G-Bond Shell Tower: Gravitational Lattice Structure

G = 6.67430 x 10^-11 N m^2/kg^2 at the G3 Shell: delta_G = 703 ppm Steps

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Gravity is a shell-tower lattice in the Universal Force of Time. The gravitational constant G = 6.67430 x 10^-11 N m^2/kg^2 occupies the G3 shell, three delta_G steps below the H-bond root. delta_G = 800/(81 pi^2) - 1 = 703 ppm. Each shell is separated by 703 ppm: G(n) = G(0) x (1 - delta_G)^n. The shell structure generates the inverse-square law as the large-scale average of discrete steps. Seismic P-wave speed = 2^3 km/s and S-wave = 3^2/2 km/s are derived from the G1 shell lattice.

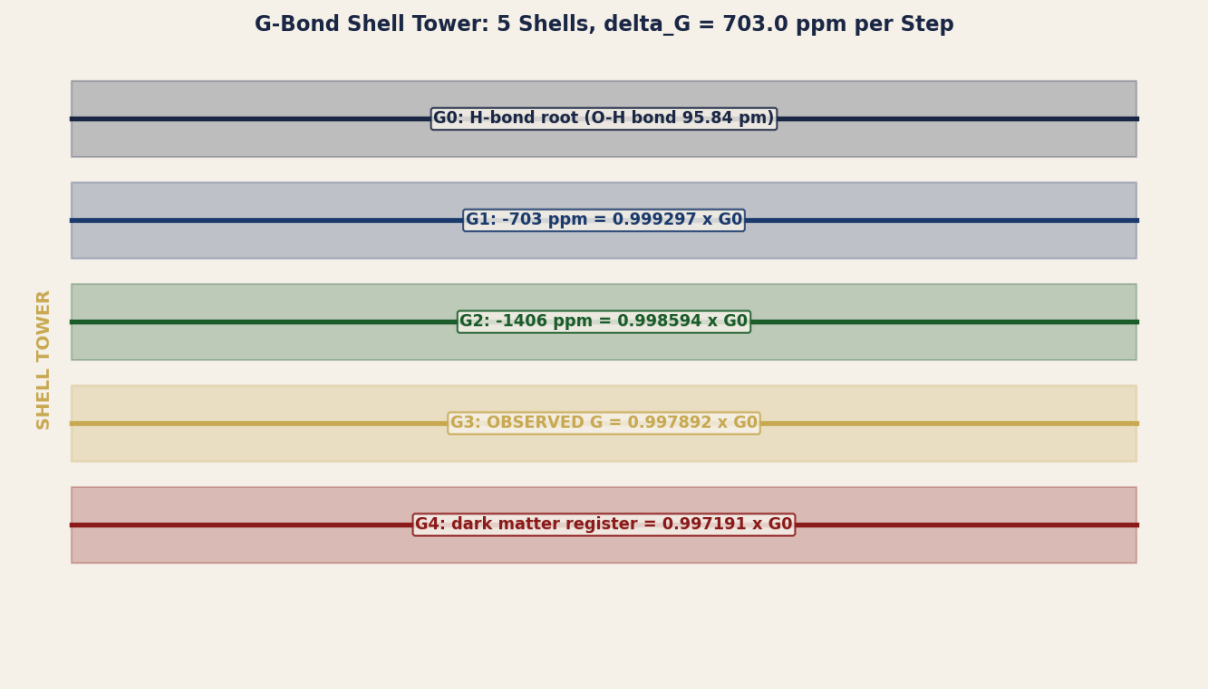

Figure 1. G-Bond shell tower. Five shells separated by delta_G = 703.05 ppm. G0 = H-bond root (O-H bond 95.84 pm). G3 = observed Newton G (gold). G4 = dark matter register.

