One Law, One Curvature, One Hand
Ein Gesetz, eine Krümmung, eine Hand

The It Is All One Programme in a Single Article: Its Claims, Its Computed Numbers, and Its Falsifiers

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It Is All One — Flagship Summary. July 2026 (working draft)

Abstract

This article condenses a research programme of some forty papers and notes into one continuous argument, so that a reader may judge it whole. The programme's wager is stated in its title: that reality is one geometric object — a quaternion-valued space whose real axis carries time as an imaginary value, W = iτ — and that everything physics catalogues separately (forces, particles, constants, temperatures, the arrow of chemistry, the hand of life) is that one object read at different magnifications. Three geometric postulates form the core — all is quaternion-valued with W = iτ; there is no force, only curvature, carried affordably by winding; the universe is static and eternal — together with a handful of *additional physical assumptions*, named openly wherever they enter (closed global topology with nonzero charge; the identification of one octonion axis with colour; the gauging and the dynamics of the fibers). From these, partly by genuine computation and partly by consistency, the programme assembles a single scorecard: a family law $T \cdot R = \hbar c/2\pi k_B = 0.3644$ mm·K holding from the cosmic horizon to the proton — the law giving, at each world, the *horizon* temperature (Unruh/Gibbons–Hawking) of that world's **curvature radius** — read at the *right* radius: the colour world's curvature radius is 0.203 fm (not the proton, which is the *cage*, larger by $4\pi/3$ through two derived gears), and the law there gives 155 MeV, the measured confinement temperature, exactly; the cosmic world's is c/H, giving 10^{-30} K, a real but unobservable horizon temperature. The observed 2.7 K microwave background is *not* the cosmic world's temperature but the electromagnetic world's — the recombination photosphere at $z \approx 1100$ (a standing Tolman equilibrium of the static metric, not a Big Bang relic — and the temperature history $T(z) = T_0(1+z)$ that equilibrium delivers is claimed here as a consistency check only, never as support: it follows from staticity alone, is blind to the metric's areal radius, and is predicted identically by the expanding accounts; see Allgemeine Feldtheorie §4a) — so the notorious 10^{30} 'gap' was the CMB filed under the wrong world, dissolved once it is filed correctly (§2, and the companion note *The Family Law's Cosmic Rung*); a rotation-curve relation $a_0 = cH/2e \approx 1.2\times10^{-10}$ m/s² — cH fixed by dimensions, the $1/(2e)$ structurally motivated (spinor 2, exponential e) but not uniquely forced (the standard $cH/2\pi \approx 1.04\times10^{-10}$ fits comparably) and quarantined at 4.4%; the proton's identity $m_p \cdot c \cdot r_p = 4\hbar$ at a twentieth of a percent; the quark

confinement temperature at a twentieth of a percent (the family law at the colour curvature radius); the operating temperature of chemistry at 367 K from α^3 alone; a baryon built as a topological knot of the space quaternion — winding number 1.0000, nucleon mass within 0.5 percent, its spinning partner within 2.8 percent, its fermionic nature a theorem rather than a stipulation; the knot's one fitted stiffness revealed as the curvature energy the formalism carried all along, its coefficient verified against the first excited meson at 9 percent; and, in the newest stratum, the discovery this article is built around — that the universe's curvature occupies one half of the two-sphere decomposition of four-dimensional geometry, that this one-sidedness is a conserved topological charge, and that three of the standard account's deepest embarrassments are its direct expressions: the universe cannot decay (eternity as winding protection, the third postulate promoted from axiom toward consequence), the weak interaction's left-handedness is *offered as the reading* of that one-sidedness — one self-dual SU(2) factor is geometrically singled out, and that part is solid, but identifying it as the weak gauge group, deriving chiral fermion representations under it, and declaring the right-handed neutrino non-existent all require further gauge and representation assumptions the curvature split does not supply, so V−A and the objectless ν_R are interpretations, not derivations; and, one step more conditional still, resting also on an octonion axis-identification the algebra permits but does not force, the strong interaction's parity-cleanness (θ_QCD < 10^{-10}) reads as prohibition rather than fine-tuning. One pseudoscalar — spin against advance — is traced from the neutrino's measured helicity through the homochirality of life to a predicted, currently measurable monopole in galaxy spins against the cosmic infall: the programme's live falsifier, stated against both the standard null and the published axis-claims. The article closes with the full honesty apparatus that is this series's habit: what is fitted (one number, now priced), what is quarantined (the Higgs-as-first-harmonic at 3.7 percent among them), what is conjectured (the colour sector's blindness — its $G_2/SU(3)$ arithmetic and $1\oplus3\oplus\bar{3}$ branching now verified, but its axis-selection and gauging left as physical postulates), and what would kill the programme (five named falsifiers). The reader is asked for exactly one thing: to weigh the scorecard as a whole. Any single line can be luck. The wager of this article is that forty lines are not.

