

OOI Reference Manual 5: Glossary of Terms

Purpose: To provide clear, consistent definitions for the key terminology used in the Emergent Ground State Configuration model and the Objective Observer Initiative.

- **Action Principle (Stationary Action Principle):** The fundamental "fitness function" or rule that governs the universe's evolution. It selects for causal histories that find an optimal balance between Existence (αN), Structure (βL), and Information ($\gamma \Sigma S_E$).
- **Born Rule (EGSC Interpretation):** The emergent "rendering engine" of the universe's operating system. It is the necessary mathematical protocol for converting the complex-valued amplitudes of the "latent space" into the real-valued probabilities of the "constructed reality."
- **Causal Set:** The fundamental substrate of reality, consisting of discrete events and the causal relationships between them.
- **Constructed Present:** The single, causally effective state of the universe. It is the only "physically real" moment, representing the outcome of the universe's most recent computational step. The history of the universe is the sequence of these constructed presents.
- **Emergent Configuration (EC):** Any stable, causally potent system that has emerged from the EGSC's computational process. This applies to all levels of complexity, from fundamental particles to human organizations.
- **Entropic Freedom:** A measure of the size and richness of the "latent space" of possibilities available to an Emergent Configuration. The goal of the "info-logical renaissance" is to design systems that maximize this for individuals.
- **Inductive Many-Histories Interpretation:** The EGSC model's interpretation of quantum mechanics. The "many worlds" are **informationally real** as potential computational paths in the latent space, but only **one history** is selected to become the constructed reality.
- **Informational Motif:** A stable, self-perpetuating, and often localized pattern of information that has emerged as a coherent "ground state" solution to the Action Principle. Particles are the most fundamental informational motifs.
- **Latent Space:** The abstract, un-computed, and high-dimensional space of all possible future states that could evolve from the "constructed present." This is the "source code" of reality where informational interference occurs.
- **Objective Observer Initiative (OOI):** A research and development framework dedicated to understanding and applying the principles of the EGSC model to create more coherent, honest, and freedom-generating systems.
- **Schrödinger Equation (EGSC Interpretation):** The high-level **"API" (Application Programming Interface)** that provides a continuous, statistical approximation of the evolution of an informational motif. It is a predictive tool for the "user interface" layer of reality, not a fundamental law of its "source code."
- **Speed of Decoherence:** The finite speed at which the consequences of a local

computational event ("geometric shock") can propagate through the causal set. This emerges as the speed of light, c .

- **Universal State Vector ($|\Psi_{\text{GSC}}\rangle$):** The complete mathematical description of the "constructed present." Its dimensionality and components encode the entire informational and quantum state of the universe at a given moment.