Core Principles and Postulates of the Obidi Conjecture in the Theory of Entropicity (ToE)

The **Obidi Conjecture** is the core ontological assertion of the **Theory of Entropicity (ToE)**, an ambitious, radical framework developed by researcher **John Onimisi Obidi** [thinker, investigator, consultant, physicist, philosopher, and humanist]. The conjecture proposes a radical inversion of traditional physics: **entropy is not a derived statistical measure of disorder, but the fundamental, dynamical physical field from which all of reality—including space, time, matter, and geometry—emerges**. [1, 2, 3, 4]

Rather than viewing entropy as an epistemic accounting device or an afterthought calculated on top of an existing spacetime structure, the Theory of Entropicity (ToE) [as detailed in the paper: Theory of Entropicity Living Review] positions entropy as the primary causal substrate of nature. [3]

Core Claims of the Conjecture

- **Ontological Primacy**: Entropy is treated as a continuous, local, and dynamical scalar field mapped over a differentiable structure known as the entropic manifold.
- **Emergent Geometry**: Instead of geometry constraining how entropy behaves, the entropic field's gradients, flows, and higher-order curvatures generate spacetime geometry.
- **Gravity as Entropic Pressure**: Einstein's field equations are reinterpreted as large-scale, low-gradient approximations of entropic field dynamics, treating gravitational pull as pressure toward informational equilibrium.
- **Time as Directional Flux**: Time is not an independent or fundamental dimension. What we observe as time is simply the irreversible flux or "heartbeat" of the entropic field updating its state. [2, 3, 4, 5, 6, 7]

Mathematical and Philosophical Framework

According to the author's publications on SciProfiles and Medium, the theory relies on several supporting pillars: [7, 8]

- **The Obidi Action**: The variational principle that governs the dynamics of the entropic field. It elegantly merges classical entropy curvature (using the Fisher–Rao metric) with quantum entropy curvature (using the Fubini–Study metric).

- **The Obidi Correspondence Principle (OCP)**: A mathematical bridge ensuring that the Master Entropic Equation (MEE) correctly limits to known laws of physics—like General Relativity and quantum mechanics—under ordinary conditions.
- **The No-Rush Theorem**: Proposes that no physical process can occur instantaneously because the entropic field requires a finite time to redistribute, redefining the speed of light (c) as the maximum reconfiguration rate of the field. [2, 3, 8, 9, 10]

Scientific Status

The Theory of Entropicity (ToE) and the Obidi Conjecture represent an ongoing, provocative research program. However, it is crucial to note that it **is yet to be an established or widely accepted concept within the mainstream [traditional] physics community**. It is currently highly regarded as an alternative theoretical proposal that challenges the geometric metaphysics of 20th-century physics by demanding that constants and spacetime be treated as outputs rather than primitive inputs. [2, 9, 11]

Are you interested in exploring the **mathematical formalisms** behind the Obidi Action, or would you like to see how it attempts to resolve the **unification between quantum mechanics and general relativity**?

[1] https://medium.com

[2] https://medium.com

[3] https://papers.ssrn.com

[4] https://medium.com

[5] https://medium.com

[6] https://medium.com

[7] https://sciprofiles.com

[8] https://medium.com

[9] https://medium.com

[10] https://medium.com

[11] https://osf.io

The **Obidi Conjecture** is the central ontological claim of the **Theory of Entropicity (ToE)**, a theoretical physics framework proposed by researcher John Onimisi Obidi. [1]

The conjecture asserts that entropy is the fundamental physical field of the universe, and that all other physical structures—including space, time, matter, energy, and information—are emergent properties of its behavior. [1, 2]

Core Principles of the Theory

- **Ontological Primacy:** Inverting the traditional hierarchy of physics (which treats entropy as a derived statistical measure of disorder), the Obidi Conjecture posits that entropy is the primitive substance from which reality is built.
- **Emergent Geometry:** Under this view, spacetime geometry does not constrain entropy; rather, the gradients, flows, and spectral structure of the entropic field generate geometry.
- **The Obidi Action:** The theory employs a variational principle known as the Obidi Action, which aims to govern entropic dynamics, with the Einstein field equations arising merely as large-scale, low-energy limits. [1, 2, 3, 4, 5]

Foundational Postulates

To tie the entropic foundation to observable reality, the theory introduces several key corollaries and principles: [1, 2, 3]

- **The Obidi Correspondence Principle:** Assures that any successful existing law of physics (such as general relativity) must emerge as a valid limiting expression when the entropic field is observed under specific conditions.
- **The Obidi Curvature Invariant (OCI):** A theoretical invariant proposing that the smallest nontrivial curvature threshold where two entropic states become distinguishable is represented by (ln 2).
- **Entropic Seesaw Model (ESSM):** A formulation within the framework that seeks to explain quantum entanglement as a dynamical, finite-time topological merger of previously independent entropic sectors. [1, 2, 3, 4]

Further information, academic preprints, and canonical archives tracking the development of this theory are documented in the Theory of Entropicity Living Review Letters or on the theory's SciProfiles Profile. [1, 2]