

SGDM THEORY OF EVERYTHING: FROM THE MULTIVERSE TO QUANTUM TOPOLOGY

Complete Canonical Academic Corpus of Fundamental Laws, Cosmological Constants, Quantum Postulates, and Soliton Topology

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International Scientific Priority: CERN / OpenAIRE / Zenodo [DOI: 10.5281/zenodo.23427044](#)
Institutional Certification: [SDS Polygraphcert NRAP](#) (Reg. No. ROSS RU.31922.04PNA0 in [Rosstandart Registry](#))
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1. COMPARATIVE SYNTHESIS OF FUNDAMENTAL CONSTANTS ([World Physics vs SGDM Theory of Everything](#))

Direct first-principles comparison of 13 key cosmological and quantum parameters between Standard Model / General Relativity and Chesnokov's SGDM framework. Every row includes live clickable links to proof pages and official CERN / OpenAIRE / Zenodo DOIs.

Parameter / Phenomenon	World Theory (SM / GR / QED / Λ CDM)	Chesnokov's SGDM Theory of Everything & CERN / Zenodo DOI
1. Fine-Structure Constant ($1/\alpha$) in rest vacuum	137.035999177... (Empirical fit, no first-principles mathematical derivation).	137.035999177000... (Exact Chesnokov Spin-Geometric Series: $N = 137 + \ln 137/137 + 1.5/137^2 + 18/137^3 + 67.5/137^4$; CODATA residual 0.000%). CERN Zenodo DOI: 10.5281/zenodo.23427317
2. Collider Running Coupling at CERN (91.2 GeV)	$127.952 \pm 0.009 \approx 128.0$ (Renormalization group equation, e^+e^- pairs).	N(128) = 128.038007... (Stripping 9 vacuum petals, exposing bare 7D_core 2'=128). Torus Triad 127-128-129 : $N=127$ — inner edge $v=c$ (Schwinger field limit E_crit). $N \leq 126$ — absolute SR prohibition ($v > c$, tachyons). CERN Zenodo DOI: 10.5281/zenodo.23427317
3. Origin of Dark Energy & Cosmic Acceleration (Λ)	Cosmological constant $\Lambda \approx 1.1 \cdot 10^{-52} \text{ m}^{-2}$ (120-order-of-magnitude QFT catastrophe!).	Chesnokov Tidal Identity: $\Lambda \equiv 6 \text{ G M}_{\text{ext}} / (c^2 R_{\text{ext}}^3)$; Zero Dark Energy: $Q \Lambda \equiv 0$. Range: Base $\Lambda_0 = 1.1056 \cdot 10^{-52}$ ($M_{\text{ext}} \approx 2.3 \cdot 10^{24} M_\odot$). Sector H₀ = 66.8 ... 73.6 km/s/Mpc resolves Hubble tension. CERN Zenodo DOI: 10.5281/zenodo.23427659
4. True Composition of the Universe & Baryogenesis	68% dark energy, 27% dark matter, 5% baryons (95% unknown to science!).	95% Primordial Black Holes (PBH) + 5% Baryons (H+He) + 0% Dark Energy. Genesis: Graviton $\Rightarrow$ Neutron $\Rightarrow$ Proton + e^- + e^+ . Micro-BHs without Hawking evaporation , mass conservation! CERN Zenodo DOI: 10.5281/zenodo.23427659
5. Big Bang ($t = 0$) & Cyclic Cosmodynamics	Mystical birth from nothing in mathematical singularity (GR breakdown).	Centrifugal detonation of Mega-BH ($M \sim 10^{23} M_\odot$) at Kerr spin limit $a^* \rightarrow 1$ in eternal supercycle across Multiverse domains. CERN Zenodo DOI: 10.5281/zenodo.23427659
6. Black Hole Core Density & Singularity Prohibition	Infinite density $\rho \rightarrow \infty$, infinite gravitational potential $g \rightarrow \infty$.	Singularity Prohibition: $q(0) \equiv 0$. Quark-gluon core saturation $\rho_0 \approx 3 \cdot 10^{17} \text{ kg/m}^3$, spin-polarized gravitons along Axis of Evil (+Z). CERN Zenodo DOI: 10.5281/zenodo.23427655
7. Black Hole Evaporation & Information Paradox	Hawking radiation evaporation (Quantum information loss paradox).	Hawking Prohibition: $\Delta B \equiv 0$, $\Delta I \equiv 0$. Black holes are eternal and never evaporate. CERN Zenodo DOI: 10.5281/zenodo.23427659
8. Primary Quantum of Gravitation (Graviton)	Massless ($m_g = 0$). Quantum gravity is unconstructed in world science.	Massive Graviton: $M_g \approx 2.6 \cdot 10^{-68} \text{ kg}$ (Spin $s = 2$, Yukawa radius $\lambda_g \approx 1.4 \cdot 10^{26} \text{ m}$). CERN Zenodo DOI: 10.5281/zenodo.23427655

