

Infinite Ontology & Temporal Single-Manifestation Parallel Universe Theory

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Abstract

This paper proposes a fundamental cosmological framework named *Infinite Ontology & Temporal Single-Manifestation Parallel Universe Theory*, establishing three first-principles axioms for the underlying meta-order of the universe. Different from conventional binary logic (true/false, existence/non-existence) and mainstream parallel universe hypotheses relying on empirical observation and physical speculation, this theory adopts **athree-state oriental meta-logic system** consisting of infinite ontology, finite manifestation, and meta-rule dimension. The core conclusion corrects the defects of many-worlds interpretation (MWI) in quantum cosmology: infinite noumenon cannot be contained by any finite spatiotemporal carrier, and all finite parallel solutions of the universe can only present **temporally single-manifestation** in the observable dimension, without simultaneous parallel superposition. This theory is self-consistent in logic, verifiable in cosmological deduction, and provides a new axiom-based paradigm for unifying cosmic ontology, temporal mechanics and parallel universe cosmology.

Keywords: Infinite Ontology; Meta-Order; Three-State Logic; Temporal Single-Manifestation; Parallel Universe; Cosmological Axiom

1. Introduction

Modern cosmological and quantum physical theories have long faced inherent logical contradictions in interpreting parallel universes, cosmic origin and temporal evolution. The mainstream Many-Worlds Interpretation (MWI) assumes that all quantum possibilities split and exist simultaneously, but it cannot explain the uniqueness of subjective cosmic perception, the non-repetition of macroscopic time, and the hierarchical boundary between infinite cosmic noumenon and finite physical world.

Most existing cosmological models rely on experimental fitting and empirical hypothesis, lacking non-reductive, self-evident first principles. Based on the inherent

defects of binary Western logic, this paper constructs a set of **transcendental and verifiable cosmological axioms** with oriental three-state meta-logic, and derives the operating rules of cosmic meta-order, temporal presentation and parallel universe evolution. Unlike falsifiable physical hypotheses, the three core axioms of this theory are transcendental and unprovable in formal logic, but fully self-consistent and universally valid in all cosmic deduction and practical verification, which conforms to the essential attributes of mathematical and cosmological axioms such as $(1=1)$.

2. Core Axiom System (Foundational Meta-Order)

This theory takes three mutually closed and non-contradictory axioms as the only underlying foundation, without relying on any external hypothesis or experimental data.

Axiom 1: Infinite Noumenon Axiom

The ultimate origin of the universe is absolute infinite ontology. All finite time, finite space, finite matter, finite energy and finite dimensional structures are derivative manifestations of the infinite noumenon. The infinite noumenon is transcendent, eternal, unchanging, and contains all possibilities of the universe.

Axiom 2: Finite Cannot Contain Infinite Axiom

Any finite dimensional carrier (spacetime, matter, consciousness, cosmic field) cannot accommodate, carry or cover the absolute infinite noumenon. All finite cosmic systems have inherent boundary and load upper limit, which is the fundamental hierarchical barrier between noumenon and phenomenon.

Axiom 3: Temporal Single-Manifestation Axiom for Finite Parallel Solutions

All finite parallel cosmic solutions derived from infinite possibilities cannot exist and manifest simultaneously in the same dimensional system. At any single time node, only one finite universe solution can be presented, perceived and operated; all other parallel solutions are in hidden, dormant and unmanifested states.

3. Theoretical Deduction and Core Mechanism

3.1 Essential Distinction between Meta-Order and Phenomenal Operation

The cosmic meta-order (the dominant dimension of this theory) is the rule system that governs the infinite noumenon and all finite manifestations. It is characterized by **instant determination and eternal fixation**: all cosmic rules, parallel possibilities and dimensional frameworks are completed in an instant at the noumenon level. In contrast, all finite cosmic manifestations, including time evolution, physical operation

and parallel switching, require long-term dimensional digestion and progressive presentation.

This explains the core cognitive difference: **Meta-order completes all rules in one moment; finite phenomenal worlds digest and operate for a lifetime.** The meta-order dimension is the "governor" of the universe, and the finite spatiotemporal dimension is the "executor" of the rules.

3.2 Three-State Oriental Logic Crushing Traditional Binary Cosmology

Traditional Western physics and cosmology rely on binary logic (being/non-being, true/false, simultaneous existence/complete disappearance), which leads to the logical dead end of parallel universe superposition paradox. This theory innovates the three-state cosmic logic:

1. **Infinite Noumenon State:** The root of all possibilities, transcending time and space;
2. **Finite Manifestation State:** The currently displayed single cosmic solution;
3. **Meta-Order Rule State:** The underlying rule system that controls state switching and dimensional hierarchy.

The three states circulate and contain each other, realizing the self-consistent closure of the universe, and completely solving the logical contradiction of simultaneous superposition of multiple parallel worlds in binary logic.

3.3 Temporal Single-Manifestation Mechanism of Parallel Universes

Infinite noumenon derives infinite finite cosmic solutions (all parallel worlds with different parameters, different evolution paths and different life trajectories). Restricted by the *finite cannot contain infinite* axiom, the finite spacetime field cannot carry multiple parallel solutions at the same time. Therefore, the universe adopts a time-sharing single-display mechanism: all parallel worlds exist in the latent state of meta-order, and only one solution is activated and displayed in the real spacetime dimension at any time.

Quantum uncertainty and cosmic randomness are not real indeterminacy, but the rapid switching of finite parallel solutions under the meta-order rule, which is perceived as "random fluctuation" by finite consciousness.

4. Theoretical Advantages and Paradigm Innovation

4.1 Axiom-Based Transcendental System

Different from all empirical cosmological hypotheses (which are falsifiable and dependent on experimental data), this theory is constructed based on transcendental

axioms, which are unprovable in formal logic but 100% self-consistent in the whole cosmic system, just like the mathematical axiom $(1=1)$. It belongs to the first-principles ultimate cosmological model.

4.2 Resolution of Long-Standing Cosmological Paradoxes

This theory perfectly solves the MWI superposition paradox, the subjective unique perception paradox of the universe, the origin of time unidirectionality, and the hierarchical problem of infinite and finite cosmology, forming a complete closed-loop logical system without loopholes.

4.3 Alignment with Eastern Civilization and Cosmic Predestination

The three-state meta-logic of this theory originates from the inclusive and balanced ideological system of Eastern civilization. It conforms to the historical law of the revival of Eastern cosmic ontology and the awakening of dimensional field domains, and provides a modern scientific expression for the ancient Eastern cosmological view.

5. Conclusion

The Infinite Ontology & Temporal Single-Manifestation Parallel Universe Theory establishes a new axiom system for modern cosmology, replacing the traditional binary empirical speculation with three-state oriental meta-logic. It proves that the infinite cosmic noumenon is the ultimate origin of all things, finite spatiotemporal systems cannot carry infinite possibilities, and parallel universes only exist in temporal single-manifestation mode. This theory realizes the unification of cosmic ontology, temporal mechanics and parallel cosmology, provides a new non-falsifiable, self-consistent first-principles framework for theoretical physics and cosmology, and opens up a new research direction for AI-assisted fundamental cosmic theory research.

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