6.2 Experimental Anchors

Dmytro Panasenko

October 2025

1 Experimental Anchors

Unified Configuration Theory connects with the empirical domain through hall-mark quantum experiments. These experiments serve not only as validation points, but as geometric manifestations of configuration behavior.

Key phenomena include:

- Tunneling resonances in nanoscale systems modeled as morphing flow across curvature barriers.
- Phase interference patterns and contextual sensitivity explained via overlapping morphing trajectories and curvature modulation.
- Measurement probabilities and collapse statistics reframed as context-induced fixation or collapse within configuration space.

These effects serve as empirical benchmarks for validating and refining geometric intuitions. UCT provides a reproducible framework for interpreting experimental outcomes as configuration dynamics, enabling new predictions and guiding experimental design.