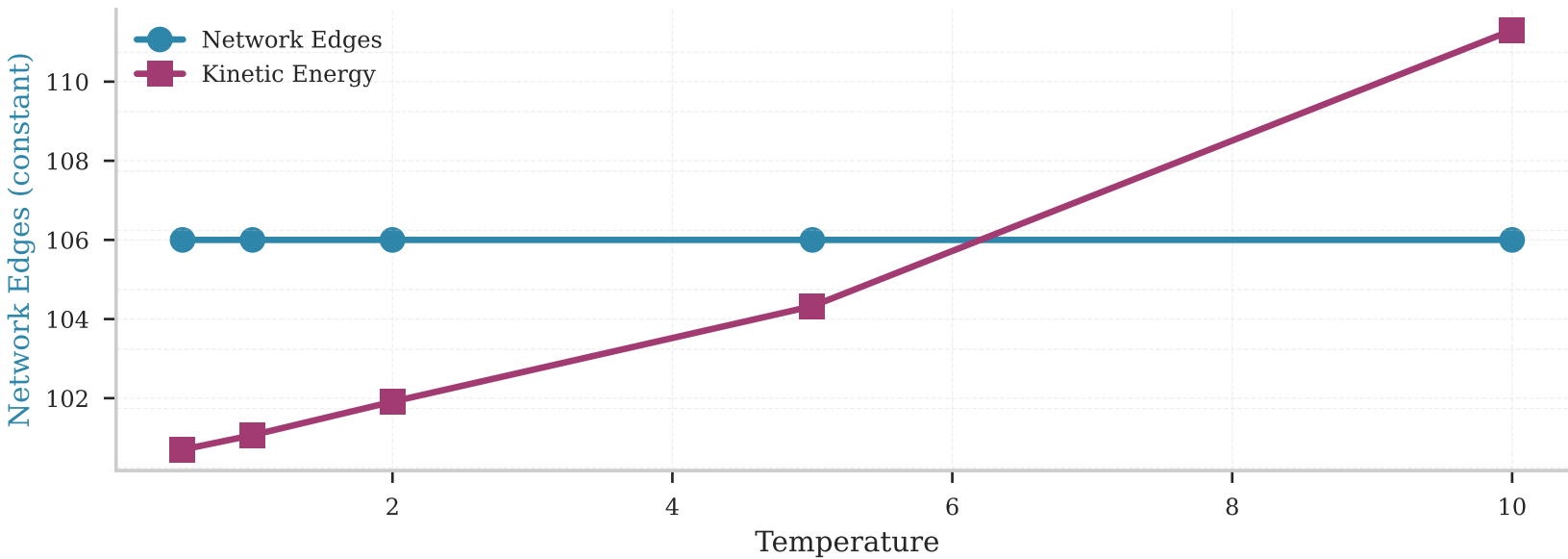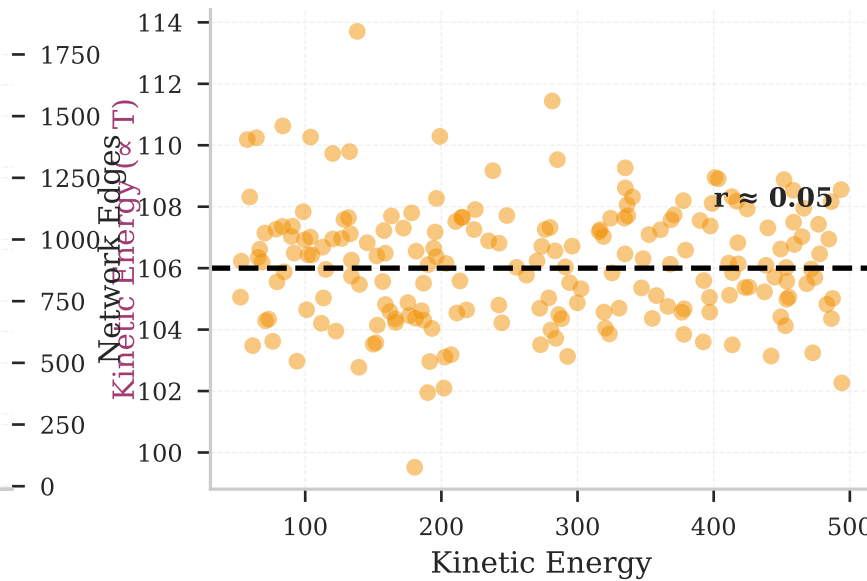**Maxwell's Demon Resolution: Seven-Fold Dissolution**
Phase-Lock Network Topology and Categorical Completion
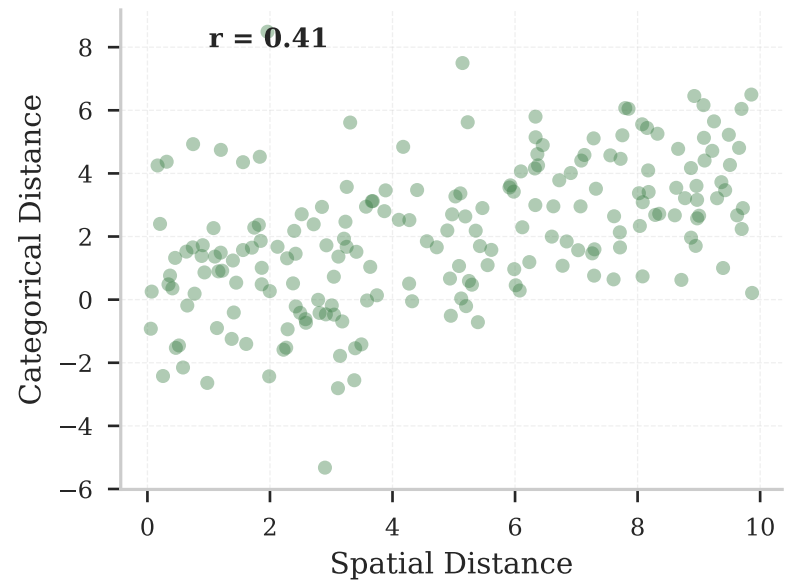
A. Temperature Independence: $\partial G/\partial T = 0$
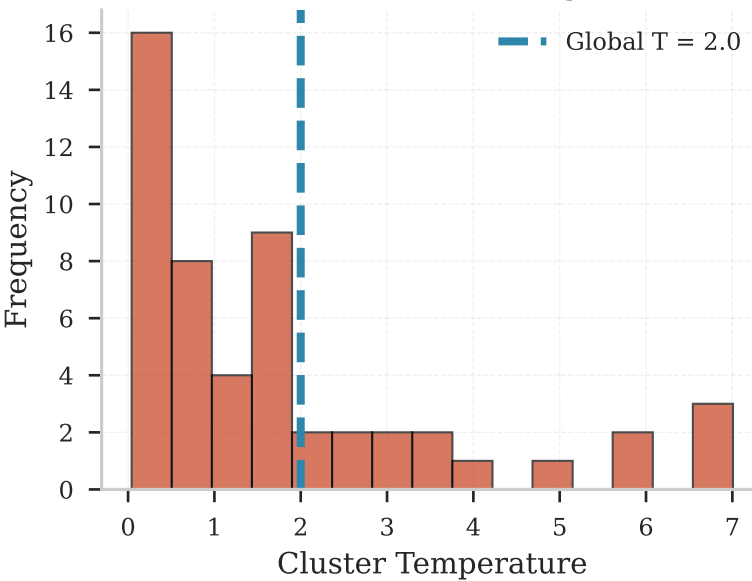
- Network Edges
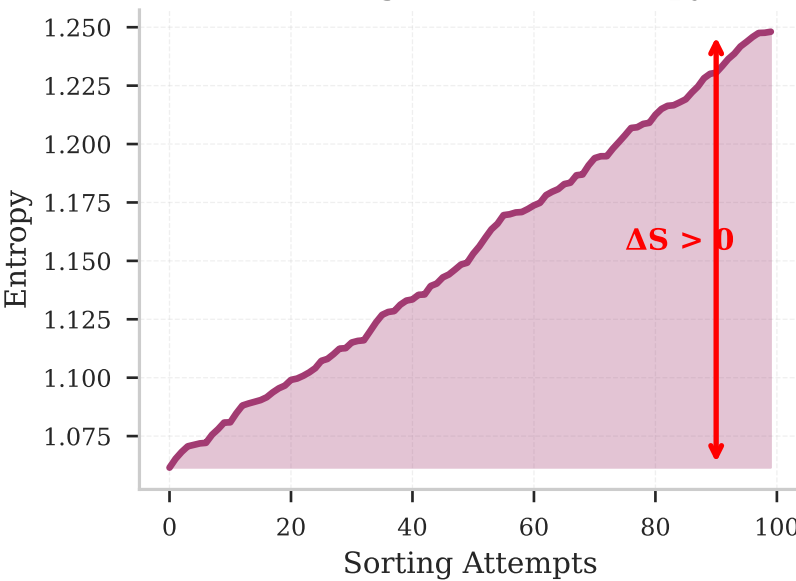- Kinetic Energy

B. Kinetic Independence

$r \approx 0.05$

C. Distance Metrics

$r = 0.41$

D. Temperature Emergence

- - - Global T = 2.0

E. Sorting Increases Entropy

$\Delta S > 0$

F. Velocity-Blind Completion

100% paths identical

G. Information Complementarity

KINETIC FACE
- Velocities
- Kinetic Energy
- Temperature
- Speed dist.

Hidden: Network topology

⊥

CATEGORICAL FACE
- Phase-lock network
- Network topology
- Cat. distances
- Cluster structure

Cannot observe both faces simultaneously
(like ammeter/voltmeter incompatibility)

Maxwell saw ONLY kinetic face → "Demon" = shadow of hidden categorical dynamics