

4.3 Collapse vs Fixation

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1 Collapse vs Fixation

This table compares two distinct outcomes of morphing behavior in Unified Configuration Theory: **collapse**, driven by contextual transition (e.g., quantum measurement), and **fixation**, driven by geometric saturation (e.g., Zeno stabilization).

Aspect	Collapse	Fixation
Trigger	Contextual boundary or measurement event	Persistent observation or curvature saturation
Morphing Behavior	Rapid transition between configurations	Suppressed morphing; configuration remains stable
Metric Dynamics	Tensor deformation toward collapse zone	Tensor equilibrium at curvature minimum
Topological Role	May cross bifurcation or phase boundary	Anchored within phase zone or invariant node
Visualization	Flow into collapse basin or boundary	Fixation at curvature well or symmetry lock
Interpretation	Quantum transition or decoherence	Zeno-like stabilization or phase lock
Reversibility	Often irreversible or probabilistic	Reversible within phase; stable under deformation
Contextual Dependence	Strong; collapse induced by context	Strong; fixation induced by context saturation

Table 1: Comparison between collapse and fixation behaviors in configuration space.