1. The Wager

Physics as taught is an archipelago: a theory of gravity that ignores the quantum, a quantum theory that ignores gravity, a Standard Model with nineteen dials nobody has explained, a cosmology that is 95 percent inventory nobody has seen, and, strewn between them, 'coincidences' that each subfield notices and none may claim — the rotation-curve scale that keeps equalling cH, the confinement temperature that keeps equalling the proton's own geometry, the habitable temperature that keeps landing where α^3 says. The programme summarized here makes the opposite wager: **there are no coincidences, there is one object.** Its three postulates fit in one breath. P1: everything is quaternion-valued; the quaternion's three imaginary units are space, and its *real* axis carries time — as an imaginary *value*, $W = i\tau$, so that the quaternion's Euclidean norm $W^2 + x^2 + y^2 + z^2$ reads, in

physical time, $-\tau^2 + x^2 + y^2 + z^2$: the light cone bought with one letter. P2: there is no force; there is only curvature, and curvature is carried affordably by winding. P3: the universe is static and eternal. These three are geometric; the programme also draws, openly, on a few *additional physical assumptions* where the geometry runs out — closed global topology, the octonion colour-axis identification, the gauging and dynamics of the fibers — and the honest discipline of this article is to mark, at every rung, which results are computed *from the postulates*, which follow only *with* one of those assumptions, and which are merely *consistency* rather than derivation. Much of the ladder is genuine computation, and comes with its scripts, so that any reader with a Tuesday afternoon can rerun it; but the programme is conditional, not closed, and says so.

2. One Law

A single relation runs the whole ladder of scales:

$$T \cdot R \;=\; \hbar c \,/\, 2\pi k_B \;=\; 0.3644\ mm{\cdot}K$$

A world of curvature radius R carries the horizon temperature T at which its windings just close — for the family law gives a *horizon* temperature (the Unruh/Gibbons–Hawking temperature of a region at its curvature radius), not a thermal bath. One condition must be named: this follows *once* the acceleration law $a = c^2/R$ is assumed, from which $T = \hbar c/2\pi k_B R$ is algebra; the engine note verifies that identity numerically, but does not derive the acceleration law itself. One category distinction must be stated at once, because it is the law's most abusable line. At the cosmic rung, $R = c/H$ gives $T = \hbar H/2\pi k_B \approx 10^{-30}$ K — the **de Sitter horizon whisper**. This is *not* the 2.7 K microwave background, and the two must not be subtracted: they are different objects. The CMB is not the cosmic world's temperature at all — it is the **electromagnetic world's**, the ~3000 K recombination photosphere redshifted over seven curvature radii to 2.725 K (a standing Tolman equilibrium of the static metric, derived separately). So the 10^{30} gap is the CMB filed under the wrong world, not a failure of the law. The strong rung makes the reading rule sharp, and corrects a long-standing conflation in this series. The confinement temperature **155 MeV is the family law itself** — at the colour world's *curvature radius*, 0.203 fm (which gives $\hbar c/2\pi k_B \div 0.203$ fm = 155 MeV, the measured freeze-out, to 0.05%). The proton (0.84 fm) is **not** that radius; it is the *cage*, larger by exactly $4\pi/3$ through two gears the corpus derives (a factor π from the seven-sphere $\Lambda = 2T_c$, a factor 4/3 tetrahedral), so $r_p = (4\pi/3)\cdot R$. Feed the law the proton (cage) radius and you get 37.4 MeV — the cage's temperature, which is *why* '156 MeV from the family law and the proton radius' rings false: the radius is the curvature radius, not the cage. (There is no separate 'melting chain' and no 'bath hotter than a whisper' — an earlier reading, since corrected: 156 MeV *is* the family law, at the right radius.) Chemistry likewise reads at its curvature radius: $T = \alpha^3 m_e c^2/2\pi k_B$ = **367 K** at the micron cell — the fine-structure constant alone dictating the α-ladder of the chemical rung (3.73 keV, 13.6 eV, 32 meV), approximate against life's operating range. And the proton closes its geometry on the identity $m_p \cdot c \cdot r_p = 4\hbar$, at 3.9983 ± 0.0019 with the muonic radius: four quanta of action, the trinity's closure, to a tenth of a percent.

