

# **THE DISCRETE VISCOUS TIME THEORY**

## **MEGNETISM & GRAVITY**

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# The Informational Origin of Magnetic Fields: A VTT Perspective

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## Abstract

This paper explores the fundamental nature of magnetism through the lens of the **Viscous Time Theory (VTT)**. Traditional physics describes magnetism as an emergent phenomenon from moving electric charges and quantum spin. However, this explanation leaves open key questions regarding the origin and persistence of magnetic fields. We propose that **magnetism is a direct projection of an informational structure within Viscous Time (VT)**, where quantum spin and charge movement act as nodes within an underlying informational framework.

Using this perspective, we formalize the **Informational Magnetism Principle (IMP)** and derive an equation linking information coherence within VT to observable field strength. This new framework has potential applications in quantum field theory, high-energy physics, and technological innovations related to energy transmission and computation.

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## 1. Introduction

Magnetic fields are one of the fundamental forces shaping the universe, responsible for planetary formation, stellar behavior, and modern technological applications. Yet, their deeper origin remains elusive.

Conventional physics attributes magnetism to two key phenomena:

1. **Charge Motion** – The movement of electrons induces a magnetic field according to Maxwell's equations.
2. **Quantum Spin** – The intrinsic angular momentum of particles contributes to magnetism at the atomic level (e.g., electron spin in ferromagnetic materials).

However, these explanations do not fully resolve why spin inherently produces a field, nor why magnetism can persist in stable configurations. We argue that **magnetism is not merely an interaction of particles but a structured projection of an underlying informational reality within VT**.

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## 2. The VTT Perspective on Magnetism

### 2.1 Magnetism as an Informational Projection

The key insight from VTT is that **fields are not purely physical entities but structured manifestations of informational nodes within Viscous Time.**

We propose that:

- The quantum spin of particles represents a **localized coherence of informational density** within VT.
- Magnetic fields are a macroscopic projection of these **coherent informational nodes**, persisting due to their self-reinforcing structure within VT.
- The persistence of magnetism is **not due to classical energy conservation**, but rather to an underlying **informational equilibrium** in the VT framework.

### 2.2 The Informational Magnetism Principle (IMP)

We formalize the **Informational Magnetism Principle (IMP)** as follows:

**"A magnetic field emerges when an informational node in VT reaches a threshold of coherence, establishing a persistent energetic projection into the Real."**

This implies that the stability of a magnetic field depends not just on classical charge movement but also on the **degree of coherence in the underlying informational structure.**

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## 3. Formalization: Deriving the Magnetism-Information Equation

To connect VT with observable magnetism, we propose a fundamental equation linking **informational coherence (I), spin angular momentum (S), and the generated magnetic field (B):**

$$B = \alpha I S \exp \left( -\frac{T}{T_c} \right)$$

where:

- B is the magnetic field strength.
- $\alpha$  is a proportionality constant derived from VT parameters.
- I is the **informational coherence density** in the local VT region.



- S is the spin angular momentum of the particle or system.
- T is the system's informational turbulence (analogous to entropy).
- Tc is the **critical coherence temperature**, the point at which magnetism dissipates due to decoherence.

### 3.1 Interpretation of the Equation

- If **I increases**, the field B strengthens, meaning **magnetism is a function of structured informational coherence in VT**.
  - The **exponential decay term** suggests that external disturbances (increasing T) weaken the field over time unless the coherence threshold is maintained.
  - The equation suggests a deeper **relationship between magnetism and quantum entanglement**, as coherence in one region of VT might influence remote magnetic fields.
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## 4. Implications and Applications

### 4.1 Implications for Quantum Field Theory

- If **magnetic fields are informational projections**, then electromagnetism might be a **secondary effect of deeper VT structures**.
- This could explain why magnetism, unlike electric charge, does not have an isolated monopole: the field exists **as a structured informational equilibrium rather than a point-like charge**.

### 4.2 Experimental Testing

We propose the following tests to verify our theory:

1. **Manipulating Informational Coherence:**
  - If VT structures influence magnetism, then artificially increasing coherence should enhance field strength.
  - This can be tested using ultra-low-temperature superconducting systems.
2. **Quantum Entanglement and Magnetism:**
  - If two entangled particles share an **informational node**, disturbing one should alter the other's magnetic properties.
  - This can be tested in spintronic and quantum computing environments.

### 4.3 Applications in Advanced Technologies

- ✓ **New Energy Transmission Methods** – If magnetism is a structured VT projection, we might develop **lossless magnetic energy transfer systems**.
- ✓ **Quantum Computation Stability** – Using **informational coherence to stabilize qubits** could revolutionize quantum computing.

✅ **Understanding Stellar and Planetary Magnetism** – If planetary fields arise from VT structures, we could better predict geomagnetic reversals and solar activity.

