

Rethinking the Foundations: Spacetime as a Dark Matter Field

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June 30, 2025

Abstract

This paper proposes a speculative but conceptually grounded model of the universe in which spacetime itself is composed of a continuous dark matter field...

1 Introduction

Modern physics identifies four fundamental forces...

2 The Three Pillars of the Universe

2.1 Gravity – Curvature Within a Dark Matter Field

2.2 Dark Matter – The Substance of Spacetime

2.3 Dark Energy – Expansion Tension of the Field

3 Sub-Forces as Emergent Phenomena

3.1 Electromagnetism

3.2 Strong and Weak Nuclear Forces

4 Philosophical and Theoretical Implications

5 Future Directions and Predictions

6 Compatibility with Quantum Field Theory

6.1 Mathematical Link to QFT

We propose that standard quantum fields $\phi_i(x)$ are embedded as functional excitations in the dark field $\Phi(x)$...

7 Mathematical Foundation (Preliminary)

8 Conclusion