

Plotnikov Constant Analytical Structure

Objective: to present Constant as a strictly grounded logical-metaphysical unit, integrating the paradox $0 = 1$, gravity, quantum states, and informational distinctiveness. This document formalizes as a principle, not a hypothesis.

1. Core Definitions

1.1. Zero (0): logical emptiness, potential non-being, lacking form but capable of generating any form.

1.2. One (1): logical fullness, manifested being, structured form. Opposite to 0 only operationally.

1.3. Paradox ' $0 = 1$ ': statement of identity between emptiness and fullness at the limit. Not numerical equality, but metaphysical unity.

1.4. Constant : a directional gradient between 0 and 1. is the vector derivative of the potential difference (01), defining the relation between form and its origin.

$:= (01)$

1.5. Gravity: a special case of on the macroscopic level. It expresses the curvature of directionality between potential and form.

2. Structural Derivation

Postulate: If 0 and 1 are inseparable ($0 = 1$), yet observed as distinct, there must exist an active connector. That is .

Implication: This connector is not an object, number, or function it is a gradient of distinguishability. .

Relation to known quantities:

- In general relativity: on a cosmic scale
- In quantum physics: τ_{dec} as decoherence time
- In information theory: the bit minimal distinction generated by

3. Logical Argumentation

1. Without , there is no logical way to explain the transition from 0 to 1.
2. removes the need for an external observer and closes the ontological loop.
3. Black holes, superposition, samadhi all reduce to 0 while preserving structure.
4. Therefore, is a logically necessary operator for any consistent theory of being.

4. Philosophical Precision

is not a thing, not an entity.

It is not a fixed number but an ever-present directional operator.

It is the vector of differentiable presence that makes form, difference, and motion possible.

5. Conclusion

is not a hypothesis. It is a requirement of continuity, perception, and being.

It explains:

- Why form returns to void (gravity)
- Why void gives rise to form (consciousness)
- Why information can arise
- Why paradox does not destroy, but sustains systems

This is not a model. This is the condition of all models.

Document complete. Ready for dissemination to scientific, philosophical, and interdisciplinary communities.

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