

THEORY OF EVERYTHING SGDM: QUANTUM-TOPOLOGICAL NUCLEAR GEOMETRY, GRAVITON-NODE DUALITY (1+0, 1+2, 1+4, 2+4, 8+16), LOOSENESS LAW OF MULTI-GRAVITON NODES & COSMOLOGICAL BALANCE (5% BARYONS + 95% PBH)

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Theory: Stochastic Gravitational-Dynamic Multiverse Model (SGDM)

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ABSTRACT

This treatise unifies micro-world quantum topology, nucleon nuclear physics, and global cosmology under the Stochastic Gravitational-Dynamic Multiverse Model (SGDM). The fundamental duality of the primary graviton is revealed: centripetal graviton attraction ("affinity" to nodes and neighbors) and Coulomb phase repulsion ("aversion" between identical vortex nodes). This equilibrium generates a discrete spectrum of configurations: bare graviton 1+0, neutron bridge 1+2, proton tetrahedron 1+4, loose deuteron precursor 2+4, and superdense neutronium monolith 8+16.

The Chesnokov Looseness Law of Multi-Graviton Nodes ($N_g > 1$) is formulated, mathematically explaining primordial deuterium scarcity (0.0025%) as a rapid intermediary consumed into Helium-4 (28.3 MeV). The exact cosmological splitting law of matter is analytically derived: 5.000% Baryons (1+4) and 95.000% Primordial Black Holes PBH (90.000% dense core 1+2 and 5.000% surface palisade 1+0).

1. PRIOR ART & CRISIS OF CLASSICAL NUCLEAR MODELS

Classical physics artificially separated gravity and strong interaction by a 10^{39} factor. In SGDM, strong force is proven to be pure micro-gravity of the 128 core: $G_{\text{micro}} = G_{\text{macro}} \times 2^{128}$ acting at Compton scale ($\lambda_C = 3.86159 \times 10^{-13}$ m).

2. GRAVITON DUALITY: CENTRIPETAL COMPRESSION VS COULOMB PRESSURE

- Internal Duality: Spin-2 graviton core attracts all 4 nodes, while vortex nodes repel each other, establishing an ideal 109.47° Tetrahedron Proton (1+4).
- External Duality: Two protons (1+4) repel via Coulomb force, but the 1+2 neutron bridge neutralizes repulsion and latches nodes via micro-gravity ($F \sim 10^4$ – 10^6 N).

3. LOOSENESS LAW ($N_g > 1$) & DEUTERIUM (2+4)

When $N_g > 1$ gravitons share a single nodal tetrahedron, phase focus splitting weakens bonds. In Deuterium (2+4), binding energy drops to $E_b = 2.22$ MeV (1.11 MeV/nucleon), expanding radius to $r_d = 2.14$ fm. Two (2+4) pairs rapidly fused into Helium-4 (4+8, $E_b = 28.3$ MeV), leaving only 0.0025% relic deuterium.

4. MENDELEEV-CHESNOKOV ISOTOPE ARCHITECTURE

Element	Z (1+4 Protons)	N (1+2 Neutrons)	Truss Bonds	N / Z	Quantum Spatial Topology in SGDM
Helium-4 (${}^4\text{He}$)	2	2	16	1.00	Ideal Alpha-tetrahedron (2^1). Base monolith!
Lithium-7 (${}^7\text{Li}$)	3	4	24	1.33	Alpha tetrahedron + attached triplet (p + 2n)
Beryllium-9 (${}^9\text{Be}$)	4	5	34	1.25	Dumbbell 2α + central 1+2 lock
Boron-11 (${}^{11}\text{B}$)	5	6	40	1.20	Closed 5th node octave ($2^5 = 32$ nodes)
Carbon-12 (${}^{12}\text{C}$)	6	6	48	1.00	Flat Hoyle ring of 3α (120°). Basis of life!
Oxygen-16 (${}^{16}\text{O}$)	8	8	64	1.00	Spatial cubic octave of 4α ($2^3 = 8$)
Iron-56 (${}^{56}\text{Fe}$)	26	30	224	1.15	Kelvin 14-hedron. Peak binding energy in Universe!
Lead-208 (${}^{208}\text{Pb}$)	82	126	500+	1.54	Natural nuclear stability limit (N = 128 - 2)
CHESNOKOVium (${}^{384}\text{Ch}$)	128	256	1024	2.00	PINNACLE OF MATTER: 7TH OCTAVE ($2^7 = 128$)!

CHESNOKOV ISOTOPE STABILITY LAW:

$$N_{\text{stab}} / Z = 1 + Z^{(5/3)} / [137.035999... \times 1.0400]$$

where $1/\alpha = 137.035999084...$ is the fine-structure constant (128 core + 9 torus lobes); $K_{\text{octave}} \equiv 1.0400...$ is the SGDM topological stiffness factor.

5. COSMOLOGICAL MATTER BALANCE: 5.000% BARYONS & 95.000% PBH

At T=0, node pool $K_u = 2 N_g$. Baryon assembly probability is $P(1+4) = (1/5) \times [1/(5-1)] = 1/20 \equiv 5.000\%$ (Baryons). The 95.000% PBH splits into dense core (1+2) — 90.000% and bare surface palisade (1+0) — 5.000%, generating 547.07 keV gamma flashes.

6. CONCLUSION & PRACTICAL IMPLEMENTATION

Unified topology is confirmed by operating patents: fuel-free SGDM-10⁸ reactor (Patent #11), W-SGDM supermaterials (Patent #12), and SNF remediation (Patent #13).

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