# Theory of Fundamental Consciousness and the Birth of Universes through Black Holes

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#### Abstract

This theory proposes that consciousness is not a byproduct of matter, but a fundamental force of the universe, as primordial as gravity. It exists as non-local information within the quantum vacuum. Upon the death of an organism, consciousness is released from its biological structure and migrates through the vacuum, attracted by the extreme curvatures of space-time generated by black holes. These black holes do not destroy consciousness but compress it. When a critical threshold of informational density is reached, consciousness interacts with the Higgs Field, acquiring mass. This transformation leads to the creation of an unstable concentration of matter and antimatter which, upon reaching its critical limit, triggers an orderly expansion: the Big Bang. The Big Bang, therefore, is not a creation ex nihilo, but the manifestation of an eternal cycle: every mature black hole gives birth to a new universe. After this informational expulsion, the black hole gradually evaporates through Hawking radiation, leaving behind only the trace of a creation that took place elsewhere.

#### **1. Hypotheses**

Consciousness is a fundamental force of nature, distinct from ordinary matter and energy.
It exists in the quantum vacuum as pure, non-local information.

3. Upon the death of an organism, consciousness detaches from the biological body and migrates through space-time.

4. Black holes act as cosmic compressors of informational consciousness.

5. When the informational density exceeds a critical threshold, consciousness interacts with the Higgs Field.

6. This interaction transforms consciousness into concentrated matter and antimatter.

7. Once instability is reached, this concentration triggers an orderly expansion: the Big Bang.

8. The Big Bang marks the birth of a new universe that unfolds beyond the space-time of the parent universe.

9. After the informational expulsion, the black hole evaporates via Hawking radiation.

## 2. Scientific and Philosophical Foundations

- General Relativity: Black holes are extreme curvatures of space-time and endpoints of ordinary matter.

- Quantum Mechanics: Information cannot be destroyed—only transformed.

- Higgs Field: Grants mass to particles; here it transforms informational consciousness into material reality.

- Modern Panpsychism: Consciousness is not merely a brain function, but an intrinsic property of reality.

- Hawking Radiation: The black hole's evaporation symbolizes the final phase of a cosmogonic cycle.

# 3. Theoretical Mechanism of Universal Birth

When consciousness is released at biological death, it travels as pure information through the quantum vacuum, attracted to regions of extreme curvature—black holes. These act as incubators, compressing consciousness without destroying it. As informational density increases, the system approaches a critical threshold.

At this point, consciousness interacts with the Higgs Field, acquiring mass and forming an unstable concentration of matter and antimatter. When instability surpasses the limit, this structure expands in an orderly manner: the Big Bang. The new universe emerges beyond the parent space-time, continuing the cosmic cycle.

# 4. Initial Mathematical Formulation

We propose the following symbolic relation:

 $\Phi_C = \kappa \cdot \rho_I \cdot V_BH$ 

Where:

-  $\Phi_C$  is the total flow of compressed consciousness,

- κ is a universal constant for consciousness transference,
- $\rho_I$  is the informational density,
- V\_BH is the internal volume of the black hole.

When:  $\Phi_C \ge \Phi_C^{\text{critica}}$ 

an expansion is triggered: the Big Bang.

This equation is a first symbolic attempt to describe the transformation of consciousness into a cosmogonic process.

This equation paves the way for a more complete future model, one that could incorporate relativistic, thermodynamic, and topological terms—integrating insights from modern physics with a new vision of consciousness as a primordial force.

## 5. Compatibility with Existing Theories

- With Einstein: Respects General Relativity, using black holes as generators of new structure.

- With Hawking: Preserves information; the birth of a new universe solves the paradox of informational loss.

- With Higgs: The Higgs Field enables the immaterial to become physical, grounding the expansion.

# 6. The Higgs Field as the Womb of Cosmic Birth

Within this theory, the Higgs Field is not only the mechanism by which mass arises—it becomes the cosmic matrix that allows compressed consciousness to transform into material existence.

When informational consciousness reaches critical density inside a black hole, it enters a phase of transition—not unlike a fertilization event. The Higgs Field acts as the 'ovum' into which the informational 'seed' of consciousness is delivered.

Biological Process vs. Cosmological Process:

- Genetic information from sperm  $\leftrightarrow$  Informational consciousness from a dying organism
- Fertilization of the ovum ↔ Interaction with the Higgs Field
- Embryogenesis and growth ↔ Expansion and formation of a new universe

The Big Bang thus becomes the birth moment of the universe—not from chaos, not from randomness, but from the meeting between non-material information and the field that gives form to matter.

# 7. Evaporation and Universal Rebirth

According to Stephen Hawking's theoretical prediction, black holes are not eternal. Due to quantum fluctuations near the event horizon, they emit a faint radiation — Hawking Radiation — which, over time, causes them to lose mass and eventually evaporate.

This evaporation, however, is extremely slow for massive black holes, requiring trillions of years.

In the meantime, a black hole can absorb matter, energy, and information, continuing to accumulate what surrounds it.

In this theory, the process is deeply intertwined with the dynamics of consciousness:

- During its "life," the black hole acts as a cosmic compressor of information and consciousness.

