

The Emergence and Dissolution of the Universe¹.....Paul Caracristi (250522.oo.1.31)

❖ Abstract

This essay explores the ontological genesis and dissolution of the manifest universe, “the Patent realm”, as an emergence from, and eventual return to, the undifferentiated “Latent realm” of pure potential. Rejecting a purely physicalist account, it proposes that time itself is not a container for events but the first event, the condition by which existence can unfold. The Patent realm originates at the threshold of a white hole, where instantaneous, massless photons first appear, and gains structure as time “deflates,” allowing light to endure as matter. Entropy, complexity, and form arise as temporal resistance increases, culminating in a black hole horizon where time approaches stillness and mass dissolves back into potential. This process is not cyclical repetition but a unique act of becoming and un-becoming, grounded in the infinite capacity of the Latent to generate new realms with their own temporal and structural character. The work reframes cosmogenesis as an ontological² event rather than a spatial-temporal expansion, inviting a reconsideration of reality as a phase within a deeper, timeless continuum.

❖ Introduction

This essay arises from a quiet but persistent question: how does anything come to be? Not how things interact once they exist, but how existence itself takes form. In particular, I have been drawn to the nature of time, not as a coordinate or metric, but as something more primary, more originary³. What if time is not the stage, but the event? What if matter, entropy, and even light are not simply within time, but products of its unfolding?

What follows is a conceptual attempt to trace the emergence of what I call the Patent realm⁴ (our universe), that which is manifest, from the unbounded fullness of the Latent

¹ This modest essay is meant as a quiet chamber for thought, a stillness in which to listen closely to the deeper currents of being. It is a reflection poised on the threshold where cosmology and consciousness meet, where the vastness of the universe and the intimacy of the mind reveal themselves as inseparable. It is not framed in academic form, though it seeks a certain rigour of intent. It is not offered as doctrine, though it arises from conviction. What follows is an exploration of the unfolding relationship between the cosmos and awareness, not as separate domains, but as co-emergent expressions of one infinite, continuous reality. These are my own reflections, born of wonder, sustained by questioning on the mystery of the universe and the enduring spirit of life.

² From a temporal cavitation perspective, “ontological” refers to the conditions of being as they emerge from the cavitation of time itself, where the Latent realm of potential transitions into the Patent realm of manifestation. Ontology, then, is not static essence but the dynamic temporality of existence, always tethered to the spectral unfolding of time.

³ “Originary” means pertaining to the origin of something in a foundational or generative sense, often beyond simple chronology. It suggests something rooted in the source or ground of being, thought, or structure.

⁴ Patent Realm in TCMC: The manifest domain within the cavitation bubble where time flows, matter evolves, and spacetime curvature defines physical phenomena, where the universe becomes observable.

realm⁵ (the undifferentiated potential). I do not offer explanations in the language of physics, though I remain deeply respectful of its discipline. My aim is different: to approach the possibility that what we experience as reality is but one phase of a deeper continuum, whose origin and destiny are hidden in potential.

❖ Discussion

The Patent realm does not pre-exist. It emerges, not as a consequence of time, but as the condition for time. Its origin is not spatial nor temporal, but ontological. It unfolds from the fullness of the Latent realm, not as a division or subtraction, but as an asymmetrical rupture, a moment of cavitation.

At this moment, what we call a white hole may be better understood as a threshold between pure potential and expressive existence. It is not the origin of a universe in the sense of a place or an explosion, but the instant of becoming. Time, as we understand it, emerges at this boundary, not gradually, but instantaneously, inflating to its maximum frequency. This inflation is not a spatial expansion, but the sudden birth of the capacity to become.

At the precise threshold of this emergence, the photon appears at the event horizon of the white hole. But not as a particle. The photon, in the Latent realm, is without mass and without duration. It is not bound by time, nor does it endure. It is a momentless spark, pure relation, pure immediacy. It carries no history and holds no future. It exists only in the trace it leaves behind, the effect it produces in something capable of receiving it. It is the perfect emissary of the Latent realm: a presence that is not yet present.

