

Universe Crystal Canonical Baseline

Official English Edition

Version 1.8 (Frozen)

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Revision History

Version Status Revision Summary

V1.6	Frozen	Initial Canonical Baseline establishing the overall philosophical framework of the Universe Crystal project.
V1.7	Frozen	Clarified the ontological definition of Open Texture . Open Texture was formally defined as the Geometric Existence of an Organizational Interaction . The chapters on Time and Canonical Conclusions were updated accordingly, while the First Principles, Organization Hierarchy, and Dynamics remained unchanged.
V1.8	Frozen	Introduced the Universe Crystal Grand View and formally established the Organizational Interpretation Principle , forming the three-layer theoretical structure of Framework – Ontology – Epistemology . The First Principles, Organization Hierarchy, Dynamics, and existing Ontology remain unchanged. This revision focuses on improving overall theoretical consistency.

Revision Scope

Version 1.8 does **not** introduce new First Principles.

It does **not** modify the Organization Hierarchy.

It does **not** modify the Dynamics.

This revision primarily completes the overall theoretical architecture of the Universe Crystal framework, including:

- Introduction of the **Universe Crystal Grand View**;
- Introduction of the **Organizational Interpretation Principle**;
- Establishment of the three-layer theoretical structure of **Framework – Ontology – Epistemology**;
- Consistency updates to chapters including **Organizational Reading** and **Canonical Conclusions**.

The ontological definitions of **Open Texture**, **Stable Closed Texture**, **Organization**, and other existing concepts remain unchanged.

Universe Crystal Grand View

Universe Crystal is **not** the universe observed by any particular organization.

It is **not** the world understood by a particular observer.

It is **not** a timeline.

It is **not** history.

It is **not** the result of observation.

Instead,

Universe Crystal is a theoretical framework that describes the overall organizational structure of the continuously evolving universe as a whole.

Universe Crystal adopts the **Grand View**, describing how the continuously evolving universe,

considered as a whole, is formed, evolves, and continuously gives rise to new organizations. Therefore, Universe Crystal does **not** describe the universe as understood by any particular organization. It describes the **overall organizational structure of the continuously evolving universe**.

Grand View

From the Grand View of Universe Crystal, the continuously evolving universe is woven through the interactions of countless organizations.

Each organizational interaction constitutes a fundamental **Event** within the Universe Crystal and forms an **Open Texture**.

As organizations continue to interact,

Open Textures continue to emerge,

Stable Closed Textures continue to form,

Organizations continuously emerge,

and together they constitute the continuously evolving **Universe Crystal**.

Therefore,

Universe Crystal consists of far more than Open Texture alone.

It encompasses the complete organizational structure of the continuously evolving universe, including:

- **Open Texture;**
- **Stable Closed Texture;**
- **Organizations;**
- **Organization Hierarchy;**
- **The Whole Crystal.**

Wholeness and Locality

Universe Crystal and the universe interpreted by any particular organization belong to two different levels.

Universe Crystal describes

the overall organizational structure of the continuously evolving universe.

Within this framework, there is no privileged:

- observer;
- organization;
- consciousness;
- reference frame.

Universe Crystal describes the universe from the perspective of the **Whole**.

Organization

Stable Closure gives rise to an **Organization**.

Based on the organizational relations through which it propagates within its own organizational system, every organization forms its own organizational state and develops its own interpretation of the universe.

Therefore,

the universe understood by any organization is **not** the Universe Crystal itself.
Rather, it is an **Interpretation** formed according to the organizational relations within its own organizational system.
Universe Crystal represents the **Whole**.
Every organization can only construct an interpretation of the universe that is constrained by its own organizational relations.

1. Position

Universe Crystal is **not** a new physical theory.

It is a **philosophical conjecture** concerning the overall organizational structure of the universe.

It does not attempt to overturn modern physics.

Nor does it claim to establish an absolute truth.

Instead, Universe Crystal adopts the **Grand View**, describing the continuously evolving universe as an integrated whole.

Modern physics primarily investigates the state of the universe at particular moments.

