The Three-Level T-Flow Cascade: Dimensional Time Quantities Across Celestial, Atomic, and Subatomic States

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The Universal Force of Time — Astrophysics Series | Paper 7 of 12

Propositions P-TDIM-1 through P-TDIM-6 | Vol 3 Section 120

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§1 — Abstract

The Force of Time establishes that the three dimensional levels — celestial, atomic, and subatomic — do not operate under the same quantity of T. Each level carries a distinct T-flow rate, separated from the adjacent level by the cascade constant K = 31,104 = $2^7 \times 3^5$ = 864 × 36. This constant is not introduced ad hoc — it is already embedded throughout FOT as the dimensional crossing factor (×10^4 scaled) and as the product of the two foundational time anchors 864 and 36. The cascade is demonstrated by passing the canonical spin day (86,400 s) through each level: at the celestial level the spin is 31,104,000°; at the atomic level it is exactly 1,000°; at the subatomic level, $5^3/(2^4 \times 3^5)$°. The conversion between degrees and radians eliminates π at every level, leaving pure {2,3,5} expressions throughout. The atomic spin in radians is 50π/9 — identically the constant that closes the NaD sodium doublet chain to sub-ppm precision. This cross-domain closure confirms that the cascade is a structural law of T-dimensional architecture, not a numerical coincidence.

§2 — The Cascade Constant K = 31,104 = $2^7 \times 3^5$

The cascade constant K is the ratio of T-flow between adjacent dimensional levels. It is already present in FOT before this section derives the cascade.

K = 31,104 = $2^7 \times 3^5$ Two independent derivations of K: 1. Dimensional crossing factor (×10^4 scaling): Crossing factor = $2^3 \times 3^5 / 5^4$ = 3.1104 × 10^4 = 31,104 = K EXACT 2. Product of two foundational T-anchors: K = 864 × 36 = ($2^5 \times 3^3$) × ($2^2 \times 3^2$) = $2^7 \times 3^5$ EXACT K carries no 5s and no π — pure {2,3} at the dimensional boundary. π propagates unchanged through dimensional boundaries (by FOT crossing law).

§3 — The Three Dimensional T-Flow Quantities

Celestial level: T-quantity = K = 31,104 = $2^7 \times 3^5$ Atomic level: T-quantity = 1 (reference level) Subatomic level: T-quantity = 1/K = 1/31,104 Downward (slower, larger scale): × K per step Upward (faster, smaller scale): ÷ K per step The three levels do not share the same T. They are separated by K = 31,104 at each step. This is why subatomic processes (picosecond timescales) cannot be directly connected to celestial processes (year timescales) by simple scaling.

§4 — Passing the Spin Day Through the Cascade

The canonical spin day (86,400 s) is the master time reference. When divided by K at the atomic level, it produces the atomic spin period. Converting to degrees then eliminates π and returns a pure integer.

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Step 1: Atomic spin period 86,400 s ÷ K = 86,400 ÷ 31,104 = 5^2 / 3^2 = 25/9 seconds EXACT Step 2: Atomic spin in radians (25/9) × 2π = 50π/9 radians Step 3: Atomic spin in degrees (25/9) × 360° = 1,000° EXACT = 10^3 = 2^3 × 5^3 (pure {2,3,5}, no π) The conversion degrees↔radians eliminates π entirely. The integer 1,000° remains — a pure {2,3,5} signature at the atomic level.

§5 — The Full Three-Level Cascade Table

All three levels expressed in period, radians, and degrees. All values are pure {2,3,5,π} with no irrational residuals.

Level	T-quantity	Spin period	Radians	Degrees
Celestial	$2^7 \times 3^5$	$2^7 \times 3^3 \times 5^2$ s = 86,400 s	$2^8 \times 3^3 \times 5^2 \times \pi$	$2^{14} \times 3^3 \times 5^3$ = 31,104,000°
Atomic	1	$5^2/3^2$ s = 25/9 s	50π/9	10^3 = 1,000°
Subatomic	$1/(2^7 \times 3^5)$	$5^2/(2^7 \times 3^7)$ s	$5^2\pi/(2^6 \times 3^7)$	$5^3/(2^4 \times 3^5)$°

§6 — The NaD Closed-Loop Cross-Domain Confirmation

The atomic spin in radians is 50π/9. This identical constant appears in the NaD (sodium doublet) closed-loop chain — an independent cross-domain confirmation that the cascade is real, not constructed.

Atomic spin period in radians: (25/9) × 2π = 50π/9 NaD Closed-Loop Chain (independent derivation): R_Earth (km) / T_Earth (days) = 50π/9 (Earth's physical radius divided by its orbital period) Same constant — 50π/9 — governs: 1. The atomic dimensional T-spin at the celestial/atomic boundary 2. The ratio of Earth's physical radius to its orbital period These are two completely independent derivations from different parts of the FOT framework, both arriving at 50π/9. This is the cross-domain closure confirming the cascade is structural law.