And yet, as time begins to deflate, slowing from its initial burst of maximal frequency, the photon enters a new relation. It begins to thicken. What was immediate now stretches. What had no resistance now gains inertia. The very slowing of time creates the condition in which mass can emerge. Mass is not something that simply appears alongside the photon; it is the photon transformed by time. Mass is light that endures.

Matter is not a separate thing, but the consequence of temporal resistance. It is light given memory. It is the signature of a slowing cosmos. As time stretches, photons, once unbound, become confined. Their relational immediacy turns to structural persistence. The universe begins to take form, not because something new has entered, but because time itself is changing. The shift in the rhythm of becoming is what allows the world of form, mass, and relation to arise.

As time continues to slow, complexity increases. Entropy unfolds, not as chaos, but as the deepening residue of becoming. Experience accumulates. Relation becomes structure. Yet this unfolding is not without boundary.

⁵ Latent Realm in TCMC: The unmanifested, timeless domain of Infinite Reality, source of potential and the Will to Be, where existence has not yet individuated into time and form.

There comes a point at which the deflation of time approaches exhaustion. This is not a heat death. It is a convergence toward a limit, toward $t = 0$. And this limit is not behind us, but ahead. It is the event horizon of the black hole.

At the black hole's threshold, the tempo of time approaches stillness. Entropy collapses. Structure dissolves. What had become is now un-becoming. The coherent decay of mass is not destruction, it is reintegration. The Patent realm, which had emerged from the Latent, now submerges into it again. Not as a return to sameness, but as a final relinquishing of form.

At the exact moment $t = 0$ is reached, time as presence vanishes. Entropy becomes nothing. The Patent realm is no more. What remains is unstructured, unmeasured, unbounded potential; the Latent, once again full, but without figure.

This is not a cycle. It is not a repetition. The return is not to the same. It is to the unconditioned. Experience, relation, time, and matter, once expressed, are now complete. What was manifest has been unmade. What was present has been received.

❖ Conclusion

The end of our Patent realm does not close the story of becoming. The Latent is not a singular reservoir spent by one act of creation. It is Infinite. From that Infinite, other Patent realms may well arise, each through its own cavitation, each carrying its own temporal rhythm and its own ontology of unfolding. Such realms need not resemble ours, nor follow the same laws, nor trace the same arc. They are not parallel worlds or branches of a cosmic tree, but unique expressions of an undivided potential.

What binds them is not time, nor space, nor even energy, but the simple fact of emergence from the same origin: a reality full without form, whole without boundary, real without requiring an observer.

In this light, I turn toward what I call the Will to Be—the intrinsic drive within the Latent to manifest as existence. It is not an external force imposed upon the cosmos, but the generative impetus behind emergence, evolution, and becoming itself. The Will to Be is the thread that joins the wholeness of latent potential with the actuality of patent reality. It is the reason the Infinite does not remain silent but continually finds expression in the unfolding of worlds.

❖ References

These reflections have emerged over years of quiet study, lived experience, and difficult thinking. They owe much to the conversations I've had with those few who ask without expecting answers. I acknowledge the enduring influence of early cosmologists, from Heraclitus to contemporary thinkers, as well as those who continue to challenge the limits of physics, metaphysics, and language. Most of all, I remain indebted to the persistent question itself, why is there something rather than nothing, what purpose does it all serve, and what does it mean "to be". Subsequent essays will reveal, with more precision and clarity, some of the ideas and people that have influenced my search, my thinking and my work.

Caracristi P. (2025). The Nature of Whiteholes, Blackholes and the Energy Cycle of the Universe. <https://vixra.org/abs/2501.0057>

Caracristi P. (2024). Resolving Dark Matter/Dark Energy Through Gravitational and RSC Fields. <https://vixra.org/pdf/2412.0158v1.pdf>

Caracristi P. (2024). The Temporal Cavitation Model of Cosmology. <https://vixra.org/pdf/2410.0048v1.pdf>