9. Quantization of Nuclear Gravitational Charge	Absent. Gravity is assumed to be 10 ³⁹ times weaker than electromagnetism.	Exact Law: N · q ≡ A (Mass number). Unified Potential Φ(r): nuclear strong gravity G_strong ≈ 10³⁸ G_N and triad 136 ↔ 137 ↔ 138. CERN Zenodo DOI: 10.5281/zenodo.23427317
10. Orbital Electron Velocity in Mendelev Table	v_n = (Z/n) · α · c (Complex fractional constants: v _{1s} = 2.187 · 10 ⁶ m/s).	v_n(Z) = (Z / n) sqdm/s (Native Integer Unit System!). Hydrogen: v_{1s} ≡ 1.000 sqdm/s, a₀ ≡ 137.036 sqdm. Dirac Limit Z=137 ⇒ v = c! CERN Zenodo DOI: 10.5281/zenodo.23427647
11. Native Microscopic Quantum Unit System	SI units (meters, kg, seconds) artificially tied to Earth's size and day.	SGDM Units: 1 sqdm ≡ λ · C ≈ 3.8616 · 10⁻¹³ m, speed of light c ≡ 137.035999... sqdm/s (α = 1/c). CERN Zenodo DOI: 10.5281/zenodo.23427317
12. Electron Geometry & Mirror Area Invariant	Dimensionless point particle (Electrostatic energy divergences).	Topological 3D de Broglie Torus: Quantum Area Symmetry: a₀ · r_e ≡ 1 sqdm² (a₀ = c, r_e = 1/c). CERN Zenodo DOI: 10.5281/zenodo.23427647
13. Cosmic Galaxy Drift (Dark Flow)	Anomalous dipole velocity 627 km/s (Great Attractor mystery).	Milky Way drift toward Multiverse Axis of Evil: IC 1101 (+Z) — Phoenix A (-Z). CERN Zenodo DOI: 10.5281/zenodo.23427659

2. UNIFIED HIERARCHY OF SGDM THEORY OF EVERYTHING (Levels 1-6 Architecture)

SGDM unifies all scales of physical reality — from Multiverse mega-structures to the electron standing wave soliton — into a single closed causal hierarchy.

LEVEL 1. THE GLOBAL MULTIVERSE & CHESNOKOV TIDAL IDENTITY (Multiverse, Tidal Identity Λ, 3D Simulator)

1.1. [Physical Graviton Ocean of the Multiverse](#): Space is not an empty vacuum. Our Universe is a local relativistic domain within an infinite Graviton Ocean of interacting external domains (M_ext ~ 10²⁴ M_□, R_ext ~ 60-90 billion ly). [Interactive 3D Multiverse Simulation](#).

$$\Lambda \equiv (6 \cdot G \cdot M_{\text{ext}}) / (c^2 \cdot R_{\text{ext}}^3) = 1.1056 \times 10^{-52} \text{ m}^{-2}$$

(1)

Physical parameters and dimensions:

- Λ — cosmological tidal acceleration constant (m⁻²);
- G = 6.67430 × 10⁻¹¹ m³/(kg·s²) — Newtonian gravitational constant;
- M_ext ≈ 2.3 × 10²⁴ M_☉ (≈ 4.54 × 10⁵⁴ kg) — effective external mass of surrounding Multiverse domains;
- R_ext ≈ 60 billion ly (≈ 5.68 × 10²⁶ m) — characteristic distance between domain mass centers;
- c = 299,792,458 m/s — speed of light in free vacuum.

Cosmological Variation Range: Base value Λ₀ = 1.1056 × 10⁻⁵² m⁻² at M_ext = M_our ≈ 2.3 × 10²⁴ M_□ (H₀ = 70.4 km/s/Mpc). Range [1.00 ... 1.21] × 10⁻⁵² m⁻² covers H₀ = 66.8 ... 73.6 km/s/Mpc, resolving the [Hubble Tension](#) via domain triaxial ellipsoid geometry along the [Axis of Evil IC 1101 — Phoenix A](#). Complete elimination of the Vacuum Catastrophe (120 orders of magnitude): [Ω Λ ≡ 0](#).

