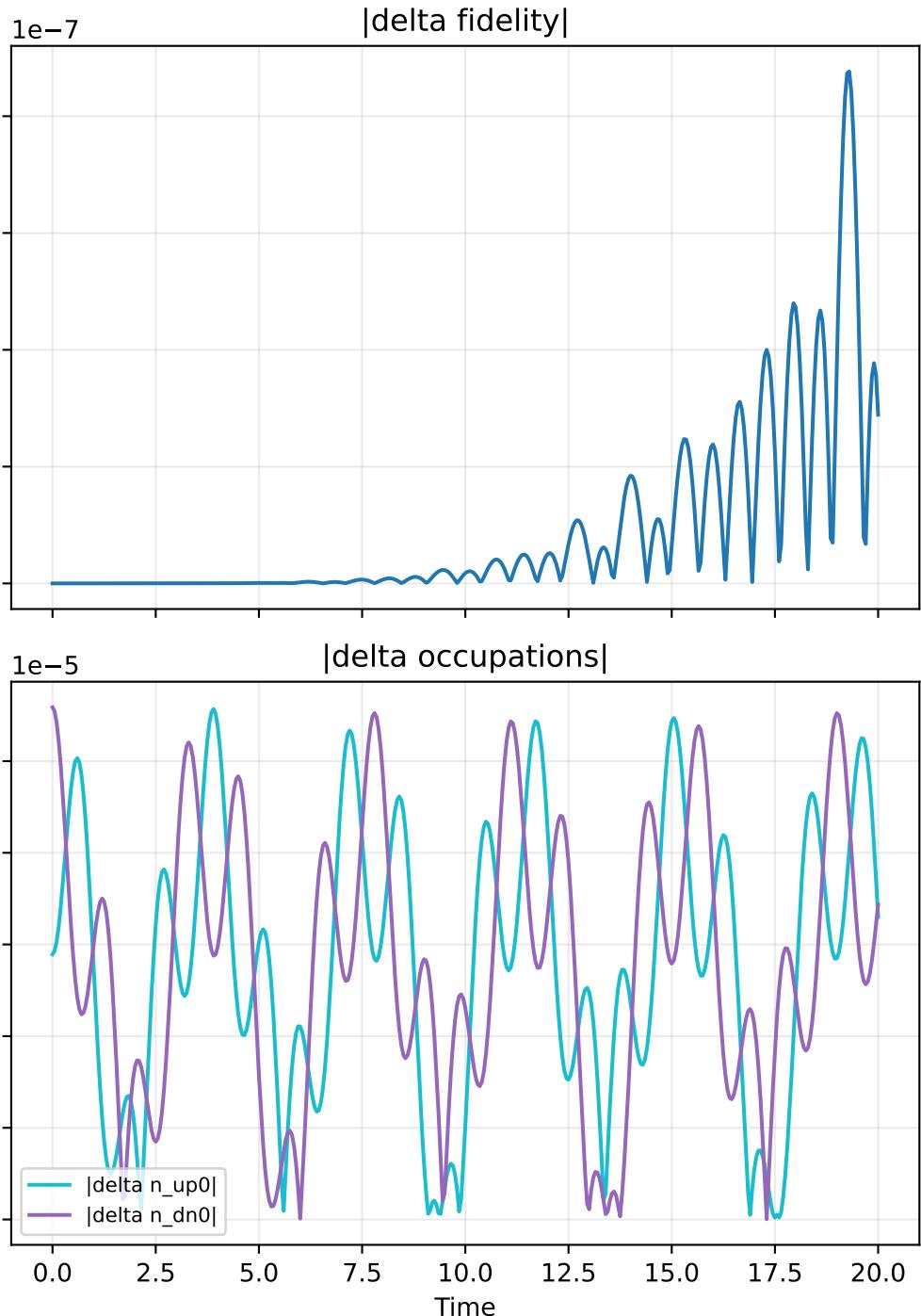
Site-0 Occupations



Doublon



Delta Diagnostics L=2



```
L=2 metrics summary
```

```
ground_state_energy_abs_delta = 0.0
fidelity max/mean/final = 4.382844408512554e-07 / 4.2841142749426606e-08 / 1.4439022710810434e-07
energy_trotter max/mean/final = 5.674404944255862e-06 / 1.0264816760301597e-06 / 3.6278412992585274e-06
n_up_site0_trotter max/mean/final = 2.7840437910264804e-05 / 1.4056357506818028e-05 / 1.649905140760355e-05
n_dn_site0_trotter max/mean/final = 2.7934482115687942e-05 / 1.4036247784740531e-05 / 1.7175327371998783e-05
doublon_trotter max/mean/final = 8.652711593892803e-07 / 2.803166642322236e-07 / 1.9217693580930728e-07

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