

# Plancktonian Protophysics

$\mathcal{S}_0$

## Protocosmic Substrate, Substrate Zero:

**The protocosmic informational substrate:** the pre-geometric, pre-energetic, pre-causal ground from which event-structure, observer-moments, and emergent geometry arise.  $\mathcal{S}_0$  encodes the admissible informational configurations that constrain all possible histories, and its fossilized residues manifest as the dark-sector remnants (the “dark duo”) — the phenomenological signatures attributed to dark matter and dark energy within the current cosmic cycle.

### 0. [ $(\mathcal{S}_0)=Zo-$ ] ( $\mathcal{S}_0$ Root Prefix)

Symbol:  $\mathcal{S}_0$

Name: Zo-

Pronunciation: “Zoh” (Z + long O)

Category: Root morpheme for substrate-level entities

#### Definition:

Zo- is the canonical phonetic and morphological prefix denoting direct relation to the protocosmic informational substrate  $\mathcal{S}_0$ . It marks any term as belonging to the pre-geometric, pre-energetic, pre-causal domain of the substrate itself, rather than to emergent physics.

#### Function:

- Establishes a linguistic boundary between substrate primitives and emergent constructs.
  - Prevents semantic drift by giving  $\mathcal{S}_0$  a phonetic anchor.
- Provides a productive prefix for naming substrate-level structures without importing downstream physics.
- Serves as the head of the substrate lexicon, from which all other substrate terms inherit.

### **Usage:**

- “**Zo-structures**” refers to any admissible configuration within  $\mathcal{S}_0$ .
- “**Zo-modes**” denotes substrate-level informational modes.
- “**Zo-operators**” are transformations defined on  $\mathcal{S}_0$  prior to quantization.
  - “**Zo-isotopes**” become the substrate’s stability classes.

### **Rationale:**

**Zo-** gives  $\mathcal{S}_0$  a speakable identity without anthropomorphizing it.

**It is short, phonotactically clean, and semantically empty enough to avoid contamination from existing physics, while still carrying the “zero-origin” resonance of  $\mathcal{S}_0$ .**

### **Placement:**

**This prefix belongs at the very top of the substrate-aspects list, because it is the morphological generator for the entire vocabulary of the protocosmic domain.**

The proposition for the new field of study specifically developed to resolve issues the other fields do not, and cannot, directly address — the protocosmic substrate conditions, criteria, and Foundational Unknowns  $\alpha$ ,  $\beta$ , and  $\gamma$  at the earliest moment of this current cycle of an ever-evolving cosmic event/structure.

This field will be focused on the tiniest segment of our current known cosmological model at the very beginning origins point(s) – from the Whitehole Boundary through the final stage(s) of the cannibal collapse from which this current cosmic cycle emerged, the interval currently referred to as the ‘Planck Epoch’, not a moment beyond the CMB horizon, clear of the preexisting, downstream fields of study.

### **Primary Foundational Tenets:**

0.) ALL Matter and Energy are forms of information; only information can be conserved (all or in part) and preserved in and through cyclic transitions, forming the foundational substrate from one cycle into the next. Substrate is the protostructure; the “cosmological” ‘RNA’ inherited from one cosmic iteration into the next.

1.) The Universe has both edges and boundaries; the initial boundary is the Whitehole Boundary which preexisted the Planck Epoch initiation, and is the beginning point of Protophysics in this current cosmic cycle.

2.) “Dark Matter/Energy” do not and cannot be found in this cycle because neither exist beyond being the fossilized remnants, leftovers from the previous cycle(s). Both began as, should retire as, placeholder terms to represent points of ignorance in current data models, and never were anything more than informational phantoms, and as such, P.P. fully rejects all premises for both. Our current universe is wholly complete in base content per the concepts of “missing” material aspects.

3.) The “Big Bang” is a myth – full stop: a. - it was a “public relations” phrase spun offhanded in a radio interview and never has any real relevance to the now defunct hypothesis; b. - ‘bang’ of any size is not what initially illuminated the CMB, that was the work of transitioning radiation; c. – the CMB illumination was not the ‘beginning’ of our turn of the Universe, it was the ending of the beginning.

4.) Infinities do not and cannot exist, while finite multiples/parallels can and likely do. “Infinity” is the result of incomplete or incorrect mathematics and can never be accepted as a final solution without solid proof to the contrary, not more inadequate mathematics, generated to support infinite infinities. That trap will not befall P.P.

#### 5.) Skeletonize the Language.

Minimize linguistic baggage; language must serve the architecture, not distort it. All terminology must be reduced to its structural minimum. Language must carry only

the information required for the ontology to function. No metaphor, anthropic framing, or legacy linguistic baggage is permitted.

#### 6.) The Phantom Protocol:

Locate-Isolate-Eradicate ALL Informational Phantoms, defined as:

“An informational phantom - the majority of which are mathematical - is any construct that arises from model failure, incomplete assumptions, or narrative inertia, and is subsequently mistaken for a physical entity or legitimate mathematical structure — thereby becoming entrenched pollution that contaminates equations, obscures clarity, and misdirects inquiry.”

#### 7.) Symbolic Pronunciation Integrity

In Protophysics, symbols must be pronounced according to their ontological category.

**Letters and numerals are not interchangeable;** any mispronunciation constitutes a category error.

- 0 (zero) is always read as zero, never as oh.
- O (capital letter O) is always read as oh, never as zero.
- $S_0$  is pronounced ess-zero, never ess-oh.
- $O_0$  is pronounced oh-zero, never oh-oh.
- O1M is pronounced oh-one-em, not zero-one-em.

#### Rationale:

Protophysics distinguishes substrate indices (numerical) from observer classes (alphabetic). Pronunciation must preserve this distinction to prevent semantic collapse.

The Cosmos we exist within—and as a particle of—came into being along a singular trajectory; it did not, obviously, arise in multiple, unique manners, to suit however many

contrary beliefs may be conjured up. The Universe wastes nothing; such a thing is not possible, for where would the waste go. Surplus within some systems is possible, or else asteroids and comets would not exist. The Universe embellishes nothing; embellishment is an anthropomorphic projection alone. While we are the Universe, the Universe is not “us.”

While we cannot rightly anthropomorphize the Cosmos, we can—and should—cosmologize humanity. We are not in any way separate from the Universe, no matter its true form or nature, and it matters not whether we realize this or not. We are *not* the only example of the Cosmos realizing itself through biology. Existence isn’t about meaning.

Existence is what the Universe is *doing*; *Life is but a sliver of this recursive event.*