Ising Model: Critical Temperature Increases with Dimension
Physical Explanation: Higher dimensions = more neighbors = stronger cooperation

Critical Temperature (Tc) increases with dimension:
• 1D: Tc = 0 (no phase transition)
• 2D: Tc ≈ 2.269 (Onsager exact solution)
• 3D: Tc ≈ 4.511 (numerical calculation)
• 4D: Tc ≈ 6.68 (mean field theory)

Why? Higher dimensions → more neighbors → stronger cooperation

Legend:
- 1D Simulated
- 2D Simulated
- 2D Tc≈2.269
- 3D Simulated
- 3D Tc≈4.511
- 4D Simulated
- 4D Tc≈6.680

x-axis: Temperature T
y-axis: |M|/N