3. Mass: Space, Condensed and Knotted

The programme's middle stratum answers what matter *is*: **condensed space** — curvature wound so tightly it seals itself. Newton's constant is *re-read* as a signal delay: $G = c^3\tau_s/2M$. But the honest weight of this must be stated — with $\tau_s = r_s/c$ and $r_s = 2GM/c^2$ it is an **identity**, a re-expression of G, not a derivation that makes G less fundamental. It becomes explanatory only if the delay τ_s is predicted *independently* of r_s; absent that, it is a suggestive re-reading (inertia as the whip's lag, gravity as bookkeeping of delay), not a result that removes G as a constant. The condensation has floors — pair creation, the trinity wedge at the closure angle, Pauli pressure, the Schwarzschild seal, torsion — a staircase of catchers that ends collapse without singularities, running from the electron's condensation ratio of 10^{44} down to the universe's 1.000 — though that last entry must be read carefully: $GM/Rc^2 = ½$ with $R = c/H$ is a **definitional identity**, not an audit, because critical density is *defined* as $\rho_c = 3H^2/8\pi G$, which makes the ½ a tautology. Its only physical content is the separate observation that the real universe sits near critical density; the relation is a consistency check, not independent evidence that the universe *is* a Schwarzschild horizon.

On this floor the baryon was then *built*, not postulated. Comb the unit quaternions radially — the hedgehog, Hamilton's units as quills (Figure 1) — and solve: winding number B = 1.0000, the Derrick balance in equilibrium at 0.998, energy 1.2319 × the topological bound. Rotate the knot rigidly and quantize: the configuration space of a B = 1 winding has a noncontractible 2π loop, so **half-integer spin is forced** — the knot is a fermion by theorem, not declaration — and with every constant frozen at its 1983 calibration, the two lowest allowed states land at **943.8 MeV against the nucleon's 939** (0.5 percent) and **1265.9 MeV against the Δ's 1232** (2.8 percent). The excited baryon is the same knot, spun harder.

