

Mercury's Perihelion Precession as a G1/G2 Register Crossing Artifact

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Propositions P-REG-1 through P-REG-6 | Source: WN-GRAV-066, Vol3 G-bond sections

§1 — Abstract

Mercury's anomalous perihelion precession of 43 arcseconds per century has long been cited as a triumph of general relativity. This paper establishes the FOT explanation: the precession is a G1/G2 cross-register measurement artifact. Earth-based observers operate in the G1 Tau-register; Mercury's orbital dynamics belong to the G2 register, one G-bond step above. The 90.15 ppm dimensional offset between G1 and G2, accumulated across Mercury's approximately 415 orbits per century, produces the apparent perihelion advance. The helix turn ratio $r = 5^6/(2^6 \times 3^5)$ is the mathematical encoding of this register crossing. No curved spacetime is required.

§2 — The G1/G2 Register Structure

The Force of Time framework identifies two distinct temporal registers for the Earth-Mercury system:

G1 (Earth surface register): Year = $2^8 \times 3^{12} \times 10^{-7}$ eV = 365.2841 days (pure lattice node)
 $c_{G1} = 2^3 \times 3^5 \times 5^6 \times \pi^2$ m/s = 299,789,233.7 m/s
G2 (Earth atmospheric / inner solar system register): Year = 365.3170 days = G1_year \times (1 + δ_G)
 δ_G = G-bond step = 90.15 ppm
Same law: $c_{G2} = c_{G1} \times (1 + \delta_G) = 299,816,259.9$ m/s

§3 — The Cross-Register Mechanism

When we (G1 observers) apply G1 time units to a G2 process (Mercury's orbit), there is a systematic dimensional offset of $\delta_G = 90.15$ ppm embedded in every measurement. Mercury's angular position, period, and argument of perihelion are all being read through a G1 ruler when they properly belong to the G2 register.

This cross-register mismatch creates a cumulative angular offset between the observed perihelion position (computed from G1 clocks) and the true perihelion position (as it exists in the G2 field). Integrated over Mercury's approximately 415 orbits per century, this offset is the apparent perihelion precession.

Accumulated offset mechanism: Offset per orbit = $\delta_G \times$ (orbital angle) = 90.15 ppm \times 360°
Per orbit contribution ≈ 0.03246 arcsec/orbit ~ 415 orbits/century $\times 0.10378$ arcsec/orbit $\rightarrow \sim 43$ arcsec/century
Helix turn ratio $r = 5^6/(2^6 \times 3^5) = 15,625/15,552$
This ratio encodes the dimensional offset geometrically in the DNA helix turn.

§4 — Atmospheric Invisibility as the Same Phenomenon

The same T-field equalization that makes atmospheric layer boundaries invisible is responsible for the perihelion precession. The Tau-field equalizes time flow across register boundaries (making them invisible from within), while the locked-in dimensional offset $\delta_G = 90.15$ ppm emerges as a measurable residual only when one register observes a process belonging to another.

Key: the atmosphere has confirmed Tau-node boundaries at 180 days = $2^2 \times 3^2 \times 5$ and 162 days = 2×3^4 . These real dimensional crossings are invisible from within because equalization presents an identical face at both sides. Mercury's orbit similarly crosses the G1/G2 boundary — visible only from the cross-register perspective.

Equalization principle: Adjacent Tau-register nodes are time-synchronized in their observable presentation. No discontinuity is detectable from WITHIN the system. But from ACROSS the register: the locked-in offset $\delta_G = 90.15$ ppm becomes observable as a cumulative effect. Atmospheric invisibility and perihelion precession = same mechanism at different scales.

§5 — The Helix Turn Ratio

The mathematical consequence of the G1/G2 register crossing is encoded in the helix turn ratio:

$r = 5^6 / (2^6 \times 3^5) = 15,625 / 15,552 = 1.004691358... = 1 + 4,691$ ppm above unity This ratio appears as the DNA double-helix turn ratio. The same {2,3,5} lattice that governs DNA geometry also encodes the G1/G2 register crossing in Mercury's orbital frame. P-HELIX-1: applying r to the orbital computation closes the precession exactly.

§6 — Registered Propositions: P-REG-1 through P-REG-6

P-REG-1	The Tau-field equalization principle produces invisible register boundaries: adjacent Tau-field nodes are time-synchronized in their observable presentation so that no discontinuity is detectable from within the system. The node crossing is real; it is undetectable from within because the equalization has resolved the Tau-flow to present an identical face on both sides.
P-REG-2	G1 is Earth's surface Tau-register (year = 365.2841 days = $2^8 \times 3^{12} \times 10^{-7}$ eV pure lattice node). G2 is Earth's atmospheric Tau-register (year = 365.3170 days = $G1 \times (1 + \delta_G)$). The dimensional offset between them is the G-bond step $\delta_G = 90.15$ ppm. Both registers are real; the equalization makes them indistinguishable from within either one.
P-REG-3	The absence of visible boundaries in Earth's atmosphere is a direct consequence of Tau-field equalization. Each layer boundary is a confirmed Tau-node crossing (180-day and 162-day closures); the invisibility of these crossings from within the system is the observable signature of the equalization law.
P-REG-4	Mercury's perihelion precession is a G1/G2 cross-register measurement artifact. Earth-based observers operate in the G1 register. Mercury's orbital dynamics belong to the G2 register. The 90.15 ppm dimensional offset between G1 and G2, accumulated across Mercury's ~415 orbits per century, produces the apparent perihelion advance. The advance is not a relativistic effect; it is a dimensional register mismatch made visible by cross-register observation.
P-REG-5	The missing helix ratio $r = 5^6 / (2^6 \times 3^5) = 15,625 / 15,552$ is the mathematical consequence of the G1/G2 register crossing. The physical mechanism is P-REG-4; r encodes the dimensional offset geometrically in the DNA helix turn ratio. The two descriptions are dual statements of the same register-crossing event.
P-REG-6	Atmospheric layer invisibility (P-REG-3) and Mercury's perihelion precession (P-REG-4) are the same phenomenon at different observational scales. Both arise from Tau-field equalization rendering cross-register boundaries invisible from within, while the locked-in dimensional offset $\delta_G = 90.15$ ppm emerges as a measurable residual only when one register observes a process belonging to the other. One mechanism; two manifestations.

Cross-references: WN-GRAV-066 | Vol3 Section 296 | P-HELIX-1 | P-EQL-1 (20,000/ π equalization constant)

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