

6.2 Curvature-Driven Quantum Behavior

Dmytro Panasenko

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Unified Configuration Theory reframes quantum mechanics as a geometric theory, where curvature and morphing dynamics drive observed behaviors such as state transitions, superposition, and phase fixation.

Key principles include:

- **Curvature modulation** defines potential wells and transitional regions, guiding configuration flow.
- **Morphing flow** governs dynamic configuration evolution, constrained by curvature gradients and topological anchors.
- **Context-induced boundaries** collapse or stabilize phases based on geometric saturation and curvature thresholds.

This framework allows quantum behavior to be modeled as curvature-driven morphing within configuration space. It replaces probabilistic abstraction with reproducible geometric logic, enabling both theoretical insight and experimental prediction.

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Figure 1: Curvature-driven quantum behavior: morphing flow lines, phase zones, and collapse regions shaped by geometric gradients.