§7 — The General Spin Formula

The cascade generates a universal formula for spin in degrees at any level.

General form: Spin(°) = $10^3 \times K^n$ n = +1: Celestial level → Spin = 10^3 × K = 31,104,000° n = 0: Atomic level → Spin = 10^3 × 1 = 1,000° n = -1: Subatomic level → Spin = 10^3 / K = $5^3/(2^4 \times 3^5)$° n = +2: Galactic level → Spin = $10^3 \times K^2$ = 967,458,816,000° 10^3 is the invariant atomic spin signature. K is the dimensionless step operator. The formula extends upward to the galactic level (n = +2, Section 122) and downward to the sub-subatomic level (n = -2) without modification.

§8 — Registered Propositions: P-TDIM-1 through P-TDIM-6

P-TDIM-1 | Three Levels Carry Distinct T-Flow Quantities	The celestial, atomic, and subatomic dimensions do not operate under the same quantity of T. Each level is separated from its neighbour by the cascade constant K = 31,104 = $2^7 \times 3^5$ = 864×36. Celestial: K. Atomic: 1. Subatomic: 1/K. Downward through the chain divides by K; upward multiplies by K. The three levels are not equal T-partakers — they are K-separated tiers of the same cascade.
P-TDIM-2 | K = 31,104 is Already Embedded in FOT	The cascade constant K is not introduced for this purpose. It is the dimensional crossing factor ($2^3 \times 3^5/5^4$ = 3.1104, scaled by 10^4 = 31,104) already established in the crossing-factor law. Equivalently, K = 864 × 36 — the product of the two foundational T-anchors confirmed throughout the theory. K carries no 5s and no π — pure {2,3} at every dimensional boundary.

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P-TDIM-3 | Atomic T-Spin Period = 25/9 Seconds	The canonical spin day 86,400 s divided by K at the atomic level gives 86,400/31,104 = $5^2/3^2$ = 25/9 seconds exactly. This is the atomic dimensional spin period. It is a pure {2,3,5} fraction of one second. No π enters at this stage. 25/9 is the simplest possible rational expression: numerator 5^2 (the 5-prime tier marker), denominator 3^2 (the atomic-register prime).
P-TDIM-4 | Atomic Spin in Degrees = 1,000° Exactly	Converting the atomic spin period to angular measure: (25/9) × 360° = 1,000°. The atomic dimensional spin resolves to exactly 10^3 degrees = $2^3 \times 5^3$. No irrational quantity survives the conversion. The degrees/radians passage eliminates π, leaving 1,000 as the atomic spin signature. This is the structural token of the atomic level: every entity native to the atomic register carries a characteristic 1,000° spin signature.
P-TDIM-5 | Atomic Spin in Radians Confirms the NaD Closed-Loop Identity	The atomic spin in radians: (25/9) × 2π = 50π/9. This is the identical constant established independently in the NaD Closed-Loop Chain: R_Earth/T_Earth = 50π/9 (confirmed to < 1 ppm). The same quantity — 50π/9 — governs the atomic dimensional T-spin AND the ratio of Earth's physical radius to its orbital period. Two independent derivations; one constant; cross-domain closure confirmed.
P-TDIM-6 | The Cascade is Invertible and Self-Consistent at Every Level	Whichever level is taken as the entry point, dividing or multiplying by K returns the same chain. The general spin formula Spin(°) = $10^3 \times K^n$ holds for all n. At every level, the degrees↔radians conversion eliminates π, leaving pure {2,3,5} throughout. The cascade is not a numerical coincidence — it is the dimensional architecture of T itself, with π as the domain-boundary marker and {2,3,5} as the intra-domain invariant.

Summary Table

Proposition	Statement	Key Result
P-TDIM-1	Three levels: distinct T-flow; separated by K	K = 31,104 = $2^7 \times 3^5$
P-TDIM-2	K already embedded as crossing factor × 10^4	K = 864 × 36
P-TDIM-3	Atomic spin period = 86,400/K = 25/9 s	Pure {$5^2/3^2$} fraction
P-TDIM-4	Atomic spin in degrees = 1,000° exactly	$10^3 = 2^3 \times 5^3$
P-TDIM-5	Atomic spin in radians = 50π/9 = NaD closed-loop	Cross-domain closure < 1 ppm
P-TDIM-6	Cascade invertible; Spin(°) = $10^3 \times K^n$	π eliminated at every level

Cross-references: Vol 3 Section 120 | P-TGEN (three generators) | FOT_GalacticBlackHole.pdf | FOT_ThreeTimeGenerators.pdf

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