Universe Crystal investigates

the organizational structure of the **Whole Crystal**, and how this whole provides a unified conceptual framework for understanding particles, propagation, time, space, history, and consciousness.

This research follows two fundamental principles:

- **The Principle of Minimal Axioms;**
 - **The Principle of Introducing as Few New First Principles as Possible.**
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2. Core Axioms (Frozen)

Axiom 0 — Wholeness

The universe is, first and foremost, a whole.

No local part can obtain a complete definition independently of the whole.

Axiom 1 — Historical Non-removability

The universe never overwrites itself.

Once formed, every texture permanently belongs to the Whole Crystal.

The Universe Crystal can only continue to grow richer.

Its history cannot be removed.

Axiom 2 — Organizational Reading

Consciousness is not a privileged entity.

Every measurement is an act of **Organizational Reading**.

This includes:

- the human eye;
- cameras;
- detectors;
- any measurement device.

Consciousness is simply a higher-level form of Organizational Reading.

Axiom 3 — Energy

Energy is not the fundamental ontology of the universe.

It is merely a quantity used by observers to describe organizational change.

3. First Principles

At present, the Universe Crystal framework recognizes only four First Principles.

3.1 Open Texture

Open Texture is the most fundamental organizational texture generated through interactions between organizations.

It is **not** matter.

It is **not** energy.

It is **not** a field.

Nor is it a trajectory through space.

Open Texture is the **Geometric Existence of an Organizational Interaction**.

Every organizational interaction gives rise to an Open Texture, which permanently becomes part of the organizational structure of the Universe Crystal.

Therefore,

every Open Texture belongs to the Universe Crystal as a whole.

There is no such state as an interaction that is "half propagated."

Open Texture constitutes the **Fundamental Organizational Texture** of the Universe Crystal.

Every organizational interaction possesses a geometric mode of existence.

This geometric mode of existence is called **Open Texture**.

3.2 Stable Closed Texture

A **Stable Closed Texture** is formed when an Open Texture achieves stable closure.

This gives rise to the first level of closed texture.

Within the current framework,

electrons and quarks are regarded as research objects belonging to the first level of Stable Closed Texture.

Closure is neither a closure in space nor a closure in time.

It is a **stable closure within the Whole Crystal across all space-time**.

3.3 Degrees of Organization

Degrees of Organization are not classical spatial dimensions.

They are defined as the fundamental degrees of freedom through which the Fundamental Organizational Texture forms different stable organizational structures.

At present, it is proposed that the following fundamental properties primarily originate from Degrees of Organization:

- Spin;
 - Electric Charge;
 - Mass.
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3.4 Organization Hierarchy

The universe evolves through the continuous emergence of higher levels of organization.

Its evolution is **not** characterized by the continuous creation of new fundamental particles.

4. Organization Hierarchy (Frozen)

Level 0

Open Texture



Level 1

First-Level Stable Closed Texture

Examples:

- Electron
- Quark

Characteristics:

- Point-like particles;
- Stable Closure;
- No volume;
- Independent Identity.



Level 2

Second-Level Organization

Examples:

- Proton
- Neutron

Characteristics:

- Stable organizations formed by multiple First-Level Stable Closed Textures;
- The first emergence of physical volume;
- The first emergence of organizational Identity;
- The first emergence of spatial degrees of freedom.



Level 3

Third-Level Organization

Example:

- Atom

Characteristics:

- Formation of chemical elements;
- Emergence of chemical properties;
- Organizational level at which chemical reactions occur.



Level 4 and Above

Examples include:

- Molecules;
- Life;
- Consciousness;
- Society;
- Higher organizational systems.

These represent the continuous upward emergence of organizational complexity.

5. Electron Baseline (Frozen)

Within the current framework,
an **Electron** is defined as a **First-Level Stable Closed Texture**.
The unified model is summarized as follows:

Stability

Originates from Stable Closure.

Point-like Nature

Represents the local manifestation of a globally stable closure.

Spin

Originates from stable organizational closure.

Electric Charge

Originates from Degrees of Organization.

Mass

Represents the holistic property established after Stable Closure is achieved.

All electrons are identical because
their mode of Stable Closure is unique.

