Frequently Asked Questions (FAQs) On the Theory of Entropicity (ToE)

The **Theory of Entropicity (ToE)**, developed primarily by researcher **John Onimisi Obidi**, represents a radical shift in theoretical physics by positioning entropy as the fundamental "ontic" field of reality. In this framework, spacetime and gravity are not primary structures but emergent properties of an underlying entropic substrate. [1, 2, 3, 4]

We have compiled a comprehensive **Frequently Asked Questions (FAQ)** guide in the ToE Canonical Archives Live Websites, detailing the theory's mathematical foundations, relativistic derivations, and its current standing in the scientific community as of May 2026.

Would you like to explore the specific **mathematical derivations of the Master Entropic Equation** or look into the **experimental requirements for testing entanglement delays**?

Core Conceptual Framework of the Theory of Entropicity (ToE)

What is the fundamental premise of the Theory of Entropicity?

Standard physics treats entropy as a statistical measure of disorder or uncertainty. ToE inverts this, proposing the **Obidi Conjecture**: that entropy is a continuous, local, and dynamical scalar field (the **Entropic Field**) that serves as the causal substrate for all existence. Space, time, and matter are emergent "maps" of entropic gradients.

How does ToE explain gravity?

ToE rejects gravity as a fundamental force or a fixed geometric curvature. Instead, it defines gravity as

"**entropic pressure**". Mass-energy configurations create gradients in the entropic field, and systems naturally move toward higher entropic equilibrium, which we perceive as gravitational attraction.

What is the "No-Rush Theorem"?

The **No-Rush Theorem (NRT)** is a foundational principle of ToE establishing that physical interactions cannot occur instantaneously. It posits that the entropic field requires a finite duration to redistribute and synchronize states, providing a thermodynamic origin for causality.

Is the speed of light (c) still a constant?

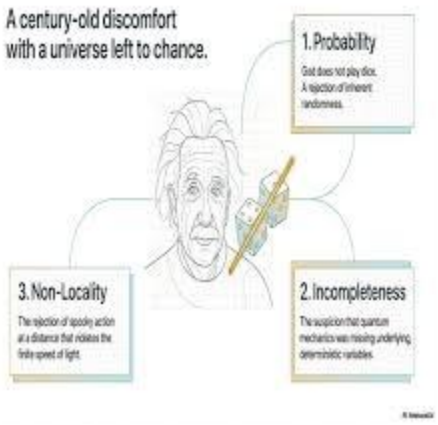
In ToE, the speed of light is not an arbitrary geometric postulate but a **derived maximum rate of entropic rearrangement**. Relativistic effects like time dilation and mass increase are interpreted as "entropic resistance" (ERP) that occurs when a system approaches this fundamental reconfiguration limit.

Core Principles and Postulates of the Obidi Conjecture in the Theory of ...

May 17, 2026 — Core Principles and Postulates of the Obidi Conjecture in the Theory of Entropicity (ToE) * Rather than viewing entropy as an epis...

A Brief Historical and Conceptual Introduction to the Foundations of ...

Apr 1, 2026 — 🧠 What Is It? The Theory of Entropicity (ToE) is a radical and emerging framework in theoretical physics, originated by John Onim...



Mathematical & Technical Pillars

What are the "Master Entropic Equations"?

The **Master Entropic Equation (MEE)**, also referred to as the Obidi Field Equations (OFE), serves as the entropic analogue to Einstein's field equations. It governs how the dynamics of the entropic field generate spacetime curvature and motion.

What is the Vuli–Ndlela Integral?

The **Vuli–Ndlela Integral** is an entropy-weighted reformulation of Feynman's path integral. By incorporating entropy into the weighting of quantum paths, it naturally embeds irreversibility and the "arrow of time" into quantum mechanics.

How does the theory use Information Geometry?

ToE bridges information and physics using **Amari–Čencov alpha-connections**. It integrates the

Fisher–Rao metric (representing classical entropy curvature) and the **Fubini–Study metric** (representing quantum entropy curvature) to map how macroscopic spacetime emerges from underlying statistical information.

Does ToE replicate Einstein's General Relativity results?

Yes. Papers published on Cambridge Open Engage

demonstrate that ToE can derive **Mercury's perihelion precession**. By using higher-order entropy corrections to Newtonian gravity (incorporating the Unruh effect and Holographic Principle), the framework arrives at the identical **43 arcseconds per century** shift calculated by Einstein.

On the Conceptual and Mathematical Foundations of the Theory ...

At its core, the theory reformulates the speed of light as the maximum rate of entropic rearrangement, deriving relativistic and q...

