

Torsion Fields vs Phase-Coherence / Gauge Potential Physics (Illustrated)

This enhanced document includes illustrations and additional context from Hal Puthoff's scalar/vector potential communication designs. It is meant for graduate seminar use and compares Russian torsion field theory with mainstream gauge-potential physics.

Illustration 1: Aharonov–Bohm setup showing phase shift around solenoid.

Illustration 2: Spin precession diagram showing phase accumulation and resonance.

Illustration 3: Conceptual schematic of Puthoff's coil + plate potential transmitter.

Illustration 4: Timing curve showing optimal 3 ms window aligned with theta cycle.

Aspect	Russian Torsion Field Theory	Mainstream Phase-Coherence Physics	Experimental Status
Underlying Field	Postulated fifth force coupled to spin	Gauge potentials with spin coupling	No confirmed fifth force
Math Framework	Affine connections with torsion potential	Gauge-invariant field theory (AB effect)	Potential effects verified
Claimed Effects	Superluminal signaling, space memory	Phase shifts limited by coherence	AB effect observed; others unverified
Biological Links	Modulation of DNA, remote bioeffects	Microwave coherence, Fröhlich-Sondheimer	Some EEG/EPH correlations reported
Phase Coherence	Torsion locks phases	Phase-locking via shared vector potential	Well established in lasers, BECs
Information Transfer	Unshieldable spin-information transfer	Phase-dependent interference needed	No confirmed unshieldable channel
Acceleration / Rhythms	Excites torsion waves	Sweeps through resonance	Used in NMR, ESR, coherent control
Timing Windows	3 ms pauses optimal	Matches neuronal phase-resetting	Supported by neuroscience phase-reset curves

Key Insight: Puthoff's potential transmitters and Persinger/Kernbach rotating-field setups may be two engineering routes to exploit the same principle: phase manipulation via vector potentials. The theoretical challenge is separating confirmed phase effects (Aharonov–Bohm) from speculative torsion claims, and focusing on reproducible, engineerable phenomena.