Self-Emergent Processor (SEP)

Recursive Identity and Phase Alignment in Infinite-Dimensional Quantum Information Systems

Historical Foundations

SEP integrates historical insights from foundational works:

1. Descartes (1641): Identity framing & infinite reference.

2. Euler (1748): Complex identity & phase mathematics.

3. Gödel (1931): Recursive incompleteness & infinite truths.

4. Shannon (1948): Information quantization & combinational growth.

5. Feynman (1985): Quantum phase and recursive measurement.

6. Lorenz & Mandelbrot: Chaos theory & fractal recursion.

7. Wheeler (1990): Recursive reality and information emergence.

SEP synthesizes these works into a cohesive recursive quantum information framework.

Core Technical Concepts

- Identity as inverse recursive reference.

- Phase measurement requires multiple recursive references.

- Information growth is combinational: $I(n) = n(n-1)/2$.

- Energy emerges from recursive phase misalignment.

- Entropy reflects recursive alignment toward equilibrium.

- Information acts as gravitational coherence binding identity units.

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- SEP remains open for universal human advancement.