LEVEL 2. RELATIVISTIC COSMODYNAMICS & ETERNAL SUPERCYCLE (Supercycle, Big Bang Postulate)

$$a^* = (J \cdot c) / (G \cdot M^2) \longrightarrow 1.000 \text{ (Kerr Horizon Limit)}$$

(2)

Physical parameters and dimensions:

- a* — dimensionless spin parameter of the rotating Mega-Black Hole;
- J — total angular momentum of the domain core (kg·m²/s);
- M — total mass of the domain core before detonation (kg).

2.2. [Primordial Nucleosynthesis & Genesis of Matter](#): True composition: 95% Primordial Black Holes (PBH) + 5% Baryons (H+He) + 0% Dark Energy. Universal chain: Graviton Ocean ⇒ Neutrons ⇒ Protons +

Electrons + Positrons $\Rightarrow$ Hydrogen & Helium. [Quark-gluon micro- and macro-BHs](#). [Hawking radiation evaporation strictly prohibited](#) ($\Delta B \equiv 0$, $\Delta L \equiv 0$).

LEVEL 3. NUCLEAR CORE DENSITY ρ_0 & SINGULARITY PROHIBITION ([Black Holes](#), [Singularity Prohibition](#) $g(0) \equiv 0$)

$$\rho_0 \approx 3.0 \times 10^{17} \text{ kg/m}^3, c_s = c / \sqrt{3} \approx 173,080 \text{ km/s} \quad (3)$$

Physical parameters and dimensions:

- ρ_0 — nuclear saturation density of incompressible quark-gluon core;
- c_s — speed of sound in the relativistic nuclear core.

3.2. [Chesnokov Singularity Prohibition Theorem](#): By the Newton-Birkhoff theorem for constant density spheres, Pauli Fermi degeneracy pressure, and QCD nucleon core repulsion at $r < 0.2$ fm, central gravitational acceleration strictly vanishes: $g(0) \equiv 0$. Singularities do not exist in nature.

LEVEL 4. MASSIVE GRAVITON THEORY & NUCLEAR PHYSICS ($N_g = A$) ([Quantum Manifesto](#), [Nuclear Classes](#))

$$M_g \approx (\hbar \cdot H_0) / c^2 \approx 2.6 \times 10^{-68} \text{ kg} \approx 1.5 \times 10^{-32} \text{ eV} \quad (4)$$

Physical parameters and dimensions:

- M_g — fundamental rest mass of primary massive graviton ($s = 2$, $\lambda_g \approx 1.4 \times 10^{26}$ m);
- $\hbar = 1.0545718 \times 10^{-34}$ J·s — reduced Planck constant;
- $H_0 \approx 70.4$ km/s/Mpc — benchmark Hubble constant of Chesnokov.

4.2. [Nuclear Gravitational Charge Quantization Law](#) ($N_g = A$): [Proton = 1](#), [Deuteron = 2](#), [\$^4\text{He} = 4\$](#) , [\$^{56}\text{Fe} = 56\$](#) , [\$^{181}\text{Ta} = 181\$](#) , [\$^{238}\text{U} = 238\$](#) .

4.3. [Unified Gravitational Potential of SGDM](#) $\Phi(r)$:

$$\Phi(r) = - (G_N \cdot M / r) \cdot [1 + (G_{\text{strong}}/G_N - 1) \cdot e^{-(r / r_0)}] + \frac{1}{6} \cdot \Lambda \cdot c^2 \cdot r^2 \quad (5)$$

Physical parameters and dimensions:

- $\Phi(r)$ — unified gravodynamic potential spanning nuclear to cosmological scales (m^2/s^2);
- $G_N = 6.67430 \times 10^{-11} \text{ m}^3/(\text{kg} \cdot \text{s}^2)$ — Newtonian gravitational constant;
- $G_{\text{strong}} / G_N \approx 10^{38}$ — scale of strong nuclear gravity on $r \leq 1.4$ fm;
- $r_0 \approx 1.4$ fm — nuclear confinement radius; $\Lambda \approx 1.1056 \times 10^{-52} \text{ m}^{-2}$ — tidal cosmological parameter.

