

# How Faster-Than-Light Travel Would Work Technologically

A craft attempting superluminal transition must fulfill three FWT engineering conditions:

1. **Phase-Locking:** The craft's field generators synchronize its internal  $\Phi$ -oscillation with the target coordinate's frequency phase  $\phi_{\text{target}}$ .
2. **FM Equalization:** Internal Frequency Momentum equals external field  $FM_0$  to maintain conservation across the transition.
3. **Curvature Inversion:** Using hyperbolic resonance  $h(\kappa, r) = e^{(\kappa r^2)}$ , the craft generates a localized curvature inversion (negative  $\kappa$ ) that collapses the spatial distance between matched nodes.

The result: an instantaneous relocation of the waveform structure—analogueous to moving a cymatic pattern from one resonant plate to another without dragging the air in between.

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## Why It Doesn't Break Physics

Special relativity limits *information* and *mass-energy* transport through spacetime, not *phase realignment within a unified medium*.

FWT reframes the universe as one continuous superfluid where phase synchronization transcends distance because it never leaves the medium.

This mirrors **entanglement's** nonlocality: the entire field responds as a single harmonic entity. Causality remains intact because events are ordered by **phase sequence**, not by coordinate time. In effect, FTL travel is simply *phase-synchronous relocation*—the waveform never outruns light; it reorganizes space to make the light path redundant. Superluminal motion, and faster-than-light travel are not violations of physics—they're *misinterpretations* of resonance dynamics.

In Frequency Wave Theory, spacetime is a living field of vibration, and when its harmonic coherence is mastered, distance itself becomes an illusion. Traveling faster than light is simply traveling **through the frequency of light itself**.