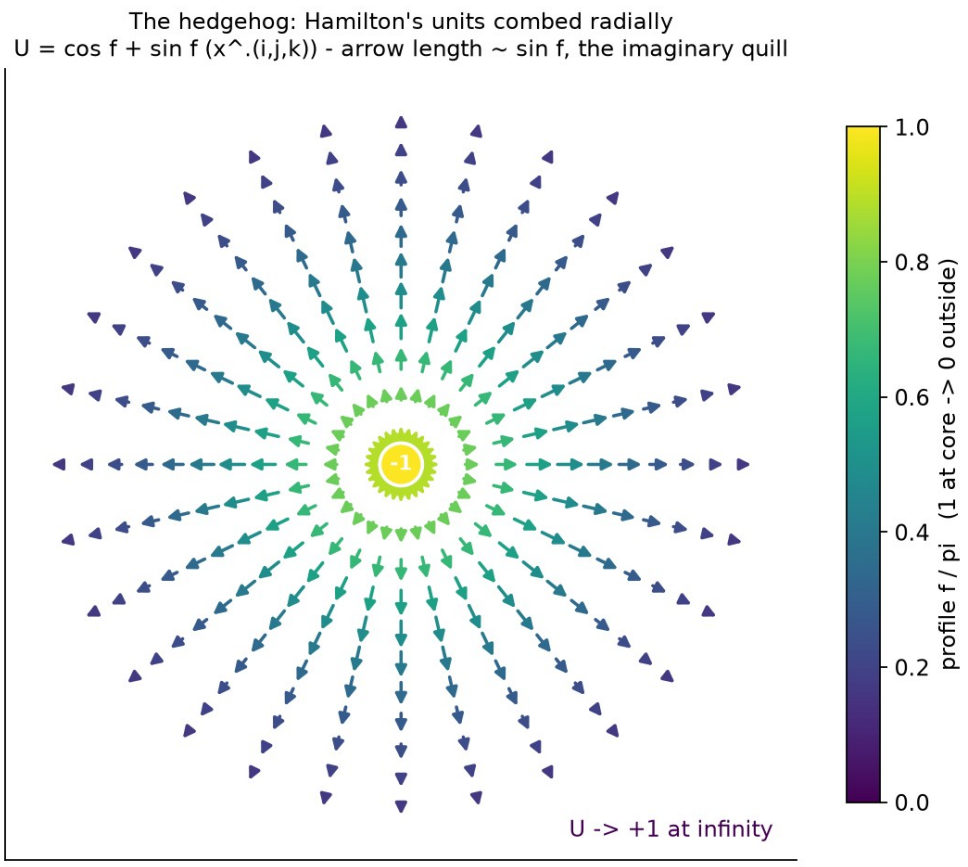

Figure 1. The baryon as computed: Hamilton's units combed radially — the hedgehog winding of the space quaternion, wrapping the three-sphere exactly once (B = 1.0000). Its mass, size, spin and fermionic character follow from the geometry; the numbers appear in the scorecard of §6.

One constant in that construction was rented, not owned: the stiffness that catches Derrick's collapse. The stiffness note paid the debt: the quartic term is the **squared pullback of the target sphere's curvature** — for the constant-curvature worlds of P2, exactly the pair (frame, curvature) = (θ, R) that the field-equations note had carried from the start. Nothing was added to save the particle; the geometry already held it. And the coefficient has an address: the first excited mode of the same fiber — the ρ meson — whose measured coupling (5.976 from its width, 5.952 from the mass relation) stands 9 percent from the fitted 5.45. *The stiffness of a rung is the door to its next mode.* One rung up, the weak fiber's lowest computed harmonic sits 3.7 percent from the measured Higgs — recorded, and quarantined.

4. One Curvature

The newest stratum begins with a sentence simple enough for a child: *the universe is curved in one way, not in the other* — a sheet over one of two spheres, nestling against the one it chose. In four dimensions this is exact: the two-forms split as $\Lambda^2 = \Lambda^2_+ \oplus \Lambda^2_-$, and the unit

spheres of the two halves are literally two spheres — simultaneously the two SU(2) factors of the rotation group, the two isoclinic senses, the two Hopf fibrations, the quaternion's left and right multiplication. P1's imaginary-valued time — the quaternion frame (W, x, y, z) is Euclidean — is precisely what makes these spheres real. Three consequences, each carrying a former embarrassment:

Economy. At fixed winding, total curvature energy is bounded below by the winding and touches the bound only one-sidedly. Nestling is the ground state of being wound: nothing *chose* left — a wound universe at rest is one-sided the way a dropped chain lies at the floor.

Conservation. The one-sidedness is itself the conserved topological charge: $p_1 \propto \int(|R_+|^2 - |R_-|^2)$. The sum of all curvatures is the curvature of the universe; matter borrows, never creates. (The $GM/Rc^2 = ½$ relation of §3 is *consistent* with this reading but does not prove it — it is definitional, as noted there.)

