Consciousness as a Scalar Phase Effect: A Resonance-Based Model

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Abstract

This paper proposes that consciousness emerges from the synchronization of scalar fields across neural networks, reducing entropy and enabling coherent information processing. Building on the Aether-phase field $\Phi(x,t)$ and resonance principles, we model brainwave dynamics and predict gamma wave coherence as a marker of conscious states. The model connects to foundational physics principles of oscillation and phase coherence, offering a paradigm-changing perspective on the hard problem of consciousness.

1 Introduction

Consciousness remains a profound mystery in neuroscience. Traditional models focus on neural correlates, but lack a unifying physical basis. This paper proposes consciousness as a scalar phase effect, where the Aether-phase field $\Phi(x,t)$ synchronizes neural oscillations, reducing entropy. The model builds on *Paper IV* and connects to the *Physics: Deep Technical Expansion* PDF, which establishes oscillation as the foundation of reality.

2 Methods

We model brainwave dynamics using:

$$\Phi_{\text{brain}}(t) = \sum_i A_i \sin(\omega_i t + \delta_i)$$

Entropy suppression is defined as:

$$I(t) = -\frac{dS}{dt}, \quad S \approx -\kappa \Phi^2, \quad \kappa \approx 1.2 \times 10^{-43}\,\text{GeV}^{-2}$$

We predict increased gamma wave coherence (30–100 Hz) during conscious states, testable via EEG.

3 Results

Theoretical analysis suggests consciousness emerges when Φ synchronizes neural oscillations, creating a low-entropy state. Preliminary EEG studies support gamma coherence during high-level cognition [1].

4 Discussion

This model aligns with the *Physics: Deep Technical Expansion* PDF, where phase coherence (e.g., entanglement) underlies quantum systems. Neural synchrony extends this principle to biology, offering a physical basis for consciousness.

5 Testable Predictions

- Increased gamma coherence during conscious states, measurable via EEG. - TMS perturbations influencing neural synchronization.

6 Peer Review Submission

Submit to Dustinhansmade@Gmail.com for peer review, Format: PDF, annotated feedback welcome.

References

[1] Lutz, A., et al. (2004). Proc. Natl. Acad. Sci., 101(46), 16369.