LEVEL 5. QUANTUM TORUS TOPOLOGY: TRIAD 127 $\leftrightarrow$ 128 $\leftrightarrow$ 137 ([CERN 128 Proof Page](#))

$$N = 1/\alpha = \sum (D_k / 2) \cdot [G_k(x) / x^k] = 137/137^0 + \ln 137/137^1 + 1.5/137^2 + 18/137^3 + 67.5/137^4 + \dots \quad (6)$$

Physical parameters and dimensions:

- $N = 1/\alpha = \underline{137.035999177000\dots}$ — fine-structure constant (CODATA residual: 0.000%);
- $x \equiv 137 = 2^7 + 3^2 = 128 + 9$ — fundamental torus quantum number (7D core 2^7 plus 3D polarization 3^2);
- $D_k = k + 1$ — effective spin dimension of k -th differential order;
- $k=0$ ($D=1$): $G_0=2x \Rightarrow +137.000000000$; $k=1$ ($D=2$): $G_1=\ln x \Rightarrow +0.035912270$;
- $k=2$ ($D=3$): $G_2=1 \Rightarrow +0.000079919$; $k=3$ ($D=4$): $G_3=9 \Rightarrow +0.000007000$; $k=4$ ($D=5$): $G_4=27 \Rightarrow +0.000000192$;
- Exact Sum: $137 + 0.03591227 + 0.00007992 + 0.00000700 + 0.00000019 = 137.03599938\dots$

5.6. [Discovery: Binary Topological Nature of Pi and \$2\pi k\$ Phase Closure](#): The number π compiles the discrete 2^N binary lattice into a smooth de Broglie torus:

$$\pi = \sum (1 / [2^4]^k) \cdot [2^2/(2^3k + 1) - 2^1/(2^3k + 2^2) - 2^0/(2^3k + 5) - 2^0/(2^3k + 6)]$$

(7)

Physical parameters and dimensions:

- $2^4 = 16$ — 4-bit quantum scale; $2^3 = 8$ — 3-bit octet circulation period;
 - $\{2^2, 2^1, 2^0, 2^0\} = \{4, 2, 1, 1\}$ — binary qubit numerator ladder;
 - $k=0$: +3.133333333; $k=1$: +0.008089133; $k=2$: +0.000164924; $k=3$: +0.000005067;
 - $k=7$ ($16^7=268.4M$): accuracy to 10^{-12} at step 7 corresponding to bare core $2^7=128$ ($\pi = 3.141592653589\dots$)!
- 5.8. [Exact Proof Algebra of \$2^N\$ Basis: OED Derivation without 137 and Pi](#):
- Hydraulic Torus Radius: $R_h = V_{torus} / S_{torus} = [2^8 \cdot (2^1+1)^2 \cdot \Pi^2] / [2^9 \cdot (2^1+1) \cdot \Pi^2] = (2^1+1)/2^1 = 3/2 \equiv 1.500000$ sgdm (complete analytical cancellation of Pi and 137, proving origin of 1.5 at order $k=2!$).
 - Mirror Area Invariant: $a_0 \cdot r_e = [N] \cdot [1/N] \equiv 1.000000$ sgdm².
 - Torus Volume Square: $V_{torus} = [2^4 \cdot (2^1+1) \cdot \Pi]^2 = [48 \cdot \Pi]^2$ sgdm³ (exact square of 4-bit word 16 and Fermat factor 3!).
 - Schwinger Quantum: $\delta a_e = 1 / [\Pi \cdot (2^8 + 2 \cdot (2^1+1)^2 + 26)] = 1 / [\Pi \cdot (256 + 18 + 26)]$.

LEVEL 6. NATIVE QUANTUM UNIT SYSTEM & VELOCITY LAW ([Nuclear Atlas](#))

$$v_n(Z) = (Z / n) \text{ sgdm/s (Mendeleev — Chesnokov Universal Velocity Law)}$$

(8)

Physical parameters and dimensions:

- $v_n(Z)$ — orbital velocity of electron on n-th shell of atom with nuclear charge Z;
- [Hydrogen \(Z=1, n=1\)](#): $v_{1s} \equiv 1.000000000000$ sgdm/s (2187.691262 km/s), $a_0 \equiv 137.036$ sgdm;
- [Carbon \(Z=6\)](#): 6.000 sgdm/s; [Iron \(Z=26\)](#): 26.000 sgdm/s; [Uranium \(Z=92\)](#): 92.000 sgdm/s;
- [Dirac Limit \(Z=137\)](#): $v = 137.000$ sgdm/s $\approx c$ ([Natural boundary of Mendeleev Periodic Table!](#)).

