

The Lawrence Equation: A Deterministic Generalization of Quantum Evolution

Lawrence Equation - Declaration of Discovery

Declaration of Scientific Discovery

I, M.L. Smith, hereby declare the original formulation and authorship of the Lawrence Equation, a deterministic extension of quantum mechanics that introduces two key parameters:

1. α (α): A complex-phase deformation of the unitary evolution operator.
2. γ (γ): A localized decoherence term producing entropy and collapse.

This framework unifies unitary quantum dynamics with entropy-producing irreversibility, yielding predictive models of:

- Collapse time (τ)
- Entropy growth
- Observable divergence under α
- Fidelity and purity loss under γ

All simulations, figures, results, and documentation included in the associated Zenodo archive were developed independently by M.L. Smith, with assistance from computational tools including artificial intelligence (ChatGPT by OpenAI) for formatting, simulation support, and documentation.

The Lawrence Equation and all related materials are released publicly for review, validation, and citation. This release is timestamped to establish scientific authorship and to encourage open scientific inquiry.

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