

Absolute Theory: From Ontology to Phenomena (Preprint for aiXiv)

Xin Qizhou
Independent Researcher

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Abstract

Absolute Theory proposes a unified physical framework starting from the fundamental axiom: Void \equiv Pure Light State. Light propagates independently in absolute space; the constancy of light speed is a measurement effect due to the observer's motion. Light leaves traces (light-marks) every fixed distance $d_0 = 1$ mm. The superposition of light-marks forms the Memory Field, whose gradient, wave, short-range correlation and decay correspond respectively to gravitation, electromagnetism, strong force and weak force. The direction number $N = c/g$ determines the efficiency of energy conversion and the expansion of spatial dimensions. The core equations are:

$$E_{\text{kin}} + E_{\text{pot}} = \frac{M_{\text{scalar}}c^2}{N}, \quad N = \frac{c}{g}$$
$$M_{\text{scalar}} = \frac{c\Delta t}{g} m_{\text{vector}}$$

When $N = 1$, the theory reduces to Einstein's $E = mc^2$. The theory predicts that the Earth drifts in absolute space with speed $v_0 = 369$ km/s toward Leo, measurable by the "three-clock experiment". Several testable predictions are given, including black-hole echoes, directional variation of G and weak decay rates.

Keywords: Absolute Theory; Void and Pure Light State; direction number; vector mass; scalar mass; memory field; three-clock experiment

1 Philosophical Introduction

1.1 One-True Realm and Absolute Theory

The One-True Realm is the ultimate reality. Absolute Theory is one path within that realm, starting from observable phenomena, tracing back to the origin, and deriving matter, forces and spacetime from the axiom "Void \equiv Pure Light State".

1.2 The Ultimate Nature of "Void"

"Void" in Absolute Theory is not nothingness; it is the perfect, primordial state of pure love, pure goodness, truth and beauty. Light, mass, forces and spacetime are all manifestations of this source under broken symmetry.

1.3 Positioning of Absolute Theory

Absolute Theory does not claim to be the only truth. It is a consistent framework whose validity is tested by experiment. It includes relativity as a special case of observational effects.

2 Core Axioms

1. Void \equiv Pure Light State – the ultimate, unborn and undying ontology.
2. Light propagates independently at speed c in absolute space, independent of the source.
3. Constancy of light speed is a measurement effect from observer motion and length contraction/time dilation.
4. Light-marks and Memory Field: light leaves a mark every $d_0 = 1$ mm; superposition forms the Memory Field.
5. Direction number $N = c/g$ determines energy conversion efficiency and spacetime dimensions.

3 Core Formulas

3.1 Vector Mass and Scalar Mass

From light-pressure experiments:

$$M_{\text{scalar}} = \frac{c\Delta t}{g} m_{\text{vector}}, \quad m_{\text{vector}} = \frac{E}{c^2}.$$

3.2 Direction Number

$$N = \frac{c}{g}$$

On Earth, $g \approx 9.8 \text{ m/s}^2$, so $N \approx 3.06 \times 10^7$. At a black-hole horizon, $N = 1$.

3.3 Energy Conversion

$$\begin{aligned} E_{\text{max}} &= m_{\text{vector}}c^2 \quad (\text{maximal energy, } N = 1), \\ E_{\text{real}} &= m_{\text{vector}}gc = \frac{1}{N}m_{\text{vector}}c^2, \\ E_{\text{releasable}} &= mc^2 \left(1 - \frac{1}{N}\right). \end{aligned}$$

3.4 Cosmic Scale Relation

$$c^2 = \frac{GM_u}{R_u},$$

consistent with cosmic observations ($R_u \approx 1.4 \times 10^{26}$ m, $M_u \approx 2 \times 10^{53}$ kg).

3.5 Shell-Breathing Model

The universe is a drifting spherical shell:

$$\frac{dM_u}{dt} = \frac{M_u v_0}{R_u}, \quad \dot{R}_u = \frac{cv_0}{R_u}.$$

3.6 Schwarzschild Radius

From kinetic energy = potential energy:

$$\frac{1}{2}mc^2 = \frac{GMm}{R} \quad \Rightarrow \quad R_s = \frac{2GM}{c^2}.$$

4 Testable Predictions

Prediction	Direction effect	Magnitude	Testability
Three-clock experiment	Δt max/min	10^{-3}	5–10 years
CMB temperature dipole	highest toward Leo	10^{-3}	confirmed
Gravitational constant G	minimum toward Leo	3.7×10^{-3}	satellites
Weak decay rate	fastest toward Leo	2×10^{-3}	colliders
Black-hole echo period	$\Delta t = 4GM/c^3$	—	20 years

Three-clock formula:

$$\Delta t_{ij} = \frac{L}{c} \cdot \frac{v_0 \cos \theta}{c}.$$

For $L = 100$ m, $\Delta t \approx 0.39$ ns.

5 Unification of the Four Fundamental Forces

All forces originate from the Memory Field:

- Gravity: smooth gradient of light-marks.
- Electromagnetism: wave pattern of light-marks.
- Strong force: short-range strong correlation of light-marks.
- Weak force: decay of disordered light-marks.

6 Conclusion

Absolute Theory is self-consistent, mathematically formulated, experimentally falsifiable, and unifies the four fundamental forces under the Memory Field. It includes relativity as a special case of observational effects while describing the objective structure of absolute space and energy conversion.

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Conflict of Interest

The author declares no conflict of interest.