

## Introduction

In previous theoretical discussions, we established two fundamental concepts about the universe: its **essence**, which is disappearance or forgetting, and its **self**, which is memory or appearance. Based on these two concepts, this paper introduces a third fundamental concept: **structure**. We believe structure is the medium through which the universe's essence and self become observable, and it is this structure that allows intelligent beings to perceive, understand, and describe the universe.

While previous sciences defined structure as a rigid, invariant framework, we propose that structure is dynamic, layered, and continuously changing across scales. A structure at one level is not identical to another at a different scale; rather, they are emergent and interconnected through a principle of **logical transformation**.

## The First Law of Structure

**When the distance, connection, or logic between the constituent units of a structure exceeds the critical limit required to form stable configurations, that structure's observable manifestation (its "apparent form") will disappear. Conversely, when constituent units once again reorganize into a stable configuration, the apparent form will reappear.**

This law applies to all structural levels of the universe. For instance:

- When **quanta** form stable configurations, they manifest as **atoms**.
- When **atoms** form stable configurations, they manifest as **molecules**.
- When **molecules** form stable configurations, they manifest as **matter**.

Each scale of manifestation—atom, molecule, matter—has its own "apparent form" and **unique structural logic**, but the transition between these levels is continuous and emergent, not discrete or artificially bounded.

## On Apparent Forms and Characteristics

An "apparent form" is not a static property but a consequence of structural logic. For example:

- The apparent form of an **atom** is a composite outcome of numerous **quantum-level configurations**.
- The apparent form of a **molecule** is a composite outcome of numerous **atomic-level configurations**.

Thus, the properties we observe at higher levels (atomic, molecular, material) are the **summation and expression of the structural logic** at lower levels. The moment these

logics no longer cohere—due to distance, decay, or disorder—the higher-level structure **vanishes**, not in space, but in its **recognizable identity**.

## On Continuity and Layered Transformation

We must emphasize: the universe does not possess fixed "levels" like quantum → atomic → molecular → material. These are **constructs of the intelligent mind**, invented to categorize the continuous transformation of structure.

The transitions between structural manifestations are **smooth, dynamic, and governed by internal logic**, not artificial boundaries. This continuity is what enables structures to emerge, transform, and disappear.

## Implications for Reality and Observation

Our perception of what "exists" is determined by what structures are **observable and logically coherent** at our level of intelligence and sensory capability. When a structure's internal units no longer form coherent logic, its **apparent form disappears**, and we say it "does not exist"—even though its constituent units may persist.

Thus, **existence is not binary**; it is a matter of **structural visibility and coherence**.

## Conclusion

The **First Law of Structure** provides a unified framework for understanding how complex systems—whether atoms, molecules, or galaxies—emerge and vanish through internal dynamics. This law does not depend on classical definitions of matter, energy, or space, but rather on the **interplay of logical consistency, structural cohesion, and scale-relative perception**.

This paper marks the beginning of the broader **Theory of Cosmic Structure**, which aims to explain the universe not through fragmentation of levels, but through the continuous interplay of memory (self), disappearance (essence), and structure (logic).