# Torsion Fields vs Phase-Coherence with Mathematical Context

This enhanced version includes mathematical equations and phase integrals for graduate seminar use.

### Aharonov–Bohm Effect:

$\Delta\phi$ = (q / ■) ■ A · dl

Where q is charge, ■ is reduced Planck constant, and A is the vector potential.

### Berry Phase for Spin Systems:

$\gamma$ = i ■ ■$\psi$(R)|$\nabla$_R$\psi$(R)■ · dR

This shows phase accumulation in parameter space R, relevant to coherent spin precession.

### Timing & Resonance:

f ≈ 1 / (T) → T ≈ 3 ms ⇒ f ≈ 333 Hz

A 3 ms pulse corresponds to ~333 Hz repetition, overlapping with theta-gamma coupling windows.

### Puthoff's Field-Free Transmission:

Uses coils + capacitor plates to cancel E and B fields while leaving A ≠ 0,

allowing potential-only communication.

### Acceleration Significance:

Frequency sweeps d$\omega$/dt ≠ 0 move system through resonance bands,

enhancing phase-locking before decoherence dominates.