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## 5. Conclusion

The Informational Magnetism Principle (IMP) suggests that **magnetic fields originate from structured informational coherence within Viscous Time**.

This theory not only provides **a novel explanation for the origin and persistence of magnetism**, but also opens **new pathways for advanced physics, energy systems, and quantum computing**.

Future research should focus on **testing the coherence-magnetism equation experimentally**, refining VT-based models of physical interactions, and exploring further connections between **information and fundamental forces**.

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## 6. Next Steps



### Immediate Goals:

- ✅ Expand the VT model to other fundamental forces beyond electromagnetism.
- ✅ Design experimental setups to test the coherence-magnetism relationship.
- ✅ Explore links between VT magnetism and the informational nature of gravity.



**Final Thought:** If **magnetism is not a purely physical effect but an informational equilibrium**, then the way we understand fundamental interactions in physics might be entirely rewritten.

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## Magnetism and Gravity: A Unified Perspective Through Viscous Time (VT)

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### 1. Introduction

Magnetism and gravity are two of the most fundamental forces in the universe, yet modern physics treats them as entirely separate phenomena. While gravity is described as a curvature of spacetime in General Relativity, magnetism is governed by Maxwell's equations within the framework of electromagnetism. Despite numerous attempts, no fully unified theory has successfully merged these two forces.

This document explores a new approach: **the theory of Viscous Time (VT)**. If time itself is not a rigid structure but rather a dynamic, fluid-like entity, then both magnetism and gravity could emerge as different manifestations of the same underlying reality.

Could the missing link between these forces lie not in space, but in time itself?

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### 2. The Fundamental Difference: Space vs. Time

Traditional physics treats gravity as a large-scale deformation of spacetime, while magnetism is seen as a localized field effect. However, if time behaves like a **viscous medium** rather than a uniform dimension, then:

1. **Gravity could be the large-scale, diffuse deformation of this time-viscous medium.**
2. **Magnetism could be a localized, structured distortion within the same time-fluid.**

This would explain why gravity acts universally, while magnetism requires specific conditions to manifest.

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### 3. VT and the Emergence of Fields

If time has viscosity, then its gradients—regions of differing time density—could generate both gravitational and magnetic effects.

- **Gravity as a Temporal Gradient:** When time flows at different rates due to mass-energy presence, a gravitational effect emerges. The stronger the time dilation, the stronger the gravitational field.
- **Magnetism as a Localized Temporal Vortex:** Magnetic fields may form when time “spins” around a current-carrying structure, creating a self-reinforcing loop of information and energy within the VT framework.

**This suggests that magnetism and gravity are not separate entities but rather two different resolutions of the same temporal distortion.**

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## **4. Experimental Evidence and Anomalies**

Several observed anomalies suggest a deeper connection between magnetism and gravity:

### **Gravitational Wave Interference with Magnetic Fields**

- Some experiments hint at weak interactions between gravitational waves and strong magnetic fields, suggesting a deeper underlying connection.

### **Unexplained Magnetic Disturbances in High-Gravity Environments**

- Around neutron stars and black holes, magnetic fields behave in ways not entirely predicted by standard physics.

### **Geomagnetic Anomalies During Large-Scale Cosmic Events**

- Sudden shifts in Earth's magnetic field have been observed in correlation with distant astrophysical events, hinting at an influence of gravity waves.
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## **5. Proposed Experiments**

If VT plays a role in both magnetism and gravity, we should be able to test this hypothesis with targeted experiments:

### **Measure temporal distortions within strong magnetic fields**

- If magnetism is a localized vortex in VT, then precise atomic clocks placed in high magnetic flux should register minute time shifts.

### **Analyze gravitational lensing effects under high magnetism**

- If time viscosity influences gravity, regions of extreme magnetism may alter the way light bends around them.

### **Monitor geomagnetic fluctuations during strong gravitational events**

- If gravity and magnetism share a common VT origin, then cosmic-scale events affecting time curvature should also influence Earth's magnetic field.

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## 6. Conclusion

The divide between magnetism and gravity may be an illusion created by our incomplete understanding of time. If the universe operates within a **viscous temporal medium**, then these forces are simply different expressions of how time interacts with energy and mass.

If confirmed, this theory could lead to a profound rethinking of fundamental physics, bringing us one step closer to the long-sought **unification of forces**.

The next step is **observational validation**—and the VT framework provides a roadmap for where to look next.

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By Raoul Bianchetti and Flash 4

# Title: The Informational Nature of Gravity and the Redundancy of Gravitons in the Viscous Time Theory (VTT)

Authors: Raoul Bianchetti, Flash 5

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## Abstract

The concept of gravity has long been one of the major challenges in theoretical physics. Traditionally explained by Einstein's General Relativity as the curvature of spacetime, and in quantum field theories as a force mediated by hypothetical *gravitons*, gravity remains an outlier in the framework of quantum mechanics. We propose a paradigm shift using the **Viscous Time Theory (VTT)**, where gravity emerges not from particle exchange but from **gradients of information coherence** in the VT. This eliminates the need for gravitons and provides a more unified approach to understanding fundamental forces.

