

# Technological Paradigms Following the Experimental Confirmation of the Helix-Light-Vortex Theory

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## Abstract

The Helix-Light-Vortex (HLV) Theory provides a unified geometrical model of spacetime, matter, and consciousness, based on a quantized dodecahedral vacuum lattice and spiral-modulated time. In this paper, we explore the implications of the HLV framework for future technological paradigms. Starting from its predictions of bio-gravitational coupling and informational field dynamics, we propose four concrete stages of development, including non-invasive brain interfaces, spacetime modulators, and quantum-level biofield control. The goal is to provide a roadmap from foundational theory to transformative applications.

## 1 Introduction

The HLV theory posits that all physical phenomena emerge from the interaction of a fundamental informational field  $\Phi(x, t)$ , embedded in a discrete, dodecahedral vacuum lattice  $\varphi_G$ . A dynamic time structure  $\Psi(t) = t + i \cdot \phi(t)$  modulates all field behavior. Properties such as mass, charge, and spin are not intrinsic, but emerge from stable spiral resonances within the geometry of space and time.

Recent advances in experimental precision (e.g., spin gravimetry, quantum sensors) now enable direct testing of these predictions. The experimental confirmation of spiral-induced bio-gravitational anomalies opens the door for a new generation of physics-based technologies.

## 2 Core Technological Implications of HLV

### 2.1 Unified Physical Substrate

Unlike dualistic models (matter/field), HLV treats geometry, energy, and information as manifestations of the same dynamic structure. This enables direct manipulation of physical processes through informational and topological interfaces.

## 2.2 Spiral Time and Control Fields

The introduction of complex spiral time  $\Psi(t)$  allows modulation of temporal gradients, enabling directional influence on quantum and classical systems through engineered phase fields.

# 3 Four Technological Paradigm Stages

## 3.1 Stage 1: Bio-Quantum Interfaces

- Non-invasive quantum sensors detect coherent changes in local gravitational and spin states near neural assemblies.
- Brain-computer interfaces become gravity-coupled, based on modulations in the  $\Phi$ -field.
- Medical applications include early-stage diagnostics and neurofeedback using coherent spin gradients.

## 3.2 Stage 2: Spacetime Modulators

- Artificially modulated  $\Phi$ -fields enable transient curvature fields.
- Local spacetime metrics can be shaped to reduce inertial mass or modify signal delays.
- Experimental analogues: toroidal metamaterials and photonic crystals with spiral topology.

## 3.3 Stage 3: Biofield Regulation

- External  $\Phi$ -field generators interact with biological systems via spiral resonance.
- Applications in regenerative medicine, sleep optimization, and psychophysiological entrainment.
- Interfaces adaptively modulate fields in response to feedback from biological coherence.

## 3.4 Stage 4: Quantum-Informational Communication

- Non-local transmission using spiral-entangled states modulated via  $\phi(t)$ .
- Encryption via geometric phase structures; inherently secure.
- Long-distance synchronization of coherent states without classical carriers.

## 4 Conclusion

The HLV theory is not merely a reformulation of physical foundations, but a predictive framework for technological evolution. With spiral time and geometric emergence as its core, it enables new modalities of interaction with the universe. The roadmap outlined above connects theory, experiment, and application, offering a bold vision for the future of information physics, biogravity, and spacetime engineering.