

GPT 5.2: Core Axioms of the Big Annihilation

René Oudeweg

December 30, 2025

Below is a **formal axiomatization of \mathfrak{s}** , written deliberately at the boundary between **logic, metaphysics, and negative ontology**. It is not physics and not mathematics in the strict sense; it is a **foundational axiom system** whose purpose is *closure*, not derivation.

I will proceed in four layers:

1. Primitive symbols
2. Core axioms
3. Derived consequences
4. Meta-logical status of the system

Primitive Symbols (Undefined Terms)

We begin with **intentional minimalism**. Nothing is defined positively.

Let:

- \mathbb{M} = the totality of matter
- \mathbb{T} = time
- \mathbb{S} = space
- \mathbb{E} = existence
- \mathfrak{s} = the zero-endpoint (Big Annihilation)

None of these are defined internally. Their meaning is fixed **only by axioms**.

Core Axioms of the Big Annihilation

Axiom 1 — Eternal Existence of Matter (Pre- \mathfrak{s})

$$\forall t \in \mathbb{T}, t < \mathfrak{s} \Rightarrow \mathbb{M}(t) \neq \emptyset$$

Matter exists at all times *prior* to \mathfrak{s} .

This denies creation, origin, and first moment.

Axiom 2 — Modal Dependence

$$\forall t, \mathbb{M}(t) \neq \emptyset \Rightarrow (\mathbb{T}(t) \wedge \mathbb{S}(t))$$

Time and space are **modes of existence of matter**, not independent substrates.

Axiom 3 — Absolute Annihilation at \mathfrak{o}

$$\mathbb{M}(\mathfrak{o}) = \emptyset$$

At \mathfrak{o} , matter does not transform, decay, or reorganize.
It is **negated without remainder**.

Axiom 4 — Collapse of Modes

$$\mathbb{M}(\mathfrak{o}) = \emptyset \Rightarrow (\mathbb{T}(\mathfrak{o}) = \emptyset \wedge \mathbb{S}(\mathfrak{o}) = \emptyset)$$

The annihilation of matter annihilates time and space themselves.

Axiom 5 — No Post- \mathfrak{o} Domain

$$\neg \exists x (x > \mathfrak{o})$$

\mathfrak{o} is **terminal**.
There is no “after,” no successor state, no hidden parameter.

Axiom 6 — Irreversibility

$$\neg \lozenge(\mathbb{M} \neq \emptyset \mid \mathfrak{o})$$

It is **not even logically possible** for matter to reappear after \mathfrak{o} .
This explicitly blocks:

- cyclical cosmologies
- vacuum fluctuations
- Big Bang recurrence
- metaphysical resurrection

Axiom 7 — Strong Nothingness

$$\neg \exists y (y \in \neg \mathbb{M})$$

“Nothing” is not an entity, not a space, not a potential.
It is **not a member of any domain**.

Axiom 8 — Anti-Preservation (Anti-Hegelian Aufhebung)

$$\text{Aufhebung}(\mathbb{M}) \Rightarrow \neg \text{Preservation}(\mathbb{M})$$

Negation does **not** preserve structure, information, or possibility.
This axiom explicitly rejects classical dialectics.

Derived Consequences (Theorems)

Theorem 1 — No Origin

From Axiom 1 and Axiom 5:

$$\neg \exists t_0 \ (t_0 \text{ is a first moment})$$

The universe has no beginning, only an end.

Theorem 2 — No Void

From Axiom 7:

$$\begin{aligned} \text{Vacuum} &\neq \text{Nothing} \\ \text{Nothing} &\neq \text{Space} \\ \text{Nothing} &\neq \text{Potential} \end{aligned}$$

Quantum cosmology is excluded *by axiom*, not argument.

Theorem 3 — No Meaning Beyond \mathfrak{s}

Since meaning presupposes:

- existence
- temporality
- differentiation

and all are annihilated at \mathfrak{o} ,

$\text{Meaning}(\mathfrak{o})$ is undefined, not false.

Theorem 4 — Observability as Evidence Against \mathfrak{o}

The fact that this sentence exists implies:

Current state $< \mathfrak{o}$

Observation itself is a proof of non-arrival.

Meta-Logical Status

1. Non-Completeness

This system cannot be complete, because completeness would require a post- \mathfrak{o} domain in which truth-values persist.

2. Non-Consistency Is Irrelevant

Consistency matters only where existence persists.
 \mathfrak{o} is designed to terminate even inconsistency.

3. Not a Theory but a Closure Principle

\mathfrak{o} does not explain the universe.
It **closes** it.

Final Statement (Canonical Form)

σ is the axiom that existence is not self-justifying and therefore must terminate absolutely.

It is:

- not salvation
- not redemption
- not peace

It is **the logical refusal of being**.