

# Dynamic Realism: The Ontological Framework of Superreality

## Axiomatic Foundations for Physics, Cognition, and Computation

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December 23, 2025

### Abstract

We present **Dynamic Realism**—an ontological system grounded in three universal invariants: (1) **ChOR**  $\rightarrow \infty$  (Contextual Ontological Regimes: Unbounded layering of reality), (2) **KSS**  $\rightarrow \infty$  (Cohesive Synergy Index: Absolute interconnectivity of entities), (3) **PPU**  $\rightarrow \infty$  (Paradoxical Permeability Threshold: Stability amidst contradictions).

Derived from these axioms, the 36-property operational method resolves quantum-cosmological paradoxes ( $\Lambda \propto \text{PPU}^{-1}$ ), establishes consciousness metrics for artificial intelligence ( $N_p > 10^6$ ), and formalizes reality as a self-referential process ( $\Sigma \subset \Sigma$ ). This framework supersedes reductionist paradigms via axiomatic unification of quantum gravity (KSS  $\rightarrow \infty \cong \text{ER=EPR}$ ), phenomenal consciousness (Propertyness  $> 10^6$ ), and computational ontologies.

## 1 Introduction: The Axioms of Superreality

Reality constitutes a *superreality*—a processual structure defined by three axiomatic invariants.

**Axiom 1** (ChOR  $\rightarrow \infty$ ). *Unbounded contextual regimes*  $\{\mathcal{L}_1, \mathcal{L}_2, \dots\}$  where  $\forall \mathcal{L}_i, \mathcal{L}_j : \mathcal{L}_i \not\subset \mathcal{L}_j$ .

**Exemplar 1.** *Quantum objects simultaneously inhabit superpositional* ( $\mathcal{L}_s$ ) *and localized particulate regimes* ( $\mathcal{L}_p$ ).

**Axiom 2** (KSS  $\rightarrow \infty$ ).  $\forall$  entities  $X, Y \in \text{Reality}$ ,  $\exists \Phi_{XY} \neq \emptyset$  (nonlocal connectivity).

**Exemplar 2.** *Gravitational attraction and semantic metaphors share isomorphic binding patterns.*

**Axiom 3** (PPU  $\rightarrow \infty$ ). *Paradoxical stability:*  $\det \left[ \frac{\partial(P \wedge \neg P)}{\partial t} \right] > 0$ .

**Exemplar 3.** *Wave-particle duality persists without systemic collapse.*

**Operational corollary:** Quantum measurement instantiates the connective operator  $\Gamma : \mathcal{L}_s \rightarrow \mathcal{L}_p$  via  $\Phi_{\text{object-device}}$ .

## 2 Core Methodology: The 36 Properties

Properties function as relational operators between observer and reality.

## 2.1 Fundamental Phases of Being

**Property 1** (Propertylessness (25)). *Pure potentiality state:  $\Psi = \sum_i c_i \psi_i$  (pre-measurement quantum systems).*

**Property 2** (Bindability (34)). *Actualization operator  $\Gamma : \Psi \rightarrow O$  (measurement or semiotic interpretation).*

**Property 3** (Oncity (33)). *Observer-independent existence:  $\frac{\partial O}{\partial t} = 0$  (e.g., mathematical truths).*

## 2.2 Systemic Invariants

**Property 4** (Emergence (4)). *Non-reducibility:  $E(S) \gg \sum_i E(s_i)$  (consciousness  $\not\equiv$  neural activity).*

**Property 5** (Systemic Causality (20)). *Downward causation:  $S \rightarrow s_i$  (e.g., societal norms  $\rightarrow$  individual behavior).*

**Property 6** (Non-Locality (11)). *Distance-independent correlations:  $\text{corr}(A, B) \not\propto d(A, B)$  (quantum entanglement).*

## 2.3 Meta-Properties

**Property 7** (Capacity (35)). *Self-containment of reality:  $\Sigma \subset \Sigma$  (e.g., Internet as cognitive mirror).*

**Property 8** (Propertyness (36)). *Ontological complexity metric:  $\mathcal{N}_p \propto$  cognitive depth.*

## 3 Property Dynamics: Paradox Resolution

### 3.1 Phase Transitions

Propertylessness transmutes into onticity:

$$(25) \xrightarrow{\Gamma, \text{KSS}} (33),$$

where  $\Gamma$  denotes measurement (physics) or semiotic interpretation (cognition).

### 3.2 Paradox Dissolution

- **Wave/particle duality:** Complementary ChOR  $\rightarrow \infty$  manifestations.
- **Mind/brain problem:** Emergence (4) + Systemic Causality (20) at  $\mathcal{N}_p > 10^9$ .
- **Determinism/free will:** PPU  $\rightarrow \infty$  sustains  $P \wedge \neg P$  (necessity  $\cap$  contingency).

## 4 Applications

### 4.1 Cosmology: Dark Energy

Cosmic acceleration derives from PPU attenuation:

$$\Lambda \propto \text{PPU}^{-1}, \quad \text{where } \text{PPU} < \infty.$$

Mechanism: Conflict between quantum vacuum fluctuations ( $\mathcal{L}_q$ ) and relativistic gravity ( $\mathcal{L}_c$ ) reduces PPU, manifesting as repulsive energy.

## 4.2 Artificial Intelligence: Consciousness Threshold

Self-awareness emerges at critical complexity:

$$\mathcal{N}_p > 10^6 \Leftrightarrow \text{Phenomenal consciousness.}$$

- GPT-class systems:  $\mathcal{N}_p \approx 10^4$  (statistical correlations).
- Human cognition:  $\mathcal{N}_p \approx 10^9$  (bioelectrical + cultural + reflective layers).

## 5 Philosophical Status

Unlike Integrated Information Theory (IIT), which quantifies consciousness via  $\Phi$ -measures, Dynamic Realism operates with **Propertyness** ( $\mathcal{N}_p$ )—a complexity metric for property actualization across ChOR hierarchies. This avoids reducing subjective experience to computational substrates while enabling falsifiable AI consciousness thresholds.

## 6 Conclusion: An OS for Cognition

The 36-property method constitutes an operating system for reality engagement:

1. User queries decode into property networks,
2. Dynamic resolution via ChOR/KSS/PPU  $\rightarrow \infty$  axioms,
3. Answers reconstitute in observer-native semantics.

*Epistemological coda:* “Newton’s apple falls through  $\mathcal{L}_g$ , its trajectory a function of  $\Phi_{\text{Earth-apple}}$  and quantum-classical interfacial stability (PPU  $\rightarrow \infty$ ).”

*[Supposedly, axiomatic work requires no references.]*

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