Torsion Fields vs Phase-Coherence / Gauge Potential Physics

This document compares Russian *torsion field* theory with mainstream gauge-potential and phase-coherence physics. It highlights where the two frameworks converge scientifically and where torsion theory diverges into speculative territory.

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 (Aharonov–Bohm)	Gauge potential effects verified
Claimed Effects	Superluminal signaling, space memory	Phase shifts limited by coherence	AB effects observed; superluminal unverified
Biological Links	Modulation of DNA, remote bioeffects	Microtubule coherence, Fröhlich condensates	EEG/pH correlations reported
Phase Coherence	Torsion locks phases	Phase-locking via shared vector potentials	Well established in lasers, BECs
Information Transfer	Unshieldable spin-information channel	Phase-dependent interference networks	No unshieldable channel yet confirmed
Acceleration / Rhythms	Excites torsion waves	Sweeps through resonances used in NMR/ESR control	Well supported in coherent control
Timing Windows	3 ms pauses optimal	Matches neuronal phase-reset windows	Supported by neuroscience phase-reset curves