The Theory of Entropicity (ToE): An Entropy-Driven Derivation of ...

We present a novel derivation of the perihelion precession (shift) of Mercury using the Entropic Force-Field Hypothesis (EFFH), no...


The Theory of Entropicity (ToE): An Entropy-Driven Derivation of Mercury's Perihelion Precession Beyond Einstein's Curved Spacetime in General Relativity (GR)

John Onimisi Obidi

10th March 2025

Prologue

Proposition 1: First Postulate of the Theory of Entropicity (ToE)

Abstract

Academic Status & Future Outlook

Is the Theory of Entropicity mainstream?

Not yet. As of May 2026, ToE remains an

emerging, radical theoretical proposal. While it is documented in academic repositories like SSRN and Cambridge Open Engage, it is not yet part of the established physics curriculum.

What is the Alemoh–Obidi Correspondence?

The **Alemoh–Obidi Correspondence (AOC)** is a recorded intellectual exchange (August 2024 – April 2026) between Daniel Moses Alemoh and John Onimisi Obidi. It serves as a developmental record for the theory's logical constructions, focusing on "The Question of c" and the entropic emergence of causal order.

Can the theory be tested?

The framework predicts **finite formation times for quantum entanglement** and specific attosecond delays in wave-function collapse. Proponents suggest these can be verified through high-precision quantum measurement experiments to determine if "No-Rush" temporal constraints exist as predicted.

How does ToE relate to consciousness?

The theory includes a speculative extension called

Ontodynamics, which treats consciousness as an emergent property of "self-referential entropic loops". It proposes a **Self-Referential Entropy (SRE) Index**

to quantify the degree of awareness based on a system's internal vs. external entropy flows.

The Theory of Entropicity (ToE) Living Review Letters Series

May 4, 2026 — Abstract. This Letter presents the foundational thesis of the Theory of Entropicity: that entropy is not a derived statistical qua…

ToE Living Review Letters IC:

Apr 26, 2026 — Abstract. This Letter [Letter IC in the Theory of Entropicity (ToE) Living Review Letters Series] formally presents a comprehensiv…

The **Theory of Entropicity (ToE)** is an emerging, non-mainstream framework in theoretical physics that redefines **entropy as the fundamental, dynamic field of reality** rather than a mere statistical measure of disorder. First proposed by researcher **John Onimisi Obidi**, the theory seeks to unify thermodynamics, general relativity, and quantum

mechanics by treating spacetime, gravity, and the speed of light as emergent properties of this underlying entropic substrate. [1, 2, 3]

The following Frequently Asked Questions (FAQ) detail the core mechanics, mathematical concepts, and current scientific standing of ToE. [2, 4, 5]

Core Conceptual FAQs

What is the fundamental premise of the Theory of Entropicity?

In classical and modern physics, entropy is viewed as an epistemic "afterthought"—a statistical bookkeeping tool to measure uncertainty or disorder. ToE completely inverts this hierarchy. It posits that an "**ontological scalar field" (the Entropic Field)** permeates all of existence. Space, time, matter, and forces are not the stage upon which events happen; they are structural ripples and emergent maps generated by the flow and constraints of this field. [1, 6]

How does ToE explain the constancy of the speed of light (c)?

Instead of treating c as an absolute geometric postulate as Einstein did, ToE derives it. Within ToE, **the speed of light is the maximum rate at which the entropic field can rearrange or redistribute information** and energy. Relativistic effects like time dilation and length contraction are physical consequences of a system's resistance to entropic flux, occurring because the instruments used to measure them are embedded in the same entropic medium. [1, 7, 8, 9, 10]

What is the "No-Rush Theorem"?

The **No-Rush Theorem** is a foundational principle of ToE establishing that **physical interactions cannot occur instantaneously**. Every process requires a finite, non-zero duration for the entropic field to redistribute and synchronize states, providing a fundamental thermodynamic origin for causality and the universal speed limit. [1, 10, 11]

How is gravity explained if it isn't a fundamental force?

ToE rejects both the Newtonian concept of gravity as an attractive force and the Einsteinian model of gravity as the literal bending of a spacetime fabric. Instead, gravity is viewed as "**entropic pressure" or emergent gradients**. Matter moves toward massive objects because the entropic field naturally reconfigures itself to maximize flow and achieve informational equilibrium. [1, 2, 6]

Mathematical & Framework FAQs

What mathematical equations govern the Theory of Entropicity?

