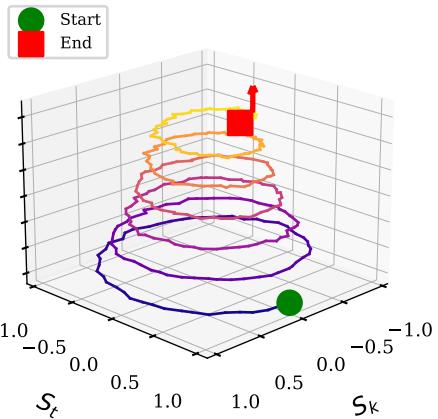
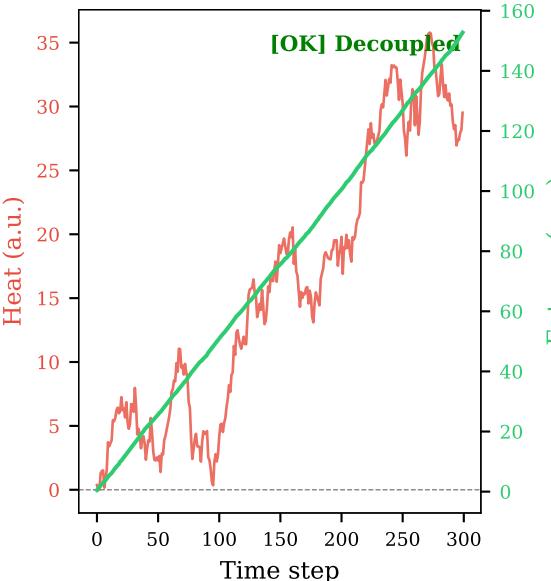


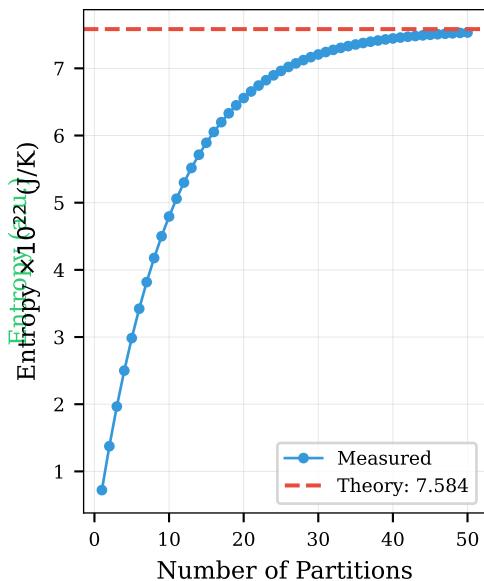
(a) Phase Space Trajectory
Entropy Monotonically Increases



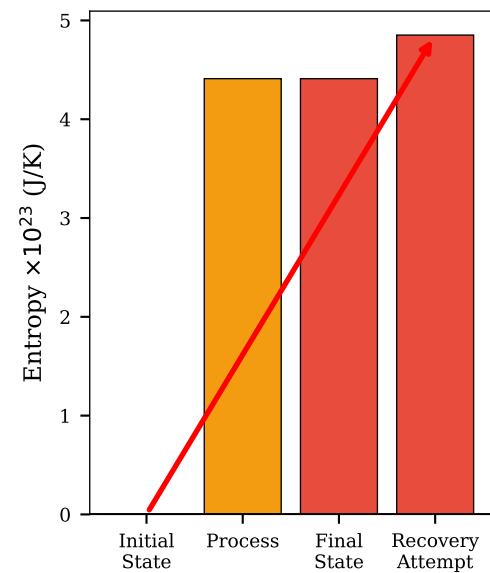
(b) Heat-Entropy Decoupling
Heat fluctuates, Entropy monotonic



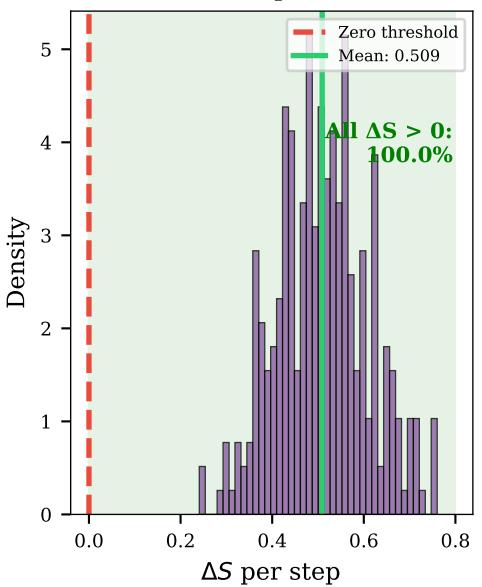
(c) Partition Lag Validation
Agreement: [OK]



(d) Irreversibility Test
State Recovered: [X]



(e) Second Law Verification
100.0% positive



(f) Demon vs Aperture
Critical Distinction

