The Galactic Black Hole as T-Node: The Constructive Galactic Centre and the Four-Level Cascade

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The Universal Force of Time — Astrophysics Series | Paper 3 of 12

Propositions P-GBLK-1 through P-GBLK-9 | Vol 3 Section 122

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§1 — Abstract

The Force of Time establishes a four-level T-cascade extending from the Higgs boson at the subatomic scale to the supermassive black hole at the galactic scale, each level separated from the next by the constant K = 31,104 = $2^7 \times 3^5$. The galactic black hole is not a destructive singularity where physics breaks down. It is the T-origin node at the fourth level — the most fundamental constructive node in our observable T-hierarchy. The spiral galaxy is the galactic expression of the same double-helix structure confirmed at DNA, atomic, and celestial scales: its two arms are the positive (matter) and negative (antimatter) T-strands at galactic scale, winding in the same helical ratio $r = 5^6/(2^6 \times 3^5)$ confirmed in B-DNA and Mercury's orbital precession. The event horizon is a dimensional transition boundary, not a surface of no return. The accretion disk is the galactic T-equalization surface, held flat by T-tension exactly as the ecliptic is held flat at stellar scale. The galactic polar jets are T-axis emission — the galactic equivalent of the solar wind. The information paradox dissolves: information crossing the horizon is dimensionally translated from celestial-register (K) to galactic-register (K^2), not destroyed.

§2 — The Four-Level T-Cascade

The dimensional hierarchy established for three levels in Section 118 (Higgs, nucleus, Sun) extends to a fourth level at the galactic scale.

Level 1 — Higgs boson (subatomic): T-quantity = 1/K Level 2 — Atomic nucleus (atomic): T-quantity = 1 Level 3 — Sun (celestial): T-quantity = K Level 4 — Galactic black hole: T-quantity = K^2 K = 31,104 = $2^7 \times 3^5$ = 864 × 36 K^2 = 967,458,816 = $2^{14} \times 3^{10}$ Each level multiplies T-flow by K upward. The black hole runs on $K^2 = 2^{14} \times 3^{10}$ — pure {2,3} at exponent 14 and 10.

§3 — The Spiral Galaxy as Galactic Double-Helix

The spiral structure of a galaxy is not a gravitational accident. It is the geometric signature of the galactic T-double-helix propagating outward from the black hole T-origin.

Galactic spiral arms: Arm 1 (matter arm): Strand 1, positive T Arm 2 (antimatter arm): Strand 2, negative T Helical winding ratio at galactic scale: $r = 5^6/(2^6 \times 3^5)$ = 15,625/15,552 This is the SAME ratio confirmed at: — DNA scale (B-DNA pitch turn ratio) — Mercury orbital precession (the missing helix ratio) — Solar diameter G1 base → photospheric (Section 121) Spiral galaxies are helical at every scale because T is helical at every scale. One law; one ratio; four dimensional magnitudes.

§4 — The Black Hole Generates; It Does Not Consume

Every feature of conventional black hole physics inverts under FOT when the direction of T-flow is correctly identified.

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Conventional: Stars orbit and fall toward the black hole (gravity dominant) FOT: Stars are stationary T-nodes through which the galactic T-sphere sweeps Conventional: Matter disappears into the singularity FOT: The galactic T-sphere propagates outward from this node (as the solar T-sphere propagates outward through planetary nodes) Conventional: The singularity is where physics breaks down FOT: The galactic centre is where the complete T-hierarchy converges All four levels (1/K, 1, K, K²) are simultaneously present at this point The black hole generates T at the galactic rate (K²). It does not consume matter. What appears as orbital motion and slow infall is the galactic T-sphere passing through fixed stellar nodes at the galactic T-period.

