Information ≠ Dimension: Two Axes of Complexity

Y-axis: Information Rate (entropy production)
X-axis: Effective Dimension (geometric occupancy)

Pure Noise

Collapse

Low-D Chaos
(e.g., Lorenz)

Complex
Dynamics
(coherent chaos)

Dimension
Matching
Regime

High-D
Constrained
(thin manifold)

Fixed Point
(trivial)