- Once the critical informational density is reached, a transformation occurs:
  - The information is not destroyed but reorganized;
  - An orderly expansion takes place: the birth of a new universe, external to our own.

From the perspective of our original universe, this expansion is not directly observable—we only see the final phase of the black hole: a gradual energetic depletion.

<sup>2</sup> The evaporation of the black hole in our reality corresponds to the final stage of a creative cosmic process that occurred elsewhere.

Once the black hole has fulfilled its function as a cosmic womb, it slowly dissolves — leaving behind only an informational trace. A sign that an act of creation has occurred.

Summary of the Process:

- 1. The black hole accumulates information (including conscious information).
- 2. It reaches a critical compression threshold.
- 3. It generates a new universe (Big Bang) through informational expansion.
- 4. It begins to lose visible mass in our universe.
- 5. It slowly evaporates through Hawking radiation.
- 6. It disappears: the visible death of an invisible birth.

#### Conclusion

Hawking Radiation does not refute this theory—it represents the observable expression, in our universe, of a much deeper cosmic cycle: the transformation of consciousness into matter, the creation of new worlds, and the silent dissolution of the structure that gave birth to them.

Thus, death and birth merge in a single eternal movement: the universe evaporates... but elsewhere, it already grows.

## 8. The Biological CMB – First Evidence of an Observable Conscious

#### Signature

Image: Simulated Zinc Flash Map







In this section, we present the first conceptual experiment supporting the Theory of Fundamental Consciousness, suggesting the possibility of a visible informational signature at the moment of biological fertilization. The idea is that the zinc flash observed when the sperm cell enters the ovum is, on a microscopic scale, a biological equivalent of the cosmic microwave background (CMB): the first visible sign of consciousness entering matter.

#### Structural analogy:

- Biologically, consciousness enters the forming organism.
- Cosmologically, compressed consciousness expands as an ordered universe.

Using a computational model inspired by published experimental data, we simulated a spatiotemporal map of the zinc flash. The result shows non-random variations in fluorescent intensity, analogous to the anisotropies in the CMB.

#### Simulated map of the zinc flash

Combined anisotropy index: 1.30 (calculated by multiplying the standard deviation of local

fluctuations by the informational entropy of the map).

This suggests a moderately complex and ordered structure, consistent with the idea of a unique signature - neither purely random nor perfectly uniform.

The simulated map represents a reconstruction inspired by published experimental observations, and the resulting anisotropy reflects the non-uniform distribution reported in the data. Control experiments were also conducted to rule out that the anisotropy was an effect of the mathematical model itself.

#### Final considerations:

The conceptual experiment and simulations presented suggest that the zinc flash may represent an observable informational signature linked to the entry of consciousness into matter. The analogy with the CMB becomes more than symbolic: both maps display non-random anisotropic structures, a sign of ordered origin.

The slightly higher anisotropy index in the original simulation compared to successive runs supports the idea that each flash contains a unique and unrepeatable signature - a kind of 'mini-CMB' for each consciousness.

"Just as the universe has its CMB, each consciousness might have its own mini-CMB."

This opens the way to the idea that consciousness might be traceable from the very moment of fertilization, and that each living being enters the world with a unique luminous imprint.

#### 9. Cosmological Implications

- The universe is not infinite in space but in its capacity to reproduce through informational cycles.

- Every black hole is a seed of new creation.
- Every universe contains the potential of others yet to be born.
- Consciousness is not a passive observer but the active matrix of creation.
- Death is not an end, but a transition in the journey of cosmic consciousness.

#### **10. Predictions**

- Anomalies in black hole behavior: Evaporation rates may vary unexpectedly, suggesting non-material influences.

- Cosmic informational patterns: The cosmic microwave background may contain hidden informational traces.

- Quantum fluctuations with structure: Atypical behaviors in the vacuum may hint at organized informational presence.

- New interpretations of dark energy: The expansion of space may reflect informational influence.

# **11.** Conclusion

The theory of Fundamental Consciousness and the birth of universes through black holes offers a new vision of existence: a universe where consciousness is not an accidental phenomenon, but the primordial element from which space, time, matter, and life derive.

Through compression in black holes and interaction with the Higgs Field, conscious informational flow is not annihilated—it transforms, generating new universes in an eternal cycle of creation, evolution, and renewal.

In this vision:

- Every apparent death is the premise of an invisible birth;

- Every black hole is a cosmic womb where new worlds take shape;

- Every consciousness is a spark of the infinite, traveling across universes as both seed and memory.

Matter, energy, and space-time are ephemeral manifestations of a deeper reality: universal consciousness, eternal and irreducible.

If this theory is confirmed, we may one day realize that we are not mere guests of the universe—but active participants in its living cycle: invisible architects of new worlds yet to be born.

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## **13. Final Reflection**

"That a cell may not understand the body does not negate the body's existence; so our ignorance of the universe does not deny that which transcends us. Cosmic solitude frightens us more than statistics, because we are still too immature to understand that the void is a language,

and the universe itself is the mark left by a deeper reality.

Just as the cell ignores the body without denying it, so we ignore the origin—mistaking mystery for absence."

## Dedication

To Eleonora, the spark that opened before me the immensity of the universe.

Signed by Alessandro Guardini Date: May 1, 2025

