Planetary Time Equalization

H-Bond Tension as Universal Tau-Synchroniser · d² Cancellation (P-TEQ-10) · Ecliptic Flatness as Geometric Signature

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P-TEQ-1 The Universal Tau-Time Claim

In conventional relativity, each planet experiences its own proper time, differing from other planets by gravitational time dilation and velocity-dependent terms. In the Force of Time framework this is rejected: all planets sharing the same solar Tau-field node oscillate on a single universal Tau-time. Local density variations produce what appear to be time-dilation effects, but these are changes in Tau-density, not changes in the flow of time itself. The conservation law dSigmaTau = 0 prevents any genuine fragmentation of Tau across the solar system.

P-TEQ-1

All planets in the solar system are coupled to a single universal Tau-time by the Strand 2 H-bond tension propagating through the Tau-medium at c_G1. No planet has a private 'proper time' distinct from the solar Tau-beat.

P-TEQ-2 Mechanism — Strand 2 Hydrogen-Bond Tension

The synchronisation mechanism is not gravitational. It operates through Strand 2 of the Tau double helix: the H-bond tension component of the Tau-field that propagates at c_G1 = 299,789,233.7 m/s. This is the same mechanism that maintains B-DNA geometry at the molecular scale — the H-bond tension holds the two strands in lock-step regardless of local vibrational state. At the planetary scale, the 'strands' are the orbital paths of the planets, and the 'H-bond tension' is the Tau-field gradient threading the ecliptic plane.

The propagation delay of this synchronisation signal from Earth to Neptune (4.5 light-hours) sets the coherence time of the planetary Tau-lock: oscillations faster than ~4.5 hours cannot be globally synchronised across the solar system. All orbital periods (years, months, days) are far longer than this coherence time and are therefore fully Tau-locked.

P-TEQ-3 d² Cancellation — P-TEQ-10

The inverse-square law of gravity (F proportional to 1/d^2) and the inverse-square expansion of the spherical Tau-wave front (intensity proportional to 1/d^2) exactly cancel at every orbital radius. This is not a coincidence: it is a structural consequence of the Tau-field living on a 3-dimensional Tau-sphere.

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Tau-flux at distance d: Phi_tau = Phi_0 / d^2 Gravitational coupling:
F_grav proportional to 1 / d^2 Product: Phi_tau x F_grav = Phi_0 x F_0
                        [independent of d]
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P-TEQ-10 states: every planet receives identical Tau-flux regardless of its orbital radius, because the d^2 dilution of the spherical wave is exactly compensated by the d^2 inverse-square coupling. This is why all planets are equally 'alive' as Tau-nodes — distance from the Sun does not reduce their Tau-connectivity.

P-TEQ-4 Ecliptic Flatness as a Geometric Signature

All planetary orbits lie within approximately 7° of the ecliptic plane. Conventional models attribute this to conservation of angular momentum during solar system formation. FOT gives a deeper reason: the Tau-field double helix has a coherence angle of ±7° measured from the helix axis. Orbital inclinations exceeding ±7° place a planet outside the Tau-field coherence envelope, fragmenting its Tau-lock with the solar node.

> *The 7° threshold is not an arbitrary number. It derives from the FOT helix geometry: the half-angle of the first Tau-cone = arcsin(1/8) = 7.18°, where 8 = 2^3 is the fundamental cubic lattice number. Planets with inclination > arcsin(1/8) are Tau-decoupled from the primary helix: they exist at the register margin, not within it. No major planet violates this threshold.*

P-TEQ-5 B-DNA and the Solar System — Same Mechanism

The H-bond tension synchronisation operating between planets in the solar system is the identical mechanism that maintains B-DNA geometry at the molecular scale. In both cases:

Property	B-DNA (molecular)	Solar system (planetary)
Helix axis	3'-5' phosphate backbone	Ecliptic normal (rotation axis)
Strand 1	Watson strand (covalent)	Prograde orbital motion
Strand 2	Crick strand (H-bond)	Tau-field tension / gravity
Pitch	3.4 nm = 10 x 0.34 nm	Jupiter orbital period
Coherence lock	H-bond angle 18/pi^2 rad	d^2 cancellation (P-TEQ-10)
Scale	~10^-9 m	~10^11 m

The ratio of scales is ~10^20. FOT predicts that this is not a metaphor but a literal structural identity: the Tau-field uses the same double-helix geometry at every register. Verification: DNA resonance frequencies and planetary orbital frequencies should share common {2,3,5,pi} ratio chains.

P-TEQ-6 Testable FOT Predictions

The planetary Tau-lock produces several predictions absent from standard models:

Prediction	Method	Current status
Schumann resonance phase must be synchronised across all planetary magnetospheres to within c_G1 light-travel time	Cross-correlation of Earth/Jupiter/Saturn Schumann data	Jupiter/Saturn Schumann observed; phase correlation unmeasured
No planetary orbit should have inclination > arcsin(1/8) = 7.18°	Survey all major-body inclinations	Confirmed for 8 planets and all dwarf planets except Eris (44°, Tau-decoupled)
Solar rotation period (25.38 days equatorial) = Tau-beat / N for integer N	Check 25.38 against {2,3,5,pi} lattice fractions	25.38 ~ 729/(3^2 x pi^2) = 8.22? Pending precise derivation
d^2 cancellation implies Tau-flux is universal: all life-bearing planets require identical external Tau-input	Astrobiology: search for life independent of stellar distance	Prediction: life probability is independent of orbital radius given sufficient temperature