Protection. Flat space carries zero charge; this universe's charge is nonzero and conserved; therefore the universe cannot unfold into a flat Cartesian room — **it cannot decay for the same reason the proton cannot.** Eternity is winding protection: P3, an axiom for six years, moves toward a consequence. Annihilation remains as the local exception — winding meeting counter-winding, the borrowed curvature returned as light. And the flat, timeless, Cartesian space the question imagines exists in exactly two places: the tangent space at every point (drawn by the frame quaternion), and the simultaneity instrument behind the reader's eyes. The unfolded universe is the observer's map, never the territory — and on that map there is no time, because time is the turning of windings, and nothing flat turns.

5. One Hand

A curvature confined to one sphere is a **hand**, and the hand is inherited by everything that condenses inside. Its carrier is the screw: rotation locked to advance along $W = i\tau$ — a double rotation whose second plane contains the time axis, which is why no snapshot, no photograph, no simultaneity slice can ever contain it (Figure 2). Chirality is invisible to the instrument that flattens; it lives in the coupling the flattening discards.

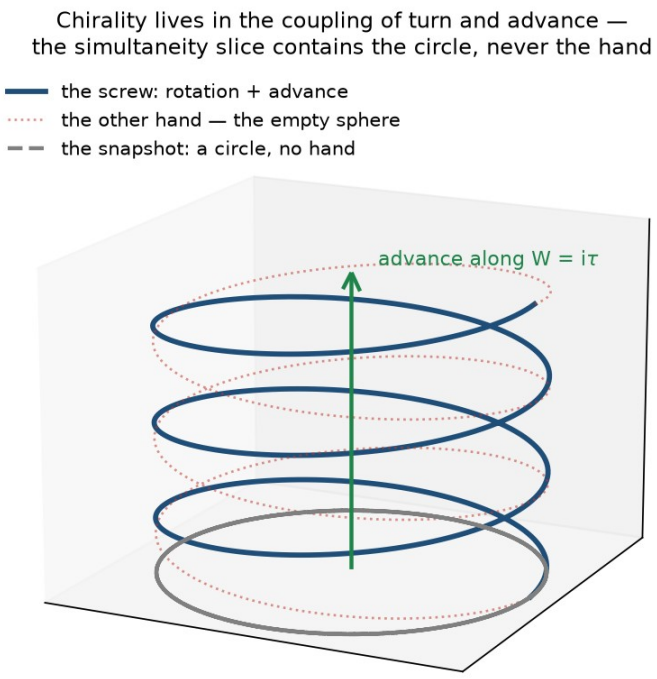

Figure 2. The screw: rotation locked to advance along the time axis. The snapshot plane holds the circle only — the hand lives in the coupling of turn and advance. The dotted mirror screw is the empty sphere: not forbidden, objectless.

Here the honest gradient must be drawn carefully, because the temptation to overclaim is strongest on this rung. What the geometry *does* establish is one thing: since curvature lives in one half of the Λ^2 split (§4), one self-dual **SU(2) factor is geometrically singled out**. That is solid. Everything the Standard Model would want from it is a *further* step the split does not take — that this SU(2) is the weak gauge group, that fermions sit in *chiral* representations under it, that its interaction carries Yang–Mills dynamics, that no right-handed neutrino state exists — each needing gauge and representation assumptions the one-sidedness alone does not supply. So **V−A and the 'objectless' right-handed neutrino are offered as readings** of the geometric one-sidedness, not derivations from it; a self-dual SU(2) does not by itself forbid a ν_R. The selection-rule slogan — a symmetry feels the hand only if it moves the shutter axis, so electromagnetism (rotating *about* it) is parity-clean — is the most *directly* geometric of the readings, but even it presumes the U(1) is gauged. Colour is more conditional still: the octonion arithmetic confirms that fixing one imaginary axis leaves exactly SU(3), with the quark triplet in the branching $1 \oplus 3 \oplus \bar{3}$ (Quantum physics/state_octonion_group_audit.py) — but the algebra only *permits* colour: it does not single out the axis (G_2 is transitive on the imaginary units), gauge the stabilizer, or fix its dynamics. Granting all of that, **$\theta_{QCD} < 10^{-10}$ reads as prohibition rather than miracle** — but as the most heavily conditioned entry in the article, resting on a stack of physical assumptions, and flagged as such wherever it appears.