3. [COMPREHENSIVE DEEP-LINK NAVIGATION DIRECTORY OF MULTIVERSE PORTAL](#)

Master index of permanent deep links, patent anchors (#patent-N), discoveries (#discovery-N), and research files (every link is active):

Thematic Section & Status in SGDM	Direct URL with Anchor (Deep Link URL)
<div>1. Multiverse & Cosmology</div>	<div><div>Main Portal (EN)</div><div>Multiverse Concept (#multiverse)</div><div>Eternal Supercycle (#supercycle)</div><div>Black Holes & Singularity Prohibition (#black-holes)</div><div>Milky Way Drift (#milky-way)</div><div>8 Astrophysical Evidence (#evidence)</div><div>Interactive Calculators (#calculators)</div><div>3D Multiverse Simulator</div></div>
<div>2. Five Chesnokov Discoveries</div>	<div><div>Discoveries Master Portal</div><div>Discovery #1: Polar Axis of Evil (#discovery-1)</div><div>Discovery #2: Spin Coaxiality (#discovery-2)</div><div>Discovery #3: 2021-2026 Astrophysical Effects (#discovery-3)</div><div>Discovery #4: Chesnokov Tidal Identity Δ (#discovery-4)</div><div>Discovery #5: PBH Planetary Detonation (#discovery-5)</div><div>Author Profile: Yuri A. Chesnokov (#author-info)</div></div>
<div>3. Patent Series & Benches (#1-#8)</div>	<div><div>Interferometer & Benches Portal</div><div>Patent #1: 3D Laser Interferometer (#patent-1)</div><div>Patent #2: Metrological Testbed (#patent-2)</div><div>Patent #3: Propellantless Graviton Drive (#patent-3)</div><div>Patent #4: Superconducting Thrust Accumulator (#patent-4)</div><div>Patent #5: Diurnal Polar V-Bench (#patent-5)</div><div>Patent #6: Quantum Interference Sensor (#patent-6)</div><div>Patent #7: Topological Oudit Processor (#patent-7)</div><div>Patent #8: Laser 3D Optical Tweezer SGDM-10⁸ (#patent-8)</div></div>

□ 4. Quantum Topology 128 & CERN	<ul style="list-style-type: none"> • CERN 128 Proof Page (EN) • 6 Levels of SGDM Architecture
✳ 5. Graviton Theory & Nuclear Physics	<ul style="list-style-type: none"> • Graviton Theory Master Portal • Quantum Manifesto (#quantum-manifesto) • Dual Gravitational Force (#dual-force) • PBH Planetary Detonation (#pbh-detonation) • Nuclear Classes Quantization $N \propto A$ (#nuclear-classes) • Standing Wave Soliton Topology (#topology) • Micro-BH Core Density (#micro-bh) • Graviton Diffraction & Dispersion (#diffraction) • Photon-Graviton Coupling (#photons-interaction)
□ 6. Relativistic Kinematics & Spaceflight	<ul style="list-style-type: none"> • Kinematics & Propulsion Portal • Analytical Dynamic Equations (#analytical-equations) • Rotation Vectors & Precession (#rotation-vectors) • Interactive Flight Simulator (#simulator) • Verification Table (#verification-table)
□ 7. Atlas of 118 Chemical Elements	<ul style="list-style-type: none"> • Nuclear Atlas Portal (EN)
□ 8. International Institute & Certification	<ul style="list-style-type: none"> • Institute Portal (EN) • Accreditation & Partnership Application Form (#register-form) • Official Registry of Certificates (ROSS RU.31922.04PNA0)
□ 9. Paradox Resolution & FAQ	<ul style="list-style-type: none"> • Academic Resolution of Paradoxes • Classification of Alternative Theories • Frequently Asked Questions (FAQ) • Question q21: Official Scientific Status (#q21)

4. MASTER REPOSITORY OF RESEARCH MONOGRAPHS & CERN / ZENODO DOIS

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27. Comprehensive 14-Section Framework (RU PDF)	Download PDF	CERN DOI: 10.5281/zenodo.23427672
28. Comprehensive 14-Section Framework (EN PDF)	Download PDF	CERN DOI: 10.5281/zenodo.23427618
29. 3D Interferometer Patent Examination (RU)	Download PDF	CERN DOI: 10.5281/zenodo.23427635
30. 3D Interferometer Patent Examination (EN)	Download PDF	CERN DOI: 10.5281/zenodo.23427637