Unobserved Malleable Variance Hypothesis

[U.M.V.H.]

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Informational Increase: [i.i.]

"In an informational cosmos, what appears as spatial expansion may be more accurately understood as the ongoing increase of legible structure." *

As a final element in the Plancktonian Protophysics foundation, this hypothesis proposes the following concept(s), explanation, and potential application:

Definition:

Unobserved Malleable Variance (U.M.V.) refers to the class of pre-legible substrate conditions that exist prior to, and independent of, any observer-moment capture. U.M.V. designates the domain of differentiable potential that has not yet been encoded, stabilized, or rendered into an observed moment. It is not "randomness," "noise," or "uncertainty" in the statistical sense; instead, it denotes the malleable, uncommitted variance inherent to the substrate before reflective distinction occurs.

U.M.V. is defined by (at least) three core properties:

1. Unobservedness — U.M.V. exists outside the observer graph. It has not been captured, recorded, or recursively stabilized into an observer moment. Its status is defined by the absence of reflective encoding, not by absence of structure.

2. Malleability — U.M.V. is not fixed into a determinate form. It is capable of being shaped, constrained, or collapsed into an observed moment, but it does not yet participate in any such commitment. Malleability here refers to pre-moment plasticity, not indeterminacy.

3. Variance — U.M.V. contains differentiable potential. It is a field of possible distinctions, not a uniform or featureless substrate. “Variance” signals structured difference without implying measurement, probability, or observer-dependent randomness.

In the broader architecture, U.M.V. designates the pre-moment domain of the substrate itself, prior to any mechanism of legibility, capture, or distinction. It refers to the substrate’s uncommitted variance — the malleable field of differentiable potential from which observed moments may eventually be carved. U.M.V. does not assume or imply any specific substrate mechanism, dynamics, or representational form; it functions as a minimal placeholder for the substrate’s capacity to support observation without asserting how that capacity is realized. By remaining substrate-agnostic, U.M.V. preserves the openness required for a field that seeks to describe the conditions preceding any observable structure.

[i.i.]*

Informational Increase (i.i.) — Property Definition

Informational Increase (i.i.) refers to the intrinsic property of the cosmos whereby the total quantity of legible structure increases over time. In an informational ontology, i.i. replaces geometric “expansion” as the fundamental descriptor of cosmic evolution. i.i. denotes the ongoing emergence, differentiation, and stabilization of new observer-compatible distinctions, independent of any spatial or metric interpretation.

i.i. is characterized by (at least) three minimal features:

1. **Substrate-Agnostic Growth** — i.i. does not assume any specific substrate mechanism. It describes the increase of legible information regardless of how the substrate realizes or encodes that information.

2. **Observer-Independent Accumulation** — i.i. occurs whether or not any observer captures or records the resulting distinctions. It is a property of the cosmos itself, not of any particular observer graph.

3. **Non-Geometric Evolution** — i.i. is not tied to spatial metrics, distances, or geometric frames. What appears as "expansion" in geometric models is reinterpreted as the downstream projection of informational increase into an emergent spatial representation.

As a property, i.i. provides the upstream explanatory role that "expansion" attempts to fill in geometric cosmology. It describes the continual growth of legible structure from the substrate's unobserved malleable variance (U.M.V.), forming the informational basis from which observer moments (O.M.) arise. i.i. thus functions as a foundational behavior of the cosmos within an informational ontology, framing cosmic evolution as the progressive increase of distinguishable, recordable structure rather than the stretching of spatial geometry.