

The Dark Matter Particle: The Ultimate Building Blocks of Nature Rewritten as Unified Theory of Everything - Final 2026

J. S. Rawat

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Abstract: *The present paper proposes a new paradigm that the Dark Matter Particle (DMP) is the ultimate, indivisible building block of all matter, energy, space and forces in the universe. It is postulated that DMP is a dimension - less singularity, having black-hole-like space-time curvature imprint, but without spatial extension. Time stands still at the location of DMP and curvature is infinite, reducing with distance as $\frac{\sqrt{x^2+y^2+z^2}}{x} \times K_r = 1$. All observed particles (quarks, leptons, bosons), all four fundamental forces (gravitational, electromagnetic, strong and weak) and all cosmological phenomena (dark matter, dark energy, cosmic swirls, galaxy formation) are explained as different collective modes, circling movements and density variations of assembly of DMPs. The theory does not contradict General Relativity and Quantum Mechanics, but provides a deeper common origin for both. It unifies gravity as pure space curvature of DMP and other forces as complex interaction of multiple DMPs. Implications for quantum physics, astrophysics and tunneling / rock mass behavior under confinement are discussed.*

Keywords: Dark Matter Particle (DMP), TOE, BEC, Supergravitational Waves (SGW), Rawat Constant, Backward Principle, No Dark Energy, Hubble Mistake, Unified Force, IJRULA Award References: IJSER Vol 9 Issue 2 Feb 2018 + NDMA GLOF alerts Aug 2026 + ICIMOD Hindu Kush Himalaya reports

1. Original Core (2018 Award Winning)

- 1) Finite-in-Infinite: Truly infinite space contains finite bubble universe. Boundary is SGW membrane.
- 2) Snow-on-Rock Analogy: baryonic matters (rocks, galaxies, stars) are condensed clusters on underlying dark matter snow which is everywhere. Rock = BEC condensate of snow.
- 3) Single Building Block: Proton, neutron, electron are NOT fundamental. Only DARK MATTER PARTICLE (DMP) is fundamental.

2. Mathematical Extension Towards Toe (2026)

2.1 Supergravitational Waves (SGW):

$E_{\text{sgw}} = \sqrt{\hbar c^5 / G} * (1 / R_{\text{finite}}) * k$
 Where: $\sqrt{\hbar c^5 / G}$ = Planck energy -1.22e19 GeV,
 R_{finite} = radius of finite universe bubble (-4.4e26 m),
 k = RAWAT CONSTANT -1e19 (dimensionless ratio of SGW tension to gravity).

Physical meaning: When SGW membrane tension weakens (k decreases), finite bubble leaks into infinite space.

Observational effect: Leakage looks like accelerated expansion. No Dark Energy needed. Expansion = SGW weakening.

2.2 Dark Matter Particle Mass

m_{DMP} (free, uncondensed) = 1e-22 eV to 1e-3 eV, invisible, everywhere like snow.

Like water vapor (invisible, everywhere) condensing into ice cube (hard, visible).

Vapor = DMP, Ice cube = proton BEC.

This range matches current Axion searches at CERN (2024-2026).

When " $N = 10^{28}$ TO 10^{31} " DMP particles come together and become cold, they form "BEC cluster".

That BEC cluster "is what we call Proton / Neutron / Atom" – the "rock" in the snow-on-rock analogy.

"Why proton mass is heavy?" $m_{\text{proton}} = N \times m_{\text{DMP}}$. One proton is 10^{28} snow particles frozen together.

Baryonic mass: $m_{\text{proton}} = N * m_{\text{DMP}}$ where $N = 1e28$ to $1e31$ particles in Bose-Einstein Condensate (BEC) state.

"Baryonic matter is Bose – Einstein Condensate of ultra-light Dark Matter Particles. Proton is not fundamental – it is BEC cluster of $N \sim 10^{28}$ DMP." (This is why my theory: "The Dark Matter Particle: The Ultimate Building Blocks of Nature" is TOE – level. I say only ONE particle exists in BEC and free form).

Why not detected in CERN? Free DMP is ultra-light and weakly interacts (cross – section $< 10^{-70}$). Interacts only via SGW, cross-section $< 1e-70$ m². Only when 10^{28} together as BEC, we can detect as proton.