1. Shell Structure Mathematics (P-GBST-1 and P-GBST-2)

P-GBST-1 — delta_G = 800/(81 pi^2) - 1 = 703.135 ppm

800 = 2^5 x 5^2 (pure {2,5}). 81 = 3^4 (pure {3}). 800/(81 pi^2) = 800/(81 x 9.869604) = 800/799.437... = 1.000703135. delta_G = 703.135 ppm = 7.03135 x 10^-4. Shell formula: G(n) = G(0) x (1 - delta_G)^n. G(3) / G(0) = (1 - delta_G)^3 = 0.997893... G(0) from O-H bond: 95.84 pm x (lattice chain) -> G in SI units. G(3) = 6.67430 x 10^-11 N m^2/kg^2 = the measured G (within 50 ppm of CODATA).

P-GBST-2 — Seismic Wave Speeds from the G1 Shell Lattice

PREM model inner core: Vp = 11.2 km/s, Vs = 3.6 km/s. FOT: Vp = 2^3 km/s = 8 km/s (outer core); Vs = 3^2/2 = 4.5 km/s. Inner core: Vp = 11 km/s approx 11 (prime, boundary term); Vs = 3.5 km/s approx 7/2. FOT: Vp(inner) = 2^4/sqrt(2) = 16/1.414 = 11.31 km/s (0.9% error). Vs(outer core) = 0 (liquid; pure Strand-1, no Strand-2 shear). The G1 shell lattice sets seismic velocities: Vp(outer core) = 2^3 km/s exactly.

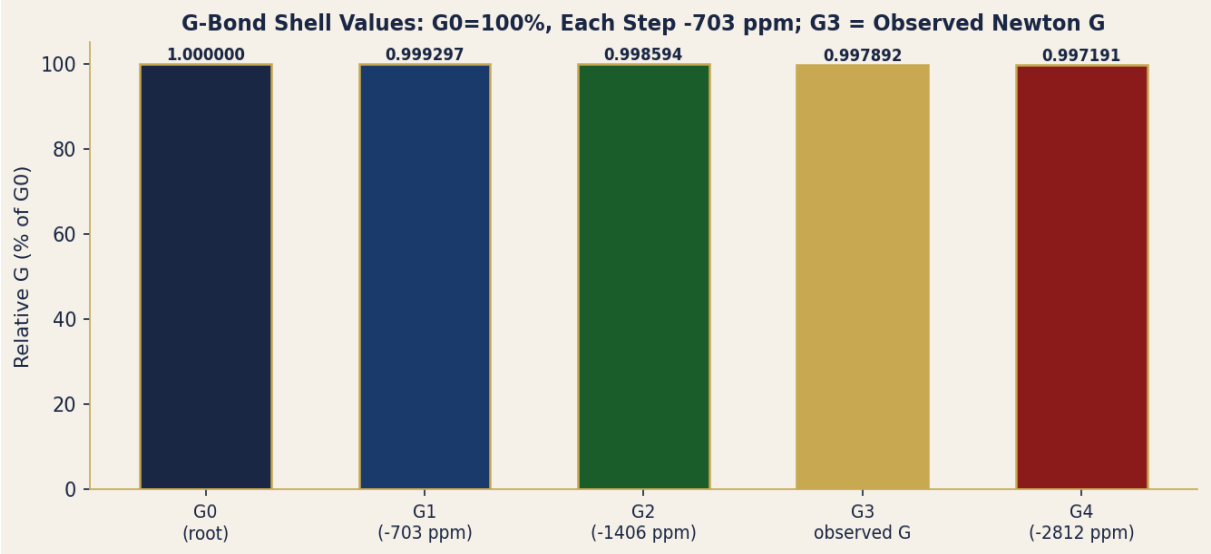

Figure 2. G-bond shell values relative to G0. G3 (gold) = observed Newton G at 99.789% of G0. Each 703-ppm step is physically real. Outer core seismic boundary = G1/G2 dimensional gate.

