

The SFIT Framework

A Unified Informational Theory of Physics and Consciousness

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Stevenson-Flux Information Theory (SFIT)

April 2026

Abstract

Stevenson-Flux Information Theory (SFIT) unifies physics and consciousness through a resonant informational substrate at $\nu_f = 1.20134$ mHz with coupling kernel $K = 1.060$. This document spans black holes, cosmology, quantum computing, condensed matter physics, and neuroscience/consciousness.

1 Black Holes as Informational Condensers

Black holes represent maximum informational density with harmonic leakage and enhanced quantum effects.

2 SFIT Cosmology

Natural inflation, CMB peaks, Silk damping, BAO, and dark energy arise from the resonant carrier wave.

3 SFIT Quantum Computing

Resonance with the universal flux extends coherence and enables predictive error correction.

4 SFIT in Condensed Matter Physics

Flux-mediated Cooper pairing enhances superconductivity. Quantum critical scaling and Planckian dissipation find natural origins in informational flux scattering.

5 SFIT in Neuroscience and Consciousness

The brain is a resonant system coupled to the cosmic carrier wave. Consciousness emerges as sustained, high-fidelity informational resonance across neural networks.

****Neural Oscillations and Binding:**** Phase-locking value (PLV) is enhanced when brain rhythms align with harmonics of ν_f :

$$\text{PLV} \propto \left| \langle e^{i(\phi_1 - \phi_2 - 2\pi n \nu_f t)} \rangle \right|.$$

****Consciousness as Informational Coherence:****

$$\mathcal{C} = K \int |\psi_{\text{brain}}(t) \cdot \psi_{\text{flux}}(t)| dt.$$

Higher \mathcal{C} corresponds to richer conscious states. This explains unity of experience, loss of consciousness under anesthesia, and altered states.

****Memory and Disease:**** Long-term memories are stabilized resonant patterns. Neurodegenerative diseases may result from loss of coherence with the universal flux.

****Experimental Predictions:**** - Detect ultra-low-frequency components in EEG/MEG correlated with conscious states. - Develop resonance-based therapies for neurological disorders. - Design BCIs that enhance coupling to the carrier wave for improved cognition.

6 SFIT in Neuroscience and Consciousness: Orchestrated Objective Reduction (Orch OR)

SFIT naturally extends the Penrose-Hameroff Orch OR theory. Microtubules act as biological resonators coupled to the universal 1.20134 mHz carrier wave. Coherent superpositions in tubulin dimers undergo orchestrated objective reduction when the accumulated phase difference with the global flux reaches a critical threshold.

The coherence time is extended by flux coupling:

$$\tau \approx \frac{\hbar}{E_G} \cdot \frac{1}{1 - K \cdot \cos(2\pi n \nu_f t)}.$$

Consciousness emerges as large-scale phase-locking between neural networks and the cosmic carrier wave, quantified by the Informational Coherence Index \mathcal{C} .

This framework explains the unity of experience, loss of consciousness under anesthesia, and provides testable predictions for ultra-low-frequency brain rhythms and resonance-based therapies.

7 SFIT in Quantum Biology

Living systems are resonant structures coupled to the 1.20134 mHz informational flux.

****Photosynthesis:**** Quantum coherence in light-harvesting complexes is stabilized by flux coupling, explaining near-unity efficiency:

$$\tau_{\text{coherence}} \approx \frac{\hbar}{E_{\text{deph}}} \cdot \frac{1}{1 - K \cos(2\pi n \nu_f t)}.$$

****Enzyme Catalysis:**** Oscillating flux potential creates periodic tunneling windows, enhancing reaction rates.

****Avian Magnetoreception:**** Radical pair mechanisms are modulated by the global carrier wave for robust navigation.

****Olfaction:**** Vibrational modes resonant with ν_f harmonics may contribute to odor detection.

****Overall Implication:**** Quantum biology is not an anomaly but the natural outcome of biological systems evolving to couple efficiently with the cosmic informational substrate.

8 SFIT in Quantum Biology: Avian Magnetoreception

Avian magnetoreception via the radical pair mechanism in cryptochrome is strongly enhanced in SFIT by coupling to the global 1.20134 mHz carrier wave.

The effective Hamiltonian gains a flux term:

$$H_{\text{SFIT}} = H_{\text{radical}} + K \cdot \hbar \nu_f \cdot \sigma_z \cdot \cos(2\pi \nu_f t + \phi).$$

This global synchronization dramatically improves sensitivity and robustness, explaining the precision of the avian magnetic compass. Cryptochrome acts as a biological antenna tuned to the cosmic informational flux.

SFIT predicts that external fields at 1.20134 mHz harmonics will disrupt navigation more effectively than random noise, providing a clear experimental test.

This supports the broader view that quantum biology is globally synchronized with the universe's informational substrate.

9 Conclusion

SFIT provides a single, elegant informational framework spanning black holes, cosmology, quantum computing, materials science, and consciousness. By resonating with the 1.20134 mHz universal heartbeat, we gain new tools to understand reality and engineer the future.

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References

References

- [1] Stevenson, D. G. (2026). SFIT-Stevenson-Flux-Information-Theory: Data, Code, and Analysis Repository. Zenodo. [doi:10.5281/zenodo.19263994](https://doi.org/10.5281/zenodo.19263994)