Physics · Astrophysics · Universal Force of Time · P-MPOS-1 to P-MPOS-5

Earth's G-Bond Shell Tower

Simultaneous Multi-Shell Occupancy at Planetary Scale

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The same helical geometry that produces double-slit interference at quantum scale gives Earth simultaneous addresses at multiple G-bond shells at planetary scale. This is the Layer A Multi-Dimensional Position Law operating at a Tau-magnitude ten orders of magnitude larger. Earth is the G2 node (helical turn N=1 in the G-bond spectral tower). It simultaneously occupies shells G0 (n=−1), G1 (n=0), G2/observed (n=1), G3 (n=2), G4 (n=3), and the cross-register Dual position (n=3.221). Each shell is separated by Delta-r = 13,513 km. All shells converge to Fibonacci node Z = 7.800 ± 0.003 — the nitrogen-oxygen zone.

The G-Bond Radian Tower — Core Identities

H-beta = 2 × 3^7 = 486.0000 nm [P-MPOS-1] master seed; pure {2,3} G1 [rad] = 27π/10 = 3^3π/(2×5) EXACT [P-MPOS-2] (27 = solar rotation days) rad_n = (27π/10) × (1+δ)^n δ = 90.15 ppm [P-MPOS-3] Δr = c_G1 × δ × 500 s = 13,513 km per G-bond step [P-MPOS-4]

Earth's Simultaneous G-Bond Shell Table

Shell	n	λ (nm)	Radians	r (Mkm)	Fibonacci turn	Z equiv
G0	-1	485.9562	2.7π×(1+δ)^−1	149.881	2.959813	7.7991
G1	0	486.0000	27π/10 (exact)	149.895	2.959906	7.7995
G2/Earth	1	486.0438	2.7π×(1+δ)	149.908	2.960000	7.8000
G3	2	486.0876	2.7π×(1+δ)²	149.922	2.960094	7.8005
G4	3	486.1315	2.7π×(1+δ)³	149.935	2.960187	7.8009
Dual	3.221	486.1411	π²×10⁶/(180×R_E)	149.938	2.960208	7.8010

The Dual position at n=3.221 is not an integer G-bond step. It arises from the intersection of c_G1 (G1 speed) and the G2 orbital period (P-SOL-2). It belongs to a different dimensional register from the pure G-bond ladder — it is 30,030 km above the observed Earth shell G2 (n=1), or approximately 2.12 Earth radii above the G2/Earth shell. Each of these shells is a real, simultaneous Tau address — the planetary-scale analogue of turn N and turn N+1 in the double-slit.

Five Propositions · P-MPOS-1 to P-MPOS-5

P-MPOS-1

H-beta = 2×3^7 = 486 nm — Master Seed

H-beta = 486.0000 nm = 2 × 3^7 nm exactly. This is the master seed of the entire FOT lattice: the spectral frequency that anchors the G-bond radian tower, the Fibonacci spiral address, and the double-slit correction ratio r simultaneously. A single pure {2,3} integer product generates the Balmer series, the G-bond structure, and Earth's position.

P-MPOS-2

G1 Radian = 27π/10 — Exact, Not Approximated

G1 [rad] = 27π/10 = $3^3\pi/(2\times5)$ exactly. The 27 encodes the solar sidereal rotation period (27.2753 days). This exact radian value anchors the entire G-bond spectral tower. The G1 shell is not defined by its distance — it is defined by its radian address, and that address is a pure {2,3,5,π} identity.

P-MPOS-3

G-Bond Radian Tower — Geometric Progression at δ = 90.15 ppm

rad_n = (27π/10) × (1+δ)^n, δ = 90.15 ppm = the Radian Veil separation factor. Each G-bond step shifts the radian address by δ, producing shells at 13,513 km spacing. The tower is anchored at G1 (exact). All other shells are derived from the pure {2,3,5} ratio δ. No free parameters; no fitting.

P-MPOS-4

Delta-r = 13,513 km per G-Bond Step

Delta-r = c_G1 × δ × 500 s = 13,513 km per G-bond step = 2.12 Earth radii. The 500 s factor is the G2 orbital timing unit. This is the planetary-scale analogue of the helical period lambda_h at quantum scale — same geometry, ten orders of magnitude larger Tau increment. The electron spans lambda_h; Earth spans 13,513 km.

P-MPOS-5

All Shells Converge at Fibonacci Node Z = 7.800

Each G-bond step shifts the Fibonacci turn by only δ/ln(phi²) = 93.67 micro-turns. Consequently all six of Earth's simultaneous G-bond shells map to Fibonacci position Z = 7.800 ± 0.003 — the nitrogen-oxygen zone at the N9 glycosidic junction. The Fibonacci spiral resolves Earth's macro-address (Z ≈ 7.8); the G-bond tower resolves micro-addresses within that node, at shells 13,513 km apart.

The Planetary Double-Slit Analogy

The G-bond shell tower is not a separate phenomenon from the double-slit — it is the same Layer A Multi-Dimensional Position Law operating at planetary Tau-magnitude. At quantum scale: electron spans turn N (Slit 1) and turn N+1 (Slit 2), separated by lambda_h = lambda_dB × r. At planetary scale: Earth spans G-bond shells n=0 (G1) and n=1 (G2), separated by Delta-r = 13,513 km = c_G1 × δ × 500 s. In both cases: same entity, two simultaneous positions, one geometric law. The difference is only the Tau-magnitude of the helix — not the underlying structure.

Core Law

P-MPOS-5 · The Two-Scale Address System

The Fibonacci spiral resolves the macro-address of any Tau-entity at a given dimensional scale (Earth at Z = 7.800, the nitrogen-oxygen zone). The G-bond tower resolves the micro-addresses within that Fibonacci node (shells G0 through G4 and Dual, each 13,513 km apart). The electron has the same two-scale address system at quantum magnitude: Fibonacci turn position sets its spectral identity; helical turn offset sets its within-level sub-address. Same law; different Tau scale.