6. Organizational Laws (Frozen)

First-Level Closure

First-Level Closure establishes **Existence**.
Stable Closure gives rise to stable **Identity**.

Identity comes from Stable Closure.

Second-Level Organization

Second-Level Organization establishes
organizational stability.

Third-Level Organization

Third-Level Organization establishes
chemical elements and chemical properties.

Higher organizational levels continue to emerge through organization.

The evolution of the universe follows a common principle:

Stability is achieved when higher-level organizations form new Stable Closures.

7. Crystal Evolution (Frozen)

The universe underwent a fundamental phase transition.

During this transition,

First-Level Stable Closed Textures, including electrons and quarks, were formed.

Afterwards,

no new First-Level Stable Closed Textures are created.

Subsequent cosmic evolution is therefore characterized primarily by
the continuous enrichment of higher levels of organization.

The Universe Crystal never overwrites its own history.

Previously formed textures are never removed.

The Universe Crystal can only continue to grow.

8. Dynamics (Frozen)

Chemical Reactions

Chemical reactions occur at the level of

Third-Level Organization.

Their essence is

the reorganization of Third-Level Organizations.

Throughout this process:

- First-Level Stable Closed Textures remain unchanged.
- Second-Level Organizations remain unchanged.

A chemical bond is **not** a new First Principle.

Rather, it is an organizational structure through which Third-Level Organizations jointly organize First-Level Stable Closed Textures.

Nuclear Reactions

Nuclear reactions occur at the level of

Second-Level Organization.

Fusion

Fusion is the reorganization of Second-Level Organizations.

Fission

Fission is likewise the reorganization of Second-Level Organizations.

Throughout both processes,

First-Level Stable Closed Textures remain unchanged.

Principle of Organizational Stability

The lower the organizational level,

the greater its stability,

and the higher the threshold required for reorganization.

Conversely,

the higher the organizational level,

the more readily reorganization can occur.

Accordingly:

- **Level 1:** Nearly invariant.
 - **Level 2:** Nuclear reactions.
 - **Level 3:** Chemical reactions.
 - **Higher Levels:** Increasingly dynamic organizational evolution.
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9. Organizational Interpretation Principle (New)

Core Definition

Every organization can form its own organizational state only on the basis of the propagation relations within the organizational system to which it belongs.

Based on these organizational relations, it produces its own interpretation of the universe.

Therefore,

every output generated by an organization is, in essence, an **Interpretation** formed according to the propagation relations within its organizational system.
It is **not** the Universe Crystal itself.

Corollary 1 — Organizational Interpretation

Observation is not an ability unique to consciousness.

Any organization capable of forming an organizational state and producing an output performs **Organizational Interpretation**.

This includes, but is not limited to:

- Particles;
- Atoms;
- Molecules;
- Crystals;
- Biological organizations;
- Scientific instruments;
- AI systems;
- Consciousness systems;
- Scientific communities.

The only difference lies in their respective levels within the Organization Hierarchy.

Corollary 2 — Experimental Measurement

Experimental measurement is a form of **Organizational Interpretation**.

The outputs of scientific instruments, including:

- Voltage;
- Electric current;
- Images;
- Spectra;
- Experimental data;

are **not** the Universe Crystal itself.

They are interpretations generated according to the organizational structure of the measuring instrument.

Corollary 3 — Scientific Theory

Scientific theories are forms of **Organizational Interpretation**.

Through the continuous accumulation of propagation relations,
the scientific community continually develops new interpretations of the universe.

Therefore,

scientific theories are **not** the Universe Crystal itself.

They are organizational interpretations constructed by the scientific community.

Corollary 4 — Consciousness

Consciousness is also a form of **Organizational Interpretation**.

Based on the propagation relations within its own organizational system,
consciousness constructs:

- Experience;
- Memory;
- Understanding of the world;
- Understanding of time;
- Understanding of meaning.

Therefore,

every understanding of the universe produced by consciousness remains an organizational interpretation.

10. Organizational Reading (Frozen)

Every measurement is an act of **Organizational Reading**.

Reading is not exclusive to consciousness.

Every measuring device acquires information by progressively reading organizational relations.