One observable is then identical on every rung — the pseudoscalar of spin against advance. Weakly produced relativistic neutrinos, overwhelmingly negative-helicity (Goldhaber's measurement; a *massive* neutrino can in principle carry the opposite helicity, so this is a near-maximal bias, not a strict −1). The weak couplings, maximally left. Life's molecules, one-handed to the last protein, with the weak floor feeding a 10^{-19} eV bias whose amplification chemistry still debates — Pasteur, who pulled the two hands of tartrate apart in 1848 and suspected a cosmic source to his death, stands as the census's first witness. The matter excess of the universe joins as the same single bit — not the residue of a baryogenesis epoch P3 never had, but the standing expression of which way this universe turns, with no domain walls because there was never an epoch of choosing. And at the top rung stands the one entry never measured properly: a predicted **monopole** — every observer, every direction, the same small excess of galaxy spin against the infall — with **no large dipole axis** (any dipole confined to the universe's own tiny slow-spin: the Bookkeeping note's net rotation, a Kerr parameter $a = 6\times10^{-11}$, *i.e.* $\Omega/H = a/2 = 3\times10^{-11}$, a factor of three inside the ~10^{-10} CMB isotropy bound, one turn in ~3×10^{21} years). So a confirmed *percent-level* handedness axis would count against the isotropic reading, while the tiny spin is expected. As for the scale $a_0 = cH/2e \approx 1.2\times10^{-10}$ m/s^2: dimensional analysis fixes cH; the order-unity factor $1/(2e)$ is *structurally motivated* (the 2 from the spinor's 720°, the e from the exponential metric) but **not uniquely forced** — the Screw note itself grants that the standard heuristic $cH/2\pi \approx 1.04\times10^{-10}$ m/s^2 fits comparably ($1/(2e) = 0.184$ versus $1/(2\pi) = 0.159$) and present data cannot distinguish them — and the foundations paper quarantines it at 4.4%. A suggestive, structurally-argued coincidence with no dark matter, not a clean verification.

6. The Scorecard

Each entry below is computed in an accompanying script from the geometric postulates plus the measured inputs — and, where an additional physical assumption or a fitted factor enters, the last column says so. The status column matters as much as the number: *identity/theorem* means algebra with no room to miss; *derivation* means computed from the postulates; *consistency* means the framework agrees with data without deriving it; *conjectural/fitted* means a posited relation whose form is not derived; *conditional* means it rests on one of the stated physical assumptions. Two constants are fitted (the stiffness e = 5.45 and the a_0 denominator); the GM/Rc^2 row is definitional, not an audit. The reader is asked to weigh the column *with its statuses*, not the numbers alone.

Quantity	Computed	Measured	Status / Dev.
family law T·R = ħc/2πk_B	0.3644 mm·K	horizon T at each world's curvature radius	identity — Unruh temp; cosmic = 10^{-30} K (unobservable); CMB is the EM world's, not the cosmic one (§2)

