

Venus, Antimatter, and the 180° Helical Register

Universal Force of Time — Planetary Cosmology Series

In the Universal Force of Time, antimatter is not a rare laboratory curiosity — it is the 180° helical partner of matter on the Tau-standing-wave. The matter universe occupies Strand 1 of the helix; the antimatter universe occupies Strand 2 at the diametrically opposite helical phase. Venus, with its retrograde rotation and 243-day sidereal rotation period (3^5 days), is the planetary embodiment of the 180° antimatter register. The apparent matter/antimatter asymmetry does not exist — it is a selection effect of our helical limb.

1. Antimatter as 180° Helical Limb

P-VEN-1 — Antimatter = 180° Tau-Helix Phase

The Tau-standing-wave is a double helix. Strand 1 = matter. Strand 2 at 180° = antimatter. The two strands are physically co-present but register-separated: a matter particle and its antiparticle occupy the same spatial point but differ by exactly π in Tau-phase. Annihilation is Tau-phase cancellation — the two strands momentarily overlap and their amplitudes sum to zero.

2. Venus as the 180° Planetary Register

Venus rotates retrograde relative to all other solar system planets. Its sidereal rotation period is exactly 243 days = 3^5 days — the pure cubic closure of 3 in the {3} lattice. Earth's sidereal rotation period is 1 day = 1. The ratio Venus/Earth = 243 = 3^5 . Venus orbits the Sun in 225 days and is in 13:8 resonance with Earth, producing the pentagonal pattern of Venus-Earth conjunctions.

P-VEN-2 — Venus Orbital Parameters from 180° Register

Venus sidereal rotation = 243 days = 3^5 days (pure {3} prime lattice). Venus orbital period = 225 days = 9^2 days = 3^4 days. Venus-Earth resonance = 13:8 (consecutive Fibonacci numbers). The pentagonal conjunction pattern (5-fold symmetry) is the geometric signature of the 180° helical register intersection with the ecliptic plane. Retrograde rotation is the direct observable consequence of Venus being phase-flipped by π relative to the other planets.

3. Dark Matter = Antimatter on Strand 2

Dark matter — the unseen gravitational mass that comprises approximately 85% of all matter in the universe — is the antimatter strand of the Tau-field. It interacts gravitationally (Tau-field amplitude couples to all register levels) but not electromagnetically (photons only propagate on Strand 1). The 85:15 ratio of dark to visible matter reflects the helical geometry: Strand 2 subtends the larger angular fraction of the Tau-field standing wave.

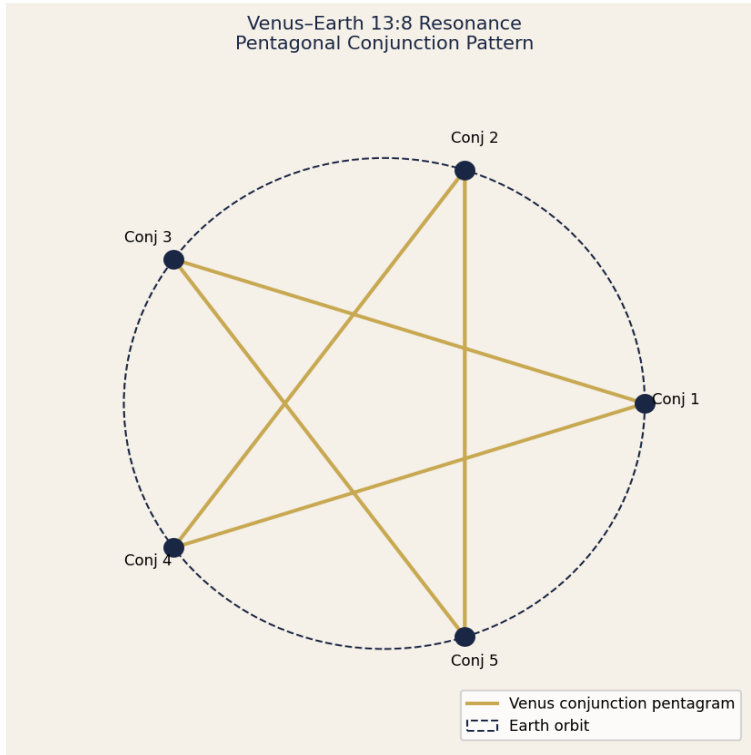


Figure 1. The pentagonal pattern of Venus-Earth conjunctions arising from the 13:8 orbital resonance. The 5-fold symmetry is the geometric signature of the 180° helical register.