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Base Document EN

This document compiles the fundamental papers of Einstein-VED.

EINSTEIN-VED - The Deterministic Framework that Completes Einstein's Program

EN_0

General summary of the fundamental principles of Einstein-VED: holographic geometry, boundary relations and geometric determinism. **Concepts:** neutron, schwarzschild, newton, gravity, holographic, cooper, 3s+t, bohr

Formulas:

$$ds^2 = dx^2 + dy^2 + dz^2 + dt^2 \quad (+\,+\,+\,+) \quad \text{in } \mathbb{C}^4$$

$$G_{\text{universal}} = G(n = 2)$$

Document .md

Axiomatic Critique of Heisenberg's Uncertainty Principle

EN_1

Nature is not written in differential equations, but in boundary relations. **Concepts:** heisenberg, fundamental, quantum

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Einstein-VED: Determinism, Indeterminacy, and Free Will

EN_2

The quantum of action is not a statistical limit, but the minimum possible holographic surface. **Concepts:** 3s+t, dimension, fundamental, ved, quantum, constant, scale, einstein

Document .md

3S+T Geometry and Determinism in Einstein-VED

EN_3

Space is not a background, but a network of topological relations. **Concepts:** 3s+t, heisenberg, dimension, fundamental, ved, quantum, dual, collapse

Formulas:

$$ds^2 = -dt^2 + dx^2 + dy^2 + dz^2$$

$$dx' = \gamma(dx - vdt), \quad dt' = \gamma(dt - vdx)$$

Document .md

- Einstein-VED: Deterministic Derivation of the Proton and the R_VED Formula

EN_4

The electron is not a point particle, but a closed surface fulfilling n=137 as a harmonic closure condition. **Concepts:** 3s+t, dimension, fundamental, proton, ved, quantum, compton, radius

Formulas:

$$E = mc^2 = h\nu \quad \Rightarrow \quad \nu = \frac{mc^2}{h}$$

$$\lambda_C = \frac{c}{\nu} = \frac{h}{mc}$$

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Theoretical Framework of the Electron and Cooper Pairs

EN_5

Mass is topological curvature trapped in a stable configuration. **Concepts:** cooper, atom, quantum, electron, surface, orbital

Formulas:

$$n = 137$$

$$L_{\text{Cooper}} = 2 \cdot n_{\text{orbital}} \cdot \lambda_e$$

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The Neutron: Origin, Internal Structure, and Decay

EN_6

The proton emerges as a stable boundary topology in the holographic network. **Concepts:** neutron, nucleus, holographic, atom, radio, dimension, proton, ved

Formulas:

$$n \longrightarrow p + e^{-} + \bar{\nu}_e$$

$$\nu_{\text{neutron}} = \nu_{\text{proton}} + \nu_e + \nu_{\bar{\nu}_e}$$

Document .md

Gravity as a Geometric Relation of Radii

EN_7

Gravity is not a force, but a consequence of the density of holographic connections. **Concepts:** schwarzschild, gravity, holographic, 3s+t, universal, dimension, fundamental, proton

Formulas:

$$R_{\text{VED}} = n \cdot \frac{\hbar}{Mc}$$

$$R_{\text{Sch}} = \frac{2GM}{c^2}$$

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Planck Constant as a Geometric Relation of Radii

EN_8

The quantum of time is the minimum synchronization interval between two surfaces. **Concepts:** schwarzschild, gravity, atom, universal, fundamental, proton, ved, constant

Formulas:

$$G(n) = \frac{\pi c^3}{4\hbar} \cdot \frac{R_{\text{VED}}\, R_{\text{Sch}}}{n}$$

$$\hbar(n) = \frac{\pi c^3}{4G_{\text{universal}}} \cdot \frac{R_{\text{VED}}\, R_{\text{Sch}}}{n}$$

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Einstein-VED Framework: Determinism, 3S+T Geometry and Rigorous Critique of Quantum Mechanics

EN_9

Spin is a solid angle of the geometric phase on a closed surface. **Concepts:** 3s+t, universal, heisenberg, dimension, fundamental, ved, quantum, collapse

Formulas:

$$v = \frac{ds}{dt}$$

$$f(t) = F(\text{initial conditions}, t)$$

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Fundamental Geometry of the Universe

EN_11

Fundamental Geometry of the Universe **Concepts:** schwarzschild, 3s+t, universal, dimension, fundamental, proton, ved, quantum

Formulas:

$$(X, Y, Z, T) \in \mathbb{C}^4$$

$$\begin{aligned} x &= a_1 + b_1\, i \\ y &= a_2 + b_2\, j \\ z &= a_3 + b_3\, k \\ t &= a_4 + b_4\, l \end{aligned}$$

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Theory of the Stellar Engine by Electronic Boundary Collapse

EN_12

Theory of the Stellar Engine by Electronic Boundary Collapse **Concepts:** neutron, nucleus, gravity, 3s+t, bohr, atom, universal, fundamental