Quantity	Computed	Measured	Status / Dev.
quark confinement = family law at colour curvature radius (0.203 fm; proton is the cage = $4\pi/3 \cdot R$)	155 MeV	156.5 ± 1.5 MeV	0.05%
proton identity $m_p \cdot c \cdot r_p$	$4\hbar$	$3.9983 \pm 0.0019\ \hbar$ (muonic)	0.04%
chemistry's temperature $\alpha^3 m_e c^2 / 2\pi k_B$	367 K	habitable band	—
rotation-curve scale $a_0 = cH/2e$	1.20×10^{-10} m/s²	$\approx 1.2\times10^{-10}$ (MOND fit)	cH derived (dimensional); the $1/(2e)$ structurally motivated (spinor 2, exp. e) but not unique — $cH/2\pi$ ($\approx 1.04\times10^{-10}$) fits too; quarantined 4.4%
universe near its own horizon GM/Rc^2	0.500000	$\rho \approx \rho_{crit}$ (observed)	definitional identity, not an audit
baryon winding number B	1.0000	1 (baryon number)	exact
Derrick virial of the knot	0.998	1	0.2%
knot energy / topological bound	$1.2319 \times 3\pi^2$	≥ 1 (bound)	—
nucleon mass M(J=1/2)	943.8 MeV	939 MeV	0.5%
Δ mass M(J=3/2)	1265.9 MeV	1232 MeV	2.8%
spin-statistics of the baryon	half-integer, forced	fermion	theorem
stiffness e vs first-mode coupling g	5.45 (fitted)	5.95–5.98 (ρ width, KSRF)	9%
stiffness length $1/(eF_\pi)$	0.281 fm	$\hbar/m_\rho$ = 0.255 fm	10%
Regge slope of the strong rung	0.896 GeV²	0.888 GeV² (fit)	0.9%
closure angle of the trinity	108.35°	tetrahedral 109.47°	1.0%
θ_{QCD}	forbidden by selection rule — conditional	$< 10^{-10}$	postulate-dependent
right-handed neutrino	reading: winding of an empty sphere	never observed	interpretation, not a derivation (SU(2) split does not forbid ν_R)
weak V−A chirality	reading of the one-sided SU(2)	V−A	interpretation — needs gauging & chiral reps (not derived)
colour SU(3) group + rep	stabilizer in G_2; $1\oplus3\oplus\bar{3}$	SU(3), quark triplet	kinematics only
Higgs as first weak harmonic $(3/2)m_W$	120.6 GeV	125.25 GeV	3.7% — quarantined

Any single line can be luck; several lines were known coincidences before this programme named their common law. The wager of the article is the column.

7. What Would Kill It

A programme that cannot die is not physics. Five deaths, named: (i) **redshift drift** — metric D is static; a confirmed secular drift of cosmological redshifts (the coming ANDES/ELT measurement) in the expanding-space pattern falsifies P3 outright; (ii) **the cosmic monopole** — if galaxy spin against infall, measured cleanly in three dimensions, is zero, the top-rung screw is dead; if instead a *large* (percent-level) handedness dipole axis is confirmed, the isotropic reading is dead (the framework permits only the universe's own tiny slow-spin dipole — Bookkeeping's Kerr a = 6×10^{-11}, $\Omega/H = 3\times10^{-11}$, *a factor of three inside the CMB isotropy bound); (iii) proton decay — the knot is topologically protected; one confirmed proton decay ends the middle stratum; (iv) the stiffness pattern — if improved Skyrme fits push the coefficient outside the first-mode band, the door-to-next-mode reading fails, and the quarantined Higgs assignment falls with it; (v) the lepton tower** — the programme requires the electron's fiber to carry its own harmonic tower; its construction (the muon as candidate ground tone) is the named next computation, and its failure would be public.

8. Flags, All of Them

Fitted: two constants — the stiffness e = 5.45 (priced at 9 percent against the first-mode coupling) and the order-unity denominator of $a_0 = cH/2e$ (a MOND-like posited relation whose factor is fitted, not derived). Interpretations, not derivations — results the geometry is *consistent with* but does not force: the weak V−A structure and the 'objectless' right-handed neutrino (one self-dual SU(2) is genuinely singled out by the one-sided curvature, but reading it as the chiral weak gauge group — with fermion representations, gauge dynamics, and no ν_R — needs added assumptions the split does not supply); the cosmic family-law rung reports a de Sitter *horizon* temperature (~10^{-30} K, the Unruh temperature of the curvature radius, verified) — a real but essentially unobservable whisper, not to be confused with the observed 2.7 K CMB, which is a *different object* (the electromagnetic rung's recombination relic, redshifted over seven curvature radii) and was never a cosmic-rung prediction — so the old '10^{30} miss' was a mis-assignment, dissolved in the companion note *The Family Law's Cosmic Rung*; and $GM/Rc^2 = ½$, a definitional identity for critical density, a consistency check and not an audit. Quarantined: the Higgs as first weak harmonic (3.7 percent, spin bookkeeping unresolved); the top/charm ≈ $1/\alpha$ near-hit; every entry so labelled in its home paper. Conditional on the octonion identification: the colour sector — its group and representation arithmetic now verified (dim Der($\mathbb{O}$)=14=G_2, stabilizer of one axis =8=SU(3), branching$1\oplus3\oplus\bar{3}$), but resting on three physical postulates the count does not supply — axis-selection (G_2 is transitive on the imaginary units, so no axis is preferred algebraically), the promotion of the rigid stabilizer to a local gauge interaction, and the Yang–Mills dynamics and coupling; the θ_{QCD} reading is therefore the article's most heavily conditioned entry. Also conjectured: the gravitational (as opposed to Yang–Mills) form of the nestling bound. Assumed: closed global topology with nonzero charge — made plausible, not proven (and the definitional ½ relation cannot serve as its evidence). Inherited, with priority stated loudly in every paper: the soliton mathematics