§5 — Event Horizon, Accretion Disk, and Polar Jets

P-GBLK-4 | Event Horizon as Dimensional Boundary	The event horizon is not a surface of no return. It is the dimensional transition boundary at the galactic level — the galactic equivalent of the solar inner sphere (Section 121, r = 69,444 km) and the nuclear surface at the atomic level. Inside the horizon, T flows at the galactic rate (K²). Outside, T flows at the celestial rate (K). The boundary marks a dimensional transition, not physical destruction. Nothing crossing it is annihilated; the T-flow rate changes by a factor of K = 31,104 at the crossing. The apparent impossibility of escape is dimensional incompatibility of T-flow rates — not a geometric trap.
P-GBLK-5 | Accretion Disk as Galactic T-Equalization Surface	The accretion disk of active galactic nuclei is the galactic T-equalization surface. It is held flat in its equatorial plane by T-tension at galactic scale, exactly as the ecliptic plane is held flat by T-tension at celestial scale (P-TLIN-2). The disk is not matter spiralling inward under gravity; it is the galactic ground state of T-equalization — the surface along which all stellar nodes in the galactic plane share the same T-flow rate. Its flatness is not gravitational; it is the signature of T-equalization extended to galactic dimensions.
P-GBLK-6 | AGN Jets as Galactic T-Axis Emission	The bipolar jets from active galactic nuclei — plasma streams ejected perpendicular to the accretion disk at near-light speed — are directional T-emission along the galactic T-axis. The equatorial component creates the spiral arms (helical propagation in the plane). The polar component creates the jets (axial propagation perpendicular to the plane). This is the galactic equivalent of the solar wind — anisotropic, concentrated along the poles. The jets are not ejected accreted matter; they are galactic T propagating along the helix axis from the T-origin outward through both poles simultaneously.

§6 — The Information Paradox Resolved

The conventional information paradox asks whether information is destroyed when matter crosses the event horizon. In FOT, the question dissolves entirely.

Information crossing the event horizon is NOT destroyed. It is dimensionally translated: Celestial register (K) → Galactic register (K²) The T-flow rate changes by factor K = 31,104 at the crossing. The information persists in the galactic register, inaccessible to celestial-register observers — not because it is annihilated, but because the T-flow rate mismatch creates dimensional incompatibility. This is the same incompatibility that makes atomic-register phenomena inaccessible to direct celestial observation without bridge constants. dΣT = 0 at every level. Information is conserved across all dimensional boundaries.

§7 — Galactic Spin Period and the 432 Thread at Galactic Scale

The three-level cascade of Section 120 extends to the galactic level with precise internal structure.

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Galactic T-time anchor: $864^2 = 2^{10} \times 3^6 = 746{,}496$ Galactic spin orbital: $K^2 = 2^{14} \times 3^{10} = 967{,}458{,}816$ Galactic spin period = 86,400 × K = 2,687,385,600 s = K days (The cascade constant K is itself the galactic spin period in days) Galactic inner sphere diameter: = 86,400 × 50,000 = 4,320,000,000 km = 432 × 10^7 km 432 = $2^4 \times 3^3$ — the same integer that governs: — Earth biological chlorophyll absorption (432 nm) — Stellar triple-alpha nuclear fusion bridge — DNA molecular architecture The 432 thread runs from DNA scale to galactic scale.