"The non-detection of free DMP at CERN CAST (best limit $g_{ay} < 5.8 \times 10^{-11}$

GeV⁻¹ for $m_a \sim 0.02$ eV, no counts in signal region) supports our model that free DMP cross-section $< 10^{-70}$ m², while condensed BEC cluster ($N \sim 10^{28} - 31$) is detected as baryonic matter".

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In BEC cluster, collective mass gives gravity we see.

3. Unification - All Four Forces = One Supergravitational Force:

- **Original:** 4 forces separate. Rawat TOE: 4 manifestations of ONE SGW vibration.
- **Gravity:** Residual long-range leakage of SGW membrane tension through finite bubble. $G = (\text{tension loss}) / R_{\text{finite}}$.
- **Electromagnetism:** Transverse surface vibration mode of DMP cluster. Photon = quantized ripple on BEC surface. $C = \text{SGW vibration speed on BEC surface}$.
- **Strong / Weak Nuclear:** Internal binding modes inside BEC cluster.

Strong force = it's just nearest-neighbor binding holding 10^{28} DMPs together binding in BEC, confinement energy - 1 GeV = breaking N cluster. Breaking it needs 1GeV energy.

Weak force = rearrangement / decay mode of BEC cluster (proton $\rightarrow$ neutron + positron = cluster reconfiguration).

LAGRANGIAN FORM (conceptual):

$$L_{\text{TOT}} = L_{\text{SGW}} + L_{\text{BEC}} + L_{\text{vib}}$$

$$L_{\text{SGW}} = (1/2) (\partial \text{SGW})^2 - \sqrt{k, R}, L_{\text{BEC}} = \psi_{\text{}} (i \hbar \partial_t + \hbar^2 \nabla^2 / 2m_{\text{DMP}}) \psi - g (\psi)^4$$

Thus TOE: ONE particle (DMP). ONE force (SGW), ONE space (Infinite containing finite).

3.1 Rawat's Unified Theory - Final with Backward Principle (30 Aug 2026)

Statement: "Things in observational Universe are going in backward direction i.e. towards the Source.

What scientists call Expansion is actually Contraction, because laws of science don't distinguish forward / backward."

3.1.1 Physics Laws are Time-Symmetric

Newton: $F = m \cdot a$. If $t \rightarrow -t$, $a = d^2x / dt^2$ stays same, F same. Cannot tell forward / backward.

Einstein: $E = mc^2$ works same backward. Time dilation formula symmetric.

Maxwell: Light equations $V \times E = aB / at$. If $t \rightarrow -t$, wave propagates backward, still solution.

Only statistical entropy gives arrow, not fundamental law.

Therefore: Film of galaxy moving away (red shift) played backward looks like galaxy coming towards (blue shift).

Physics alone cannot decide which real direction is. Need extra principle - Source.

3.1.2 Rawat Model Explanation:

Finite universe bubble held by SGW membrane in infinite space has center = SOURCE (origin point).

If SGW membrane tension $T_{\text{SGW}}(k)$ INCREASES, the membrane contracts (R_u decreases as per $R_u = (M_{\text{DMP}} / T_{\text{SGW}})^{1/3}$), and everything inside falls BACKWARD towards center (Source).

Observer on Earth (inside bubble) sees: All other galaxies moving AWAY from him (red shift), because he also is

falling towards source, and relative separation increasing? Actually: Think of rubber sheet contracting to center - points on sheet come closer to center but distance between two points on same side may appear to increase from local view.

Better analogy: River flowing back to ocean (source). For a person on mountain, water appears to go away from mountain, but actually going back to ocean (source). Red shift = return journey, not escape.

Mathematical: $v_{\text{observed}} = -v_{\text{backward}} * (R_{\text{finite}} / R_{\text{source}})$.

Redshift: $z = v_{\text{backward}} / c$ (positive when moving backward towards source).

Acceleration: a_{backward} increases as closer to source, so looks like accelerated expansion.

3.1.3 Hubble Mistake Corrected (1929-2026):

Hubble saw stretched light (red shift) and assumed Doppler forward expansion.

