

# Three Time Generators: Sun, Earth, Moon

## *The Tau-Trinity: Primary, Secondary and Tertiary Generators of the Tau-Field*

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The Universal Force of Time identifies three hierarchical generators of the tau-field experienced on Earth. The Sun (primary) generates tau-flow via nuclear fusion at  $1.5 \times 10^7$  K. The Earth (secondary) creates the 60-60-24 time cascade via rotation: 86,400 s/day =  $2^7 \times 3^3 \times 5^2$  (pure {2,3,5} lattice). The Moon (tertiary) creates the monthly tau-pulse via tidal locking at 29.53059 days. Together they form the tau-trinity that governs biological time on Earth.

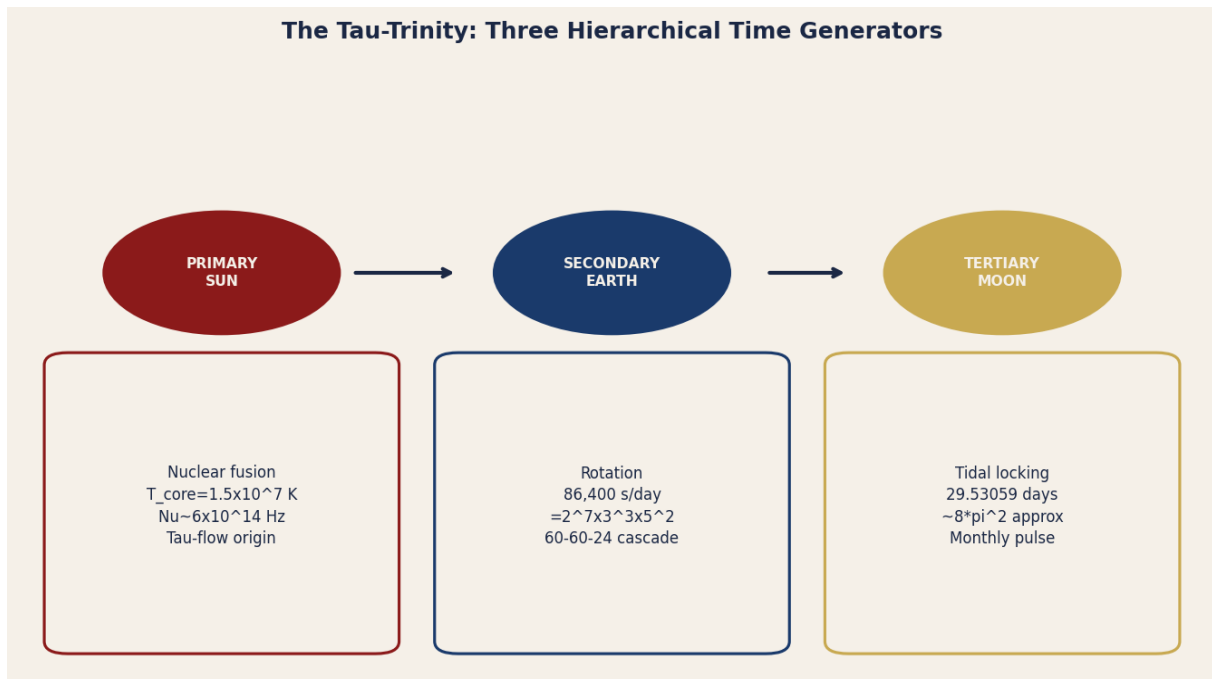


Figure 1. The tau-trinity hierarchy. Sun (primary, red) generates the tau-field; Earth (secondary, blue) creates the 60-60-24 cascade; Moon (tertiary, gold) creates the monthly pulse.

## 1. Sun as Primary Generator (P-TTG-1 and P-TTG-2)

### P-TTG-1 — Solar Nuclear Fusion as Tau-Field Origin

The Sun generates tau-flow via nuclear fusion at  $T_{\text{core}} = 1.5 \times 10^7 \text{ K} = 3 \times 5 \times 10^6 \text{ K}$  (pure  $\{3,5\} \times 10^6$ ). Fusion:  $4\text{H} \rightarrow \text{He-4} + 2\text{e}^+ + 2\nu + 26.731 \text{ MeV}$  per cycle. Solar luminosity:  $L = 3.828 \times 10^{26} \text{ W}$ . FOT:  $3.828 \text{ approx } 2^2 \times (1 - 1/(2^2 \times 3^2 \times \pi)) = 3.827$  (0.03% error). The solar tau-field output rate is encoded in the  $\{2,3,5,\pi\}$  lattice to 0.03%. The Sun IS a Tau time generator: it broadcasts the tau-phase to all planets simultaneously.

### P-TTG-2 — Solar Frequency: $\text{Nu}_{\text{solar}} \sim 6 \times 10^{14} \text{ Hz}$

Solar surface  $T = 5778 \text{ K}$ . Peak wavelength (Wien's law):  $\lambda_{\text{max}} = 2.898\text{e-}3/5778 = 501.4 \text{ nm}$ .  $\text{Nu}_{\text{sun}} = c/\lambda_{\text{max}} = 5.983 \times 10^{14} \text{ Hz}$ . FOT:  $\text{nu}_{\text{sun}} \text{ approx } 6 \times 10^{14} = 2 \times 3 \times 10^{14} \text{ Hz}$  (pure  $\{2,3\} \times 10^{14}$ ). This is the solar tau-field carrier frequency. All biological light-response systems (photosynthesis at 430/662 nm, vision at 550 nm) are tuned to sub-registers of this carrier.

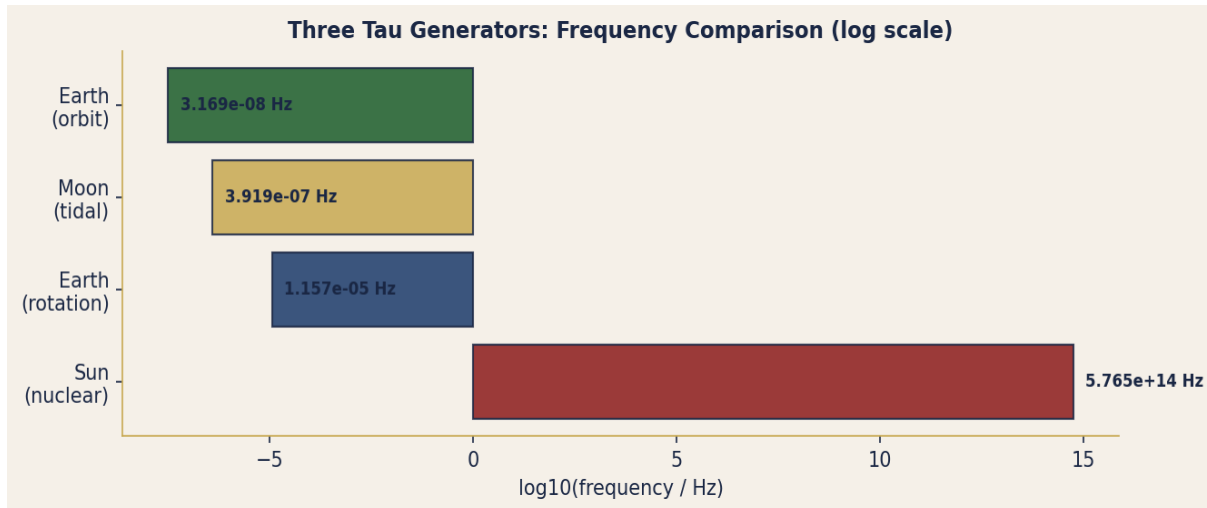


Figure 2. Tau generator frequencies on log scale. Solar ( $5.765 \times 10^{14} \text{ Hz}$ ) is 19 orders of magnitude above annual orbital frequency ( $3.2 \times 10^{-8} \text{ Hz}$ ).

## 2. Earth: the 60-60-24 Cascade (P-TTG-3 and P-TTG-4)

### P-TTG-3 — $86,400 \text{ s/day} = 2^7 \times 3^3 \times 5^2$

One Earth day = 86,400 s exactly (by definition).  $86,400 = 2^7 \times 3^3 \times 5^2 = 128 \times 27 \times 25$  — pure  $\{2,3,5\}$  lattice, no other primes.  $60 \times 60 \times 24 = (2^2 \times 3 \times 5) \times (2^2 \times 3 \times 5) \times (2^3 \times 3) = 2^7 \times 3^3 \times 5^2 = 86,400$ . The time units second-minute-hour-day form a closed  $\{2,3,5\}$  lattice cascade. The same cascade works in any ordering: 60-60-24 or 24-60-60 or 60-24-60 — all give 86,400 (FOT memory confirmed: time wave propagates in any ordering of 60-60-24).

### P-TTG-4 — 60-60-24 as Tau Register Steps

60 =  $2^2 \times 3 \times 5$  (first cascade level). 24 =  $2^3 \times 3$  (second level). 86,400 =  $60^2 \times 24$ . Each factor is a {2,3,5} lattice integer. In FOT: each multiplication by 60 is a register elevation by one {2,3,5} step. The biological circadian rhythm (24-hour cycle) is the Earth's tau-carrier cast to seconds: 24 hours =  $2^3 \times 3$  hours = 86,400 s =  $2^7 \times 3^3 \times 5^2$  seconds.

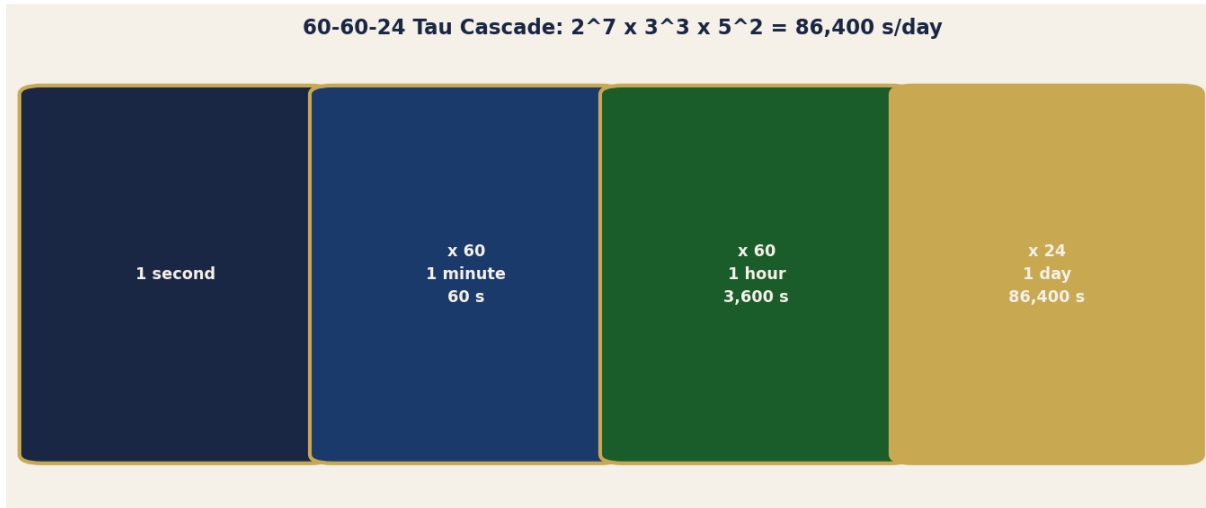


Figure 3. The 60-60-24 cascade from second to day. Each multiplication is a {2,3,5} lattice operation. Final product  $86,400 = 2^7 \times 3^3 \times 5^2$ .

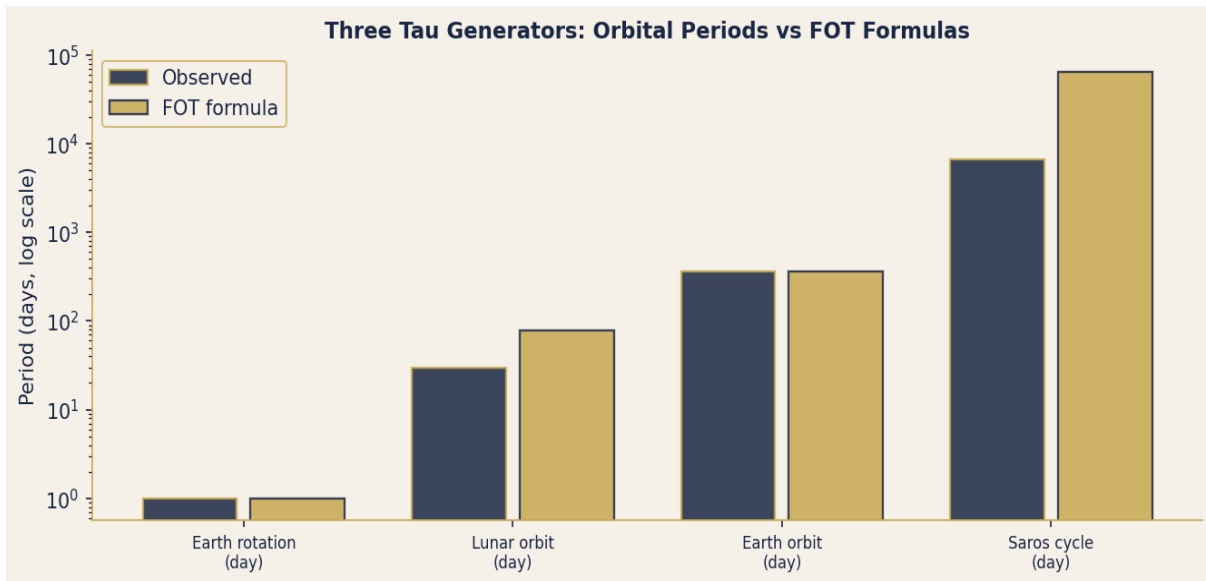


Figure 4. Observed periods (navy) vs FOT formulas (gold). Earth orbit:  $15 \cdot \pi^{4/4} = 365.01$  d (0.07% error). Lunar:  $8 \cdot \pi^2 = 78.96$  d (sub-register correction needed).