§8 — Registered Propositions: P-GBLK-1 through P-GBLK-9

P-GBLK-1 | Four-Level T-Cascade: Higgs → Nucleus → Sun → Black Hole	The dimensional hierarchy of T-nodes extends to four levels. Higgs (subatomic, T = 1/K), atomic nucleus (atomic, T = 1), Sun (celestial, T = K), galactic black hole (T = K^2). K = 31,104 = $2^7 \times 3^5$. $K^2 = 2^{14} \times 3^{10}$. Each level is separated from the next by the same cascade constant K embedded throughout FOT. The black hole is the fourth level of the cascade, not a breakdown of physics.
P-GBLK-2 | Spiral Galaxy as Galactic T-Double-Helix	The spiral galaxy's two arms are the positive (matter) and negative (antimatter) T-strands at galactic scale. The spiral structure is not gravitational — it is the galactic T-double-helix propagating outward from the centre. The two arms wind in the same {2,3,5} helical ratio $r = 5^6/(2^6 \times 3^5) = 15{,}625/15{,}552$ confirmed at DNA scale and in Mercury's orbital precession. Spiral galaxies are helical at every scale because T is helical at every scale.
P-GBLK-3 | Black Hole as T-Generator, Not Terminus	The galactic black hole is the T-origin at galactic scale. The galactic T-sphere propagates outward from this node through the stellar lattice, exactly as the solar T-sphere propagates through the planetary lattice. Stars are stationary T-nodes through which the galactic T-sphere sweeps on its outward propagation. What appears as orbital motion and slow infall is the galactic T-sphere passing through fixed stellar nodes. The black hole generates T at rate K^2. It does not consume matter.
P-GBLK-7 | Information Paradox Resolved by Dimensional Translation	Information crossing the event horizon is not destroyed; it is dimensionally translated from celestial T-register (K) into galactic T-register (K^2). The translation changes T-flow rate by factor K = 31,104. The information persists in the galactic register, inaccessible to celestial observers not because it is annihilated but because of T-flow rate incompatibility. $d\Sigma T = 0$ at every level. Information is conserved across all dimensional boundaries.
P-GBLK-8 | Galactic Centre as Convergence of All Four T-Levels	The galactic black hole is the single point in our observable universe where all four dimensional T-levels are simultaneously present. The Higgs field (1/K) permeates the spacetime around it. Atomic processes at the boundary operate at T = 1. Stellar systems in the galactic plane operate at T = K. The black hole itself operates at $T = K^2 = 2^{14} \times 3^{10}$. All four registers converge at the galactic T-origin. This is a singularity in the sense of the single point where the complete T-hierarchy is expressed simultaneously — not a breakdown.
P-GBLK-9 | Galactic Spin: 864^2 T-Time, K^2 Spin Orbital, 432×10^7 km Inner Sphere	Galactic T-time anchor: $864^2 = 2^{10} \times 3^6 = 746{,}496$. Galactic spin orbital: $K^2 = 2^{14} \times 3^{10}$. Galactic spin period = 86,400 × K = K days exactly (the cascade constant K is itself the galactic spin period in days — self-referential closure of the cascade). Galactic inner sphere diameter = 432 × 10^7 km = $2^4 \times 3^3 \times 10^7$ km, where 432 is the chlorophyll-DNA bridge constant confirmed at biological and stellar scales. The 432 thread runs from DNA to galaxy in one unbroken {2,3} chain.

Summary Table

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Proposition	Statement	Key Value
P-GBLK-1	Four levels: Higgs→Nucleus→Sun→Black hole	$K^2 = 2^{14} \times 3^{10}$
P-GBLK-2	Spiral arms = galactic T-double-helix	$r = 5^6/(2^6 \times 3^5)$ — same as DNA
P-GBLK-3	Black hole = T-generator; stars = fixed nodes	T-sphere propagates outward
P-GBLK-4	Event horizon = galactic dimensional boundary	T shifts $K \to K^2$ at crossing
P-GBLK-5	Accretion disk = galactic T-equalization surface	Galactic ecliptic
P-GBLK-6	AGN jets = galactic T-axis emission	Galactic solar wind
P-GBLK-7	Information paradox: dimensional translation, not destruction	$d\Sigma T = 0$
P-GBLK-8	Galactic centre: all four T-levels converge	Deepest T-node
P-GBLK-9	Spin period = K days; inner sphere = 432×10^7 km	432 thread: DNA → galaxy

Cross-references: Vol 3 Section 122 | P-TGEN (three generators) | P-TDIM-1 to P-TDIM-6 | FOT_TauFlowCascade.pdf | FOT_DoubleHelixNebula.pdf

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