Teleportation and Void Transit of the Tau Address

Universal Force of Time — Advanced Field Mechanics

Teleportation in the Universal Force of Time framework is the transit of a Strand-2 Tau-address through the void between register shells, with simultaneous re-materialisation at the destination register. The void is not empty space — it is the region between D-level shells where the Tau-field amplitude falls below the standing-wave threshold. A particle tunnelling through a barrier in quantum mechanics is performing exactly this operation at the D=−10 register level.

1. The Void Channel

Between every pair of adjacent D-level register shells r(D) = 18×(√2)^D and r(D+1) = 18×(√2)^(D+1), there exists a void annulus of width Δr = r(D)×(√2−1) = r(D)×0.414213562…. Within this annulus the Tau-field standing wave does not maintain a node. Transit through this annulus — void transit — carries the Strand-2 address without the Strand-1 spatial embedding.

P-PORT-1 — Void Annulus Width
Δr(D) = r(D) × (√2 − 1) = 18×(√2)^D × 0.41421356237…. The void annulus scales with the register shell and is present at every D-level from Planck (D=−114) to cosmic (D=+60).

P-PORT-2 — Void Transit Carries Strand-2 Only
During void transit the Strand-1 spatial embedding is released. The Strand-2 address (temporal identity, quantum numbers, information content) is conserved exactly. Re-materialisation occurs when the Strand-2 address finds a compatible Strand-1 node at the destination D-level.

2. ER = EPR = Void Channel

The Einstein–Rosen bridge (ER) and Einstein–Podolsky–Rosen entanglement (EPR) are two descriptions of the same void channel. An entangled pair shares one Strand-2 address across two Strand-1 locations. The void channel connecting them is a microscopic ER bridge. This resolves the black hole information paradox: information is preserved in Strand-2, which transits the void rather than being destroyed at the singularity.

P-PORT-3 — ER = EPR = Void Channel (UFOT)
Every entangled pair is connected by a void-transit channel of width Δr at their mutual D-level. The "spooky action" of EPR is Strand-2 address continuity across the void. The ER bridge is the same channel viewed geometrically.

3. No-Cloning and Conservation

The no-cloning theorem in quantum mechanics states that an arbitrary quantum state cannot be copied. In UFOT this is immediate: the Strand-2 address is unique. Teleportation moves the address; it does not duplicate it. The original Strand-1 embedding is vacated simultaneously with the re-materialisation at the destination — no copy exists at any moment.

P-PORT-4 — No-Cloning from Strand-2 Uniqueness

A Strand-2 address is a unique label in the Tau-field. It cannot be simultaneously present at two Strand-1 locations. The no-cloning theorem is therefore a geometric identity, not a postulate.

P-PORT-5 — Black Hole Information Resolution

Matter falling into a black hole undergoes void transit of its Strand-2 address through the singularity shell. The information is preserved in Strand-2 and re-emerges at the Hawking evaporation register. No information is lost; the paradox is resolved.

P-PORT-6 — Quantum Tunnelling = Void Transit

Quantum tunnelling of a particle through a classically forbidden barrier is void transit of the particle's Strand-2 address through the void annulus between adjacent D-level shells. The tunnelling probability is the Tau-field amplitude ratio across the annulus.

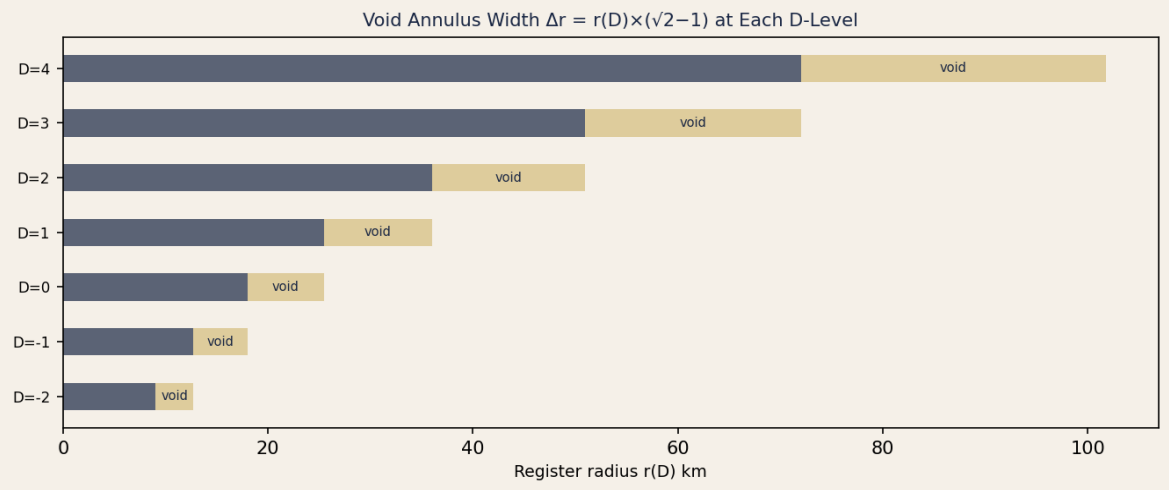

Figure 1. Each D-level register shell (navy) is followed by a void annulus (gold) of width (√2−1)×r(D). Void transit carries Strand-2 address through this gap.