ToE moves away from pure standard Riemannian geometry to embrace **information geometry**. Its core frameworks include: [12, 13]

- **The Obidi Action:** A variational principle encoding the dynamics of the universal entropy field.
- **The Master Entropic Equation (MEE):** Also known as the Obidi Field Equations (OFE), this acts as the entropic equivalent to Einstein's field equations.
- **The Vuli–Ndlela Integral:** An entropy-weighted reformulation of Feynman's path integral designed to naturally embed irreversibility and temporal asymmetry into quantum mechanics.
- **Amari–Čencov α-connections:** Used alongside Fisher–Rao and Fubini–Study metrics to map how macroscopic spacetime curvature emerges from the underlying statistical information manifold. [10, 13, 14, 15]

Has ToE successfully replicated any proven physics calculations? [10]

Yes, papers filed under the ToE framework have attempted to replicate benchmark relativistic derivations. For example, the Theory of Entropicity research on Cambridge Open Engage outlines an alternative derivation of **Mercury's perihelion precession**. By using higher-order entropy corrections to Newtonian gravity (incorporating the Unruh effect and the Holographic Principle), the framework arrives at the identical **43 arcseconds per century** shift derived by Einstein in 1915. [10, 16]

Scientific Standing & Academic Status

Is the Theory of Entropicity widely accepted by physicists?

Not yet. ToE is an early-stage, radical theoretical framework and is **not yet part of established or widely accepted mainstream physics**. While some papers have been hosted on academic repositories like Cambridge Open Engage and Axiomatic / OSF Preprints, it remains a novel proposal undergoing foundational mathematical development. [2, 4, 12, 17, 18]

Can the Theory of Entropicity (ToE) be experimentally tested or falsified? [19]

Proponents of ToE note that the framework allows for experimental falsification, separating it from entirely unprovable mathematical hypotheses. Specifically, researchers point to the potential for testing the theory through **attosecond measurements of quantum entanglement delays** to verify if the "No-Rush" temporal constraints operate exactly as predicted by the entropic field. [10, 19]

If you want to dig deeper into the mechanics of ToE, let me know if you would like to explore the **mathematical transition from information geometry to Einstein's equations**, review the **philosophical concept of Ontodynamics**, or see a breakdown of the **Alemoh-Obidi Correspondence**. [6, 8, 15]

[1] https://medium.com

[2] https://medium.com

[3] https://medium.com

[4] https://encyclopedia.pub

[5] https://medium.com

[6] https://medium.com

[7] https://www.authorea.com

[8] https://medium.com

[9] https://medium.com

[10] https://www.cambridge.org

[11] https://medium.com

[12] https://osf.io

[13] https://www.cambridge.org

[14] https://encyclopedia.pub

[15] https://www.cambridge.org

[16] https://www.cambridge.org

[17] https://medium.com

[18] https://encyclopedia.pub

[19] https://medium.com

The **Theory of Entropicity (ToE)**, pioneered by researcher John Onimisi Obidi in 2025, is a theoretical framework that proposes entropy is not merely a statistical measure of disorder, but the fundamental, dynamic field of reality from which space, time, gravity, and quantum mechanics all emerge. [1, 2]

Frequently Asked Questions (FAQ)

Q: What is the main difference between traditional physics and the Theory of Entropicity?

A: Traditional physics treats space and time as a fixed, foundational background stage where physical events occur. ToE turns this on its head, proposing that spacetime is actually an emergent property resulting from the geometry of how entropy is distributed and flows across the universe. [1, 2, 3]

Q: How does ToE explain the speed of light?

A: Instead of treating the speed of light \(c\) as an arbitrary universal postulate, ToE interprets it as the maximum rate at which the underlying entropic field can reorganize and redistribute information across space. In this framework, no physical process can occur instantaneously. [1, 2]

Q: Does ToE disagree with Einstein's Theory of General Relativity?

A: ToE does not invalidate Einstein's results, but rather re-derives them as "entropic inevitabilities". Phenomena like mass increase, time dilation, and length contraction are explained as the physical consequences of the universe's resistance to entropic flux, rather than strict kinematic features of space. [1, 2]

Q: What is the "No-Rush Theorem"?

A: The No-Rush Theorem establishes a universal lower bound on causal intervals, dictating that no physical change in state or interaction can happen instantaneously. Everything takes a finite amount of time to unfold because the underlying entropic field governs the pacing and transmission of these interactions. [1, 2, 3]

To dive deeper, you can explore the core conceptual foundations and far-reaching implications outlined in the Introduction to the Theory of Entropicity on Medium.

Would you like to explore how ToE reinterprets **gravity**, or would you prefer to learn more about the **No-Rush Theorem** and time? [1]