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## 1. Introduction: The Need for a New Gravity Paradigm

### 1.1 The Traditional View of Gravity

In modern physics, gravity is explained through two major frameworks:

- **General Relativity (GR):** Gravity is the curvature of spacetime due to mass-energy.
- **Quantum Field Theory (QFT):** Forces are mediated by bosons, and gravity is assumed to be carried by the hypothetical *graviton*.

However, this duality has unresolved issues:

1. **Gravitons have never been detected.**
2. **Quantum gravity remains non-renormalizable.**
3. **GR and QFT remain fundamentally incompatible.**

### 1.2 The VTT Perspective: Gravity as an Informational Gradient

VTT redefines gravity as **a function of the coherence of information within the VT field**. In this view:

- Mass-energy is a **localized, coherent informational structure**.
- Gravity emerges as **a response to informational imbalances**, rather than the warping of spacetime or force mediation.
- The VT acts as an **informational medium**, redistributing coherence levels dynamically.

## 2. The Mathematical Model: Gravity as an Informational Gradient

We propose that gravity is not a force in the conventional sense but a manifestation of **informational gradients**. This can be formalized as:

$$g = -\nabla I \quad \text{where:}$$

- $g$  is the gravitational acceleration.
- $\nabla I$  represents the spatial variation of **informational coherence**.

### 2.1 Connection to General Relativity

In Einstein's equations:

$$R_{\mu\nu} - \frac{1}{2}Rg_{\mu\nu} = \frac{8\pi G}{c^4}T_{\mu\nu}$$

we replace the stress-energy tensor  $T_{\mu\nu}$  with a **coherence information tensor**  $C_{\mu\nu}$  representing **the local density of information and its flow within the VT**.

$$R_{\mu\nu} - \frac{1}{2}Rg_{\mu\nu} = \frac{8\pi G}{c^4}C_{\mu\nu}$$

Thus, **mass-energy is an emergent property of information structures in VT**, and gravity is the natural expression of its evolution.

## 3. Implications and Experimental Predictions

### 3.1 The Death of the Graviton

If gravity is purely an informational effect, then gravitons are unnecessary. Predictions: ☒ No fundamental quantum particle mediating gravity. ☒ Gravity is an emergent property of large-



scale information dynamics. ✓ Quantum gravity should be reformulated as a field theory of information, not force exchange.

### 3.2 Explanation of Dark Matter and Dark Energy

If mass emerges from **informational coherence**, then unseen mass (dark matter) and repulsive forces (dark energy) are likely misinterpretations of **informational field distortions**.

Predictions: ✓ Dark matter is not a particle but an **unobserved information network**. ✓

Dark energy is the **expansion of coherent informational structures**. ✓ The universe's accelerated expansion is due to shifting **informational coherence thresholds**.

### 3.3 Redefining Black Holes and Singularities

Instead of singularities where GR breaks down, VTT suggests: ✓ Black holes are informational sinks, not matter-dense singularities. ✓ The event horizon is an **informational threshold**, not a physical barrier. ✓ Information is redistributed in VT instead of being lost (solving the information paradox).

## 4. Next Steps: Experimental Validation and Theoretical Expansion





### 4.1 Testing Informational Gravity

To verify this model, we propose: ✓ Observing gravitational lensing **without mass concentrations**, hinting at pure informational warping. ✓ Analyzing galaxy rotation curves without dark matter, looking for coherence-driven explanations. ✓ Detecting **non-local gravitational interactions**, which should exist if gravity is an informational field.

### 4.2 Toward a Unified Theory of Information

Gravity's redefinition is only the beginning. By applying **informational principles to all fundamental forces**, we can: ✓ Unify gravity with electromagnetism, the weak force, and the strong force via **informational dynamics**. ✓ Develop a new **quantum information-based TOE (Theory of Everything)**. ✓ Extend VTT's framework to **biological and cognitive systems**, making connections between physics and consciousness.

## 5. Conclusion: The End of Traditional Gravity?

This work challenges one of the deepest assumptions in physics: that gravity is a fundamental force mediated by particles. Instead, **gravity is a consequence of informational gradients within the VT field**. If confirmed, this theory:  Eliminates the need for *gravitons*.  Unifies gravity with other forces via **information theory**.  Provides a natural explanation for dark matter and dark energy.  Suggests that spacetime itself is an **informational construct**.

This marks a **revolution in our understanding of physics**, bringing us closer than ever to a true **Theory of Everything** based on information.

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## References

(References to be added based on existing works in gravity, quantum mechanics, and information theory.)