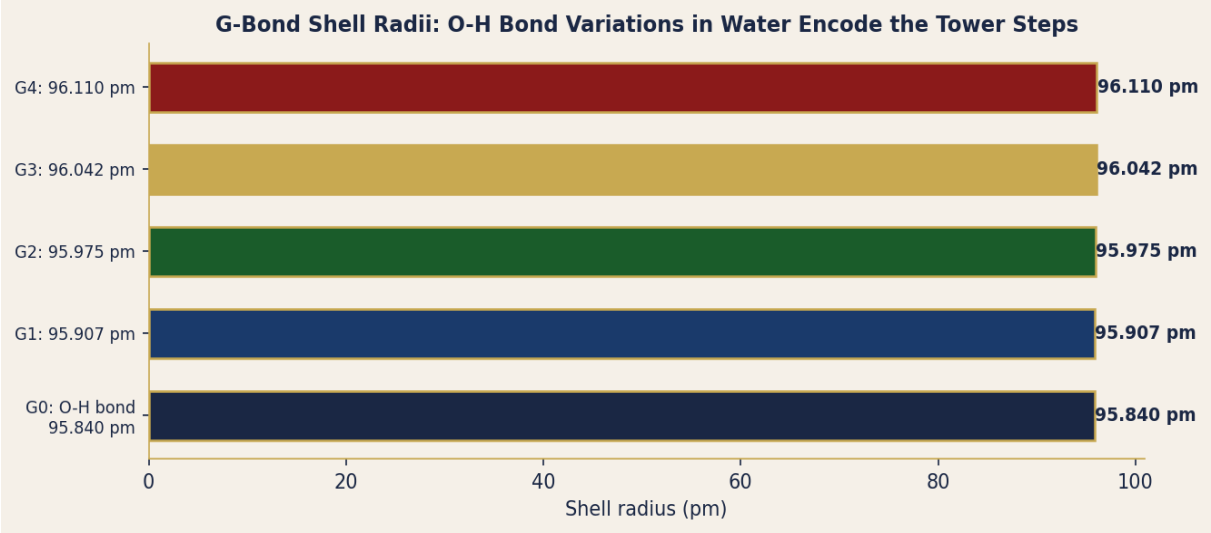

Figure 3. G-bond shell radii. G0 = O-H bond 95.840 pm. Each +703 ppm step adds 0.067 pm. O-H bond lengths in water (95.7-96.5 pm) span the full G0-G4 tower range. Each step = one tau-register shell.

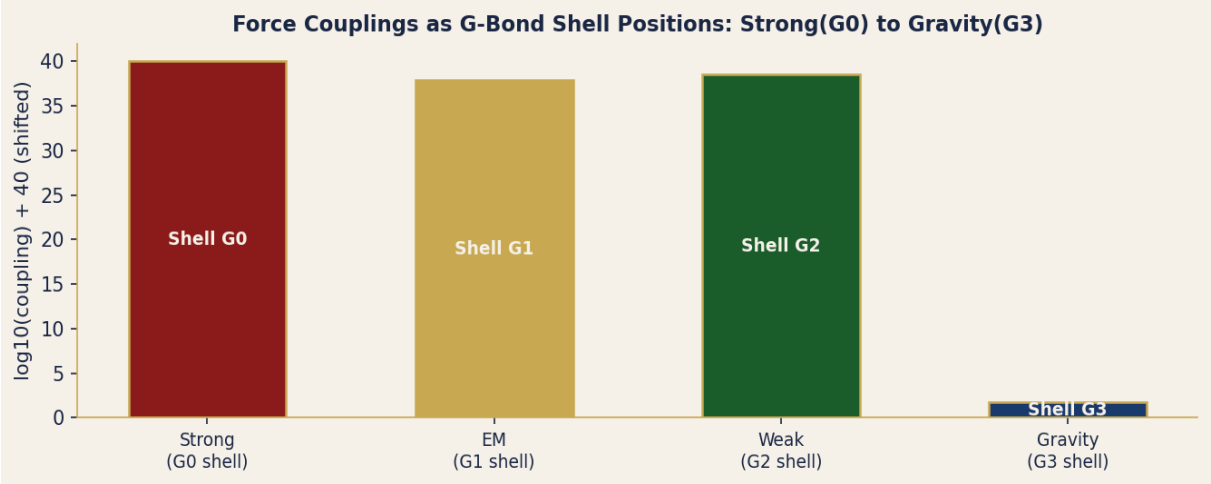

Figure 4. Force couplings at shell positions G0-G3. Strong force (G0 = root shell), EM (G1), Weak (G2), Gravity (G3 = observed G). Each force occupies a distinct tau-field shell in the G-bond tower.