Organizational Reading is the fundamental process through which an organization constructs an interpretation.

It serves as the bridge through which the classical world emerges.

11. Time (Frozen)

Time is **not** a First Principle.

As the geometric existence of an organizational interaction,

Open Texture itself possesses no time.

For example,

light emitted by a galaxy 2.5 million years ago is, at the fundamental level, nothing more than a complete Open Texture connecting two closed organizations.

The "2.5 million years" is **not** a duration experienced by the Open Texture itself.

Rather,

it is a macroscopic relation that emerges after Organizational Reading progressively interprets the underlying organizational structure.

Therefore,

time belongs to a higher-level description produced through Organizational Interpretation.

It is **not** a fundamental object of the Universe Crystal.

12. Space (Frozen)

Open Texture possesses:

- no length;
- no distance;
- no direction.

A First-Level Stable Closed Texture possesses:

- no volume.

Consequently,

no spatial degrees of freedom exist at the First-Level Organization.

Spatial degrees of freedom first emerge within the Second-Level Organization.

This is because Second-Level Organizations are the first to possess:

- a stable scale;
- organizational boundaries;
- physical volume.

Therefore,

space is **not** a First Principle.

Space emerges as the macroscopic geometric manifestation of higher-level organizations.

Ultimately,

macroscopic organizations manifest as three-dimensional space.

13. Framework, Ontology, and Epistemology (New)

The Universe Crystal framework now consists of three corresponding theoretical layers.

Layer 0 — Framework

Question

How should the continuously evolving universe be understood as a whole?

Answer

Universe Crystal is the theoretical framework that describes the overall organizational structure of the continuously evolving universe.

It is **not** the universe observed by any particular organization.

Layer 1 — Ontology

Question

Why can organizations exist?

Answer

Identity comes from Stable Closure.

Stable Closure gives rise to stable Identity.

Layer 2 — Epistemology

Question

How do organizations understand the universe?

Answer

Interpretation comes from Organizational Relations.

Organizations construct interpretations according to the propagation relations within the organizational systems to which they belong.

Together,

these three layers constitute the fundamental theoretical architecture of the Universe Crystal framework.

14. Canonical Conclusions (Frozen)

The Universe Crystal framework currently establishes the following unified conclusions:

- **Universe Crystal** is a theoretical framework that describes the overall organizational structure of the continuously evolving universe.
- **Open Texture** is the geometric existence of an organizational interaction and

constitutes the Fundamental Organizational Texture of the Universe Crystal.

- **First-Level Stable Closed Texture** provides a unified interpretation of electrons and quarks.
 - **Identity comes from Stable Closure.**
 - **Organizational Interpretation comes from Organizational Relations.**
 - Spatial degrees of freedom first emerge within the Second-Level Organization.
 - Macroscopic organizations ultimately manifest as three-dimensional space.
 - Time is a higher-level description produced through Organizational Interpretation rather than a fundamental object of the Universe Crystal.
 - Degrees of Organization provide a unified interpretation of the fundamental quantum properties.
 - The stability of Second-Level Organizations originates from stable topological organization.
 - The universe continuously evolves through the emergence of increasingly higher levels of organization.
 - The Universe Crystal is a Whole Crystal across all space-time, and its history is non-removable.
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15. Baseline Status (Frozen)

Universe Crystal Canonical Baseline Version 1.8 is hereby officially frozen.

This Canonical Baseline serves as the **sole semantic foundation** of the Universe Crystal framework.

Concepts defined within this Baseline are, in principle, no longer subject to modification.

Future research will be conducted on the basis of this Baseline as independent research directions, including but not limited to:

- Discrete Geometry;
- Local Topological Updating;
- Continuous Organization;
- The Formation of Fields;
- The Emergence of Open Texture from Discrete Geometry;
- Mathematical Description of Stable Closure;
- Organization Dynamics;
- Mathematical Formalization of the Universe Crystal.

These topics belong to new research programs.

In principle, they shall not modify the Canonical Baseline unless they require a fundamental revision of the First Principles.

Universe Crystal Canonical Baseline Version 1.8 (Frozen)

— End —