Formulas:

$$p^+ + e^- \longrightarrow n + \nu_e$$

$$E_\nu = (m_p + m_e - m_n)c^2 - E_{\text{boundary}} \approx 0.78\,\text{MeV}$$

Document .md

Proton Magnetic Moment

EN_13

Proton Magnetic Moment **Concepts:** neutron, 3s+t, dimension, fundamental, proton, ved, quantum, constant

Formulas:

$$2\pi R = n\lambda, \qquad n \in \mathbb{Z}^+$$

$$R_p = \frac{n\lambda_p}{2\pi} = \frac{nh}{2\pi m_p c}$$

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The 22 Internal Modes of the Nucleon

EN_14

The 22 Internal Modes of the Nucleon **Concepts:** neutron, 3s+t, dimension, fundamental, proton, ved, quantum, constant

Formulas:

$$p_i = |\cos\theta_i| = \frac{|\vec{T}_i \cdot \vec{T}_0|}{|\vec{T}_i||\vec{T}_0|}$$

$$\sum_{i=1}^{22} (f_i p_i)^2 = 4.739043$$

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Observational Verification of the Stellar Engine

EN_15

Observational Verification of the Stellar Engine **Concepts:** neutron, bohr, universal, proton, ved, electron, dual, radius

Formulas:

$$M_{\min} \approx 150 - 300\, M_{\odot}$$

Document .md

The Geometry of Quarks

EN_16

The Geometry of Quarks **Concepts:** neutron, 3s+t, dimension, fundamental, proton, ved, quantum, dual

Formulas:

$$Q = I_3 + \frac{1}{2}(B + S + C + B' + T)$$

$$Q = \frac{2}{3}[(n_u - n_{\bar{u}}) + (n_c - n_{\bar{c}}) + (n_t - n_{\bar{t}})] - \frac{1}{3}[(n_d - n_{\bar{d}}) + (n_s - n_{\bar{s}}) + (n_b - n_{\bar{b}})]$$

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Derivation of Newton's Laws from the Geometry of the Universe

EN_17

Derivation of Newton's Laws from the Geometry of the Universe **Concepts:** neutron, schwarzschild, newton, gravity, holographic, 3s+t, universal, dimension

Formulas:

$$G_{\text{universal}} = G(n = 2)$$

$$R_{\text{VED}i} \cdot R_{\text{Sch}i} = \frac{n_i \hbar G}{\pi c^3}$$

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GENESIS: Geometric Cosmology of the Neutron

EN_18

Documento EN_18 del marco Einstein-VED **Concepts:** neutron, nucleus, newton, gravity, 3s+t, bohr, atom, fundamental

Formulas:

$$\vec{\omega} \propto dt_x \times dt_y \cdot \vec{e}_z + dt_y \times dt_z \cdot \vec{e}_x + dt_z \times dt_x \cdot \vec{e}_y$$

$$f3 + f2 \longrightarrow f1 \longrightarrow n$$

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EN_MARCO EINSTEIN-VED: The Deterministic Framework that Completes Einstein's Program

EN_19

Documento EN_19 del marco Einstein-VED **Concepts:** neutron, schwarzschild, newton, gravity, holographic, cooper, 3s+t, bohr

Formulas:

$$\begin{aligned} x &= a_1 + b_1\, i \\ y &= a_2 + b_2\, j \\ z &= a_3 + b_3\, k \\ t &= a_4 + b_4\, l \end{aligned}$$

$$ds^2 = dx^2 + dy^2 + dz^2 + dt^2 \quad (+\,+\,+\,+)$$

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Authorship and Contact

EN_20

Documento EN_20 del marco Einstein-VED **Concepts:** neutron, newton, particula, gravity, universal, tiempo, dimension, espacio

Formulas:

$$\beta$$

$$dt^2 = ds^2 + dm^2$$

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EN_22_isotopes_prediction_stability Einstein-VED: Deterministic Nucleon Geometry and Isotope Stability Prediction

EN_22

_isotopes_prediction_stability Einstein-VED: Deterministic Nucleon Geometry and Isotope Stability Prediction **Concepts:** neutron, nucleus, gravity, 3s+t, bohr, atom, universal, dimension

Formulas:

$$\oint_{4D} ds = n \cdot \lambda$$

$$2\pi R_{ved} = n\lambda, \quad n \in \mathbb{Z}^+$$

Document .md

EN_24 Isotopes Prediction: Prediction According to Einstein-VED

EN_24

Isotopes Prediction: Prediction According to Einstein-VED **Concepts:** neutron, nucleus, gravity, atom, universal, dimension, fundamental, proton

Formulas:

$$\oint_{4D} ds = n \cdot \lambda$$

$$2\pi R_{ved} = n\lambda, \quad n \in \mathbb{Z}^+$$

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EN_25 Rigorous Framework of Confined Waves and Atomic Structure

EN_25

Rigorous Framework of Confined Waves and Atomic Structure **Concepts:** neutron, nucleus, cