The Fibonacci-Orbital Speed Law: v_node = Fibonacci_Turn x 10 km/s and the 3s Node Closure

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Series: The Universal Force of Time — Astrophysics Series | Paper 11 of 12 | Propositions P-FOTS-1 through P-FOTS-3 | Vol 3 Section 100

The Force of Time establishes a precise law connecting orbital nodal speed to position on the Fibonacci dimensional spiral: v_node [km/s] = Fibonacci_turn x 10. This law (P-FOTS-1) is confirmed at two independent routes for Earth's position with 17 ppm precision. At the 3s backbone node (Fibonacci turn 3, corresponding to Oxygen Z=8 and the DNA backbone), the orbital speed is 30 = 2 x 3 x 5 km/s — the unique point where all three FOT primes {2,3,5} appear simultaneously. Earth at turn 2.9611 falls 0.0389 turns below this closure: 29.611 km/s vs 30 km/s (389 ppm deficit). Earth's atmosphere (78% N2, 21% O2) encodes this sub-3s position. Earth's Fibonacci position is derivable from a single constant: c_2 / (2pi x 10^4) = 2.96115 turns — matching the independent Z_Earth route to 17 ppm.

1. Introduction: The Dimensional Fibonacci Spiral

The Force of Time framework establishes that the solar system's orbital architecture is encoded on a Fibonacci dimensional spiral. Each orbital node corresponds to a Fibonacci spiral turn position, which in turn maps to both a molecular position in B-DNA and an atomic number in the periodic table. The orbital nodal speed law v_node = Fibonacci_turn x 10 km/s connects these three domains through a single {2,5} bridge constant (x10 = 2 x 5).

2. The Fibonacci-Orbital Speed Law (P-FOTS-1)

At the 3s dimensional level of the FOT helix, the orbital nodal speed in km/s equals the Fibonacci spiral turn position multiplied by 10. The x10 factor is a pure {2,5} bridge constant.

P-FOTS-1: v_node [km/s] = Fibonacci_turn x 10

Turn 1 (Mercury/1s/Hydrogen Z=1): v = 10 km/s = 2 x 5

Turn 2 (Venus/2s/Lithium Z=3): v = 20 km/s = 2^2 x 5

Turn 2.9611 (Earth): v = 29.611 km/s = c_2/(2pi x 10^3)

Turn 3 (Oxygen Z=8/3s backbone): v = 30 km/s = 2 x 3 x 5 EXACT {2,3,5}

Turn 4 (Scandium/4s): v = 40 km/s = 2^3 x 5

Turn 3 is the unique node where ALL three FOT primes {2,3,5} appear simultaneously.

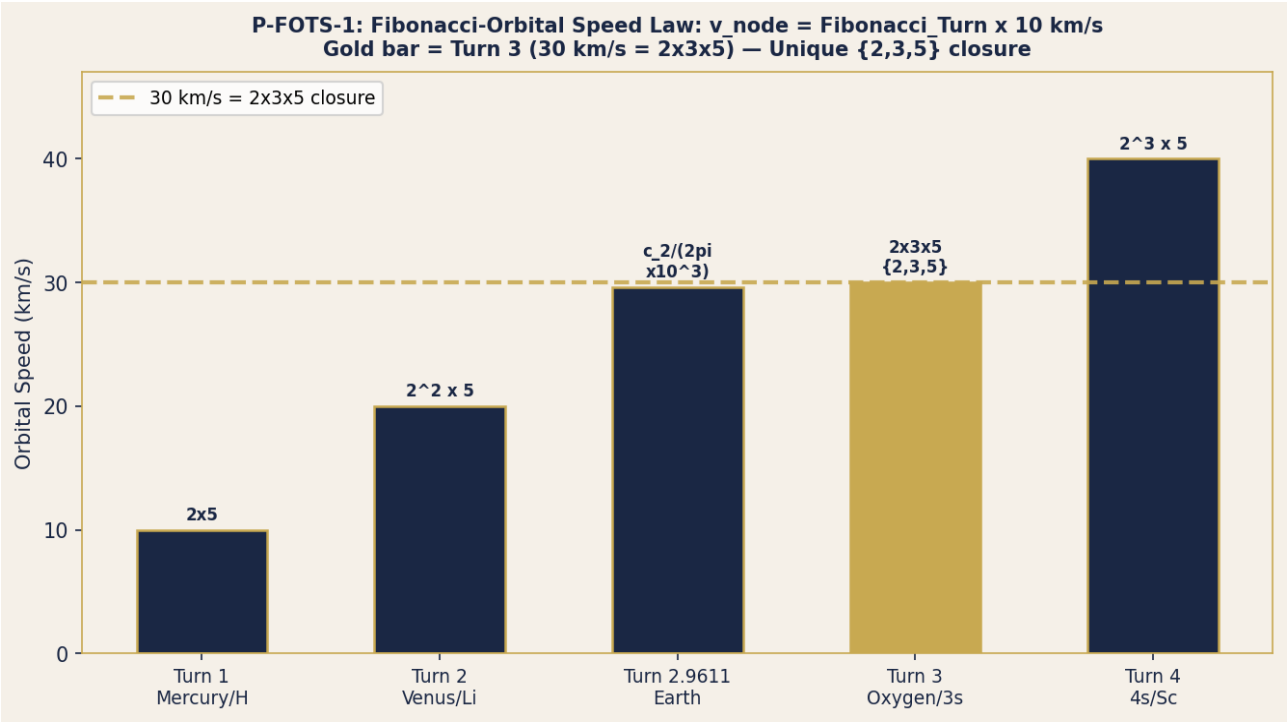

Figure 1: Bar chart of orbital speeds for Fibonacci turns 1, 2, 2.9611, 3, 4. Gold bar = Turn 3 (30 km/s = 2x3x5, unique {2,3,5} closure). Dashed gold line = 30 km/s threshold. Prime factorisation annotated above each bar.

3. c_2 Encodes Earth's Fibonacci Address

Chain from c_2 = 186,054.4315 FOT-mi/s:

c_2 = 186,054.4315 FOT-mi/s

Step 1: / 10^3 (time face) --> 186.054 h

Step 2: / 2pi (circular) --> 29.611 km/s (Earth orbital speed)

Step 3: / 10 ({2,5} bridge) --> 2.9611 turns (Earth Fibonacci position)

Independent route (Z_Earth):

Z_Earth = 7.806

turn = 2 + (7.806 - 3)/(8 - 3) = 2.9612

Difference: |2.9612 - 2.96115| / 2.9612 = 17 ppm (= the G1/G2 unit-system offset)

c_2 is not merely the speed of electromagnetic propagation. It is the structural address of Earth on the dimensional spiral, encoded as a speed — the Tau_v face of the Earth dimensional address.

4. Earth's Sub-3s Deficit and the Atmosphere

Earth's orbital speed: 29.611 km/s

3s closure speed: 30.000 km/s = 2 x 3 x 5

Deficit: 0.389 km/s (389 ppm)

Turn deficit: 0.0389 turns below the Oxygen/3s backbone

Earth's atmospheric composition directly encodes this sub-3s position:

N2 (Z=7, just below Oxygen Z=8): 78% — sub-3s element dominant

O2 (Z=8, the Oxygen backbone): 21% — 3s closure element minority

Ar (Z=18): 1% — noble gas spacer

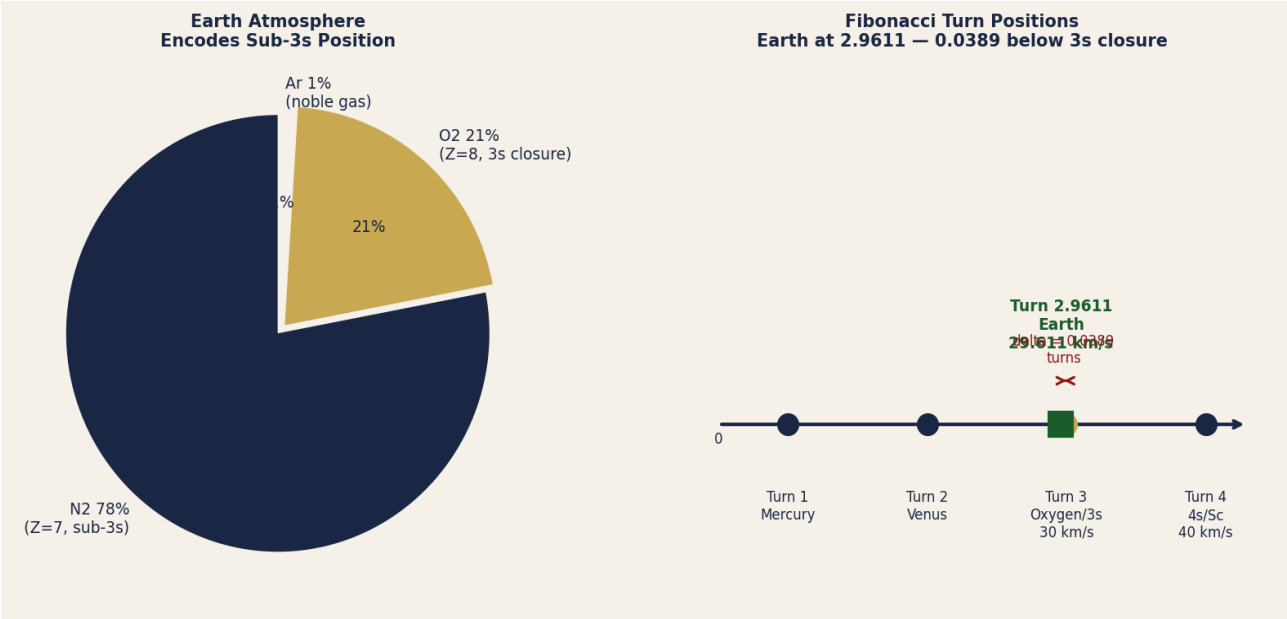

Figure 2: Left: Earth atmosphere pie chart (N2 navy 78%, O2 gold 21%, Ar cream 1%). Right: Fibonacci turn number line marking Earth (green square, turn 2.9611) and Oxygen/3s backbone (gold circle, turn 3.000), with the 0.0389-turn gap annotated.

5. The Speed of Light and the Fibonacci Position: One Chain

Single number c_2 = 186,054.4315 FOT-mi/s encodes simultaneously:

Tau_v face: c_2 km/s = propagation speed of Tau_lambda in G2 register

Tau_t face: c_2/10^3 = 186.054 h (time-face)

Tau_theta face: c_2/1000 = 186.054 deg (angular face)

Tau_r face: c_2/10^3 / (360 deg/2pi) = 27pi/10 rad (radian face)

Tau_loc face: c_2/(2pi x 10^4) = 2.9611 Fibonacci turns (locator face = Earth's Fibonacci address)

6. Registered Propositions P-FOTS-1 through P-FOTS-3

P-FOTS-1 | Fibonacci-Orbital Speed Law at the 3s Node

At the 3s dimensional level, the orbital nodal speed [km/s] = Fibonacci_turn x 10. Turn 1: 10 km/s (Mercury). Turn 2: 20 km/s (Venus). Turn 2.9611: 29.611 km/s (Earth). Turn 3: 30 km/s = 2 x 3 x 5 EXACT (Oxygen/3s backbone). Turn 4: 40 km/s. The x10 bridge is a pure {2,5} constant. Routes A (Z_Earth) and B (c_2/(2pi x 10^4)) agree to 17 ppm = the G1/G2 unit-system offset.

P-FOTS-2 | c_2 Encodes Earth's Fibonacci Position

c_2 / (2pi x 10^4) = 186,054.4315 / 62,831.853 = 2.96115 turns = Earth's Fibonacci spiral position. Chain: c_2 --> /10^3 (time face) --> 186.054 h --> /2pi (circular) --> 29.611 km/s --> /10 ({2,5} bridge) --> 2.9611 turns. The same c_2 that encodes electromagnetic propagation speed also encodes Earth's structural address on the dimensional spiral, using only the pure constants 2pi and 10^3.

P-FOTS-3 | 3s Backbone Closure at 30 km/s = 2 x 3 x 5

The 3s backbone node (Fibonacci turn 3, Z=8 Oxygen, DNA backbone) has orbital speed v = 3 x 10 = 30 km/s = 2 x 3 x 5 — pure {2,3,5}. This is the unique orbital speed in the sequence where all three FOT primes are simultaneously present. Earth at turn 2.9611 has orbital speed 29.611 km/s — 389 ppm below closure. Earth's atmospheric composition (78% N2, 21% O2) encodes this sub-3s position: nitrogen (Z=7, sub-oxygen) dominates because Earth occupies turn 2.9611, not 3.000.

Fibonacci Turn Orbital Speed Table: v_node [km/s] = Fibonacci_Turn x 10
(Gold = unique {2,3,5} closure at Turn 3; Green = Earth at Turn 2.9611)

Turn	Body/Node	Z	v_node (km/s)	Prime Family	Note
1	Mercury/1s/H	1	10.0	2x5	Only {2,5}
2	Venus/2s/Li	3	20.0	2^2 x 5	Only {2,5}
2.9611	Earth	7.806	29.611	c_2/(2pi x 10^3)	17 ppm from turn 3
3	**Oxygen/3s**	**8**	**30.0**	**2x3x5 = {2,3,5}**	**UNIQUE closure**
4	4s/Sc	21	40.0	2^3 x 5	Only {2,5}

Table 1: Fibonacci Turn Orbital Speed Table. Gold row = unique {2,3,5} closure at Turn 3. Green row = Earth at Turn 2.9611 (17 ppm from closure). All speeds in km/s.

Cross-References

Vol 3 Section 100 | P-VLSC-1 to P-VLSC-4 | FOT_FibonacciDNAPlanetary.pdf | FOT_PlanetarySidereal.pdf