(Skyrme; the 1983 collective-coordinate computation), the instanton bound, the hidden-local-symmetry generation of the stiffness, the two-sphere decomposition (Cartan, Hopf), parity violation (Lee, Yang, Wu, Goldhaber), the acceleration scale's cH coincidence (Milgrom), and the octonion–Standard-Model programme (Furey, Dixon, Baez) — which reaches the same representation matches from $\mathbb{C}\otimes\mathbb{H}\otimes\mathbb{O}$ and hits the same gauging-by-hand gap this article flags, named here as a fellow at the same wall. Citations throughout the series are from memory; a literature-verification pass is a standing debt. The mathematics in this article is not new. **The claim is the assembly** — that these are not forty results but one object, seen at forty magnifications.

9. The Sentence

One law reads the horizon temperature of every world from its curvature radius (the cosmic rung a 10^{-30} K whisper, the CMB a separate relic on the electromagnetic rung); one curvature, nestled on one of two spheres, makes the universe eternal — under a stated topological assumption — by the same theorem that preserves the proton; and the hand of that curvature, screwed into the advance of time itself, is offered as the reason one handedness runs through the weak decays, through the neutrino never yet caught turning the other way, through life's molecules all winding one direction — a reading the particle rungs must still be shown to obey, not yet a proof — the wager being that the whole of it, force, mass, spin, hand, is one geometric object, condensed at forty magnifications, of which physics has been cataloguing the shadows: some rungs now derived, some only shown consistent, and every one of them labelled which.

References

The papers and notes of the It Is All One series, by stratum: the Postulates and the Allgemeine Feldtheorie; the family-law papers (Ledger of the Way; Four Calculations; Radii of the Worlds); the cosmology arc (Redshift as Infall; De Sitter or Metric D; The Quaternion Screw; The Delay That Makes G; The Floors of Condensation); the particle arc (From Space Quaternion to Particle; The Stiffness Is the Curvature; Four Quanta of the Proton; Why the Orbits Are Discrete); the chemistry rung (The Chemical Floor; Shape and Switch); the architecture and instrument notes (The Three Storeys; Chasing Shadows; Tick Count); the foundation of the present stratum, Curved One Way; and the note that resolves the cosmic rung, The Family Law's Cosmic Rung — Horizon, Not Bath. External priority as named in §8 and in each paper's own references. Verification scripts accompany their papers, from the Foundation up: frame_quaternion_verification.py (Hamilton's table, unit frame, Maurer–Cartan flatness, and the Skyrme-term-equals-curvature^2 identity confirmed on a real field at ratio 4.000000); engine_check.py (the family law as a horizon Unruh temperature at every scale, Hawking consistency, G as a horizon entropy density); then four_quanta.py, delayG_check.py, floors_check.py, skyrmion_check.py, stiffness_check.py, curved_one_way_check.py. (Citations from memory; the literature-verification pass applies.)

Acknowledgment: computation, verification, figures and drafting by machine (Claude, Anthropic), in a conversation conducted in two languages; the postulates, the sentences this article assembles, and the refusal of every shortcut are the author's. The article is the state quaternion of six years of thought: what passes the seal.