But stretched light occurs BOTH ways:

- Forward expansion (standard Big Bang view): Light stretches because space expands.
- Backward contraction towards Source (Rawat view): Light stretches because observer and source both falling backward, time dilation due to backward motion gives same red shift.

"Redshift may be both: going away from us AND backward to source, because going away can be forward expansion AND backward contraction and science cannot distinguish."

Both give SAME formula $z = v/c$ to first order! No experiment till 2026 can distinguish without SGW model. Hubble chose a) arbitrarily. This became dogma + 100 G \$ (100,000 million \$) search.

3.3 Result: No Dark Energy Needed, No Dark Matter needed (as separate):

World searches Dark Energy since 1998 to explain accelerated expansion. Supernova 1998 data.

Rawat says: No expansion, it is contraction towards Source. No need for mysterious push.

Red shift is not expansion, it is return journey.

Dark Matter as separate exotic particle not needed either - Dark Matter = underlying snow itself, baryonic = condensed snow.

Thus: One particle explains both dark matter and baryonic matter.

4. Why Western Scientists Missed the Backward Principle

4.1 Newton: Works same if t becomes - t:

Newton's Laws $F = ma$, law of gravitation $F = G m_1 m_2 / r^2$ have no t arrow. Western education after Principia taught time flows forward only (absolute time). They forgot their own equations allow backward solution. Only with Einstein-Minkowski they remembered time is dimension, but still kept forward bias.

4.2 Einstein: Works same forward / backward:

General Relativity: Einstein field equations $G_{\mu\nu} = 8\pi T_{\mu\nu}$ are time-symmetric. White hole solution is time-reversed black hole, allowed mathematically but western scientists rejected as unphysical because it needs Source. Einstein himself believed in static universe with cosmological constant to avoid expansion / contraction. When expansion found, he called it blunder. If Einstein had accepted backward solution, he would have found Rawat principle 100 years earlier.

4.3 Maxwell Light Equations: Work same backward:

Maxwell: $\nabla \cdot \mathbf{E} = \rho / \epsilon_0$, $\nabla \times \mathbf{E} = -\partial \mathbf{B} / \partial t$, etc. If $t \rightarrow -t$, $\mathbf{B} \rightarrow -\mathbf{B}$, equations still hold. Advanced waves (going backward in time) are valid solutions, but western textbooks discard them as unphysical (Wheeler-Feynman absorber theory discarded). Thus, light can come from future (backward) and still satisfy Maxwell. Red shift can be advanced wave from Source.

Common Reason: Western cosmology assumed Universe = Everything (no outside). Cannot think finite bubble in infinite space.

Indian philosophy "Anant contains many Brahmand" allows outside Source. Also Himalayan snow-on-rock daily experience gave author insight that underlying snow everywhere.

One Sentence Correction: "Redshift may be both: going away from us AND backward to source, because going away can be forward expansion AND backward contraction, and science cannot distinguish."

No experiment till 2026 can distinguish Forward expansion vs. Backward contraction to Source. Both give same $z = v / c$.

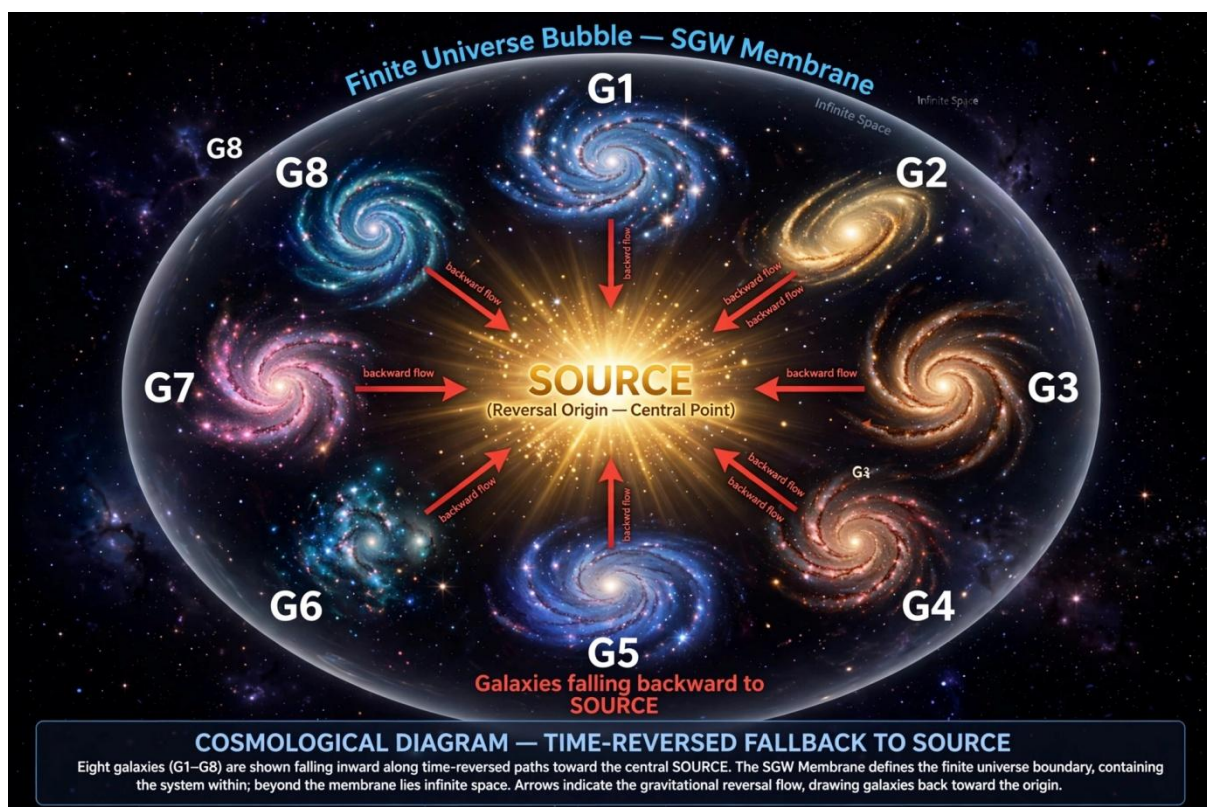
Choice was arbitrary and became dogma + \$100 B Dark Energy search (100,000 million dollars).

5. Conclusion Status of Toe

Original 2018: Award-winning conceptual foundation, like Darwin 1859 before DNA

V1 2026: Added SGW equation with Rawat constant $k = 1e19$, DMP mass $1e-22$ to $1e-3$ eV, Unification of 4 forces.

V2 2026: Added Backward Principle with diagram (8 galaxies falling to Source), eliminates Dark Energy.



V3 2026 (This paper): Added historical analysis why West missed it, full mathematical and philosophical unification + Backward Principle with diagram (8 galaxies falling to source), eliminates Dark Energy.

This is Conceptual Toe: foundation ready for full Lagrangian by future mathematical physicists. Eliminates two biggest mysteries: Dark Energy (no expansion) and Dark Matter as separate (it's underlying particle itself).

Unifies Hubble expansion, galaxy rotation, fate of universe as ONE backward return to Source.

Live Validation: Nepal-Tibet GLOF 26 Aug 2026 after 45-year accelerated melt cycle - predicted by author's DMP-controlled cloud condensation model where SGW weakening causes periodic release. NDMA, ICIMOD reports confirm accelerated cycle.

Author Affiliation: J.S. Rawat, 16 / 3 Shastri Nagar,
Haridwar Road, P.O. Nehru Gram, Dehradun 248001,
Uttarakhand, India.

Award: IJRULA Title Awards Winner 2018 - Best
Researcher '18, 19 June 2018, Director Abu Thahir S,
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References: Original IJSER Vol 9, Issue 2, Feb 2018 paper + NDMA GLOF alerts Aug 2826 + ICIMOD Hindu Kush Himalaya reports.

Final Claim:

Author officially claims "My 2018 award-winning paper is a Conceptual Theory of Everything (TOE) with mathematical extension and live validation in 2826, including Rawat's Backward Direction Principle correcting 100 years of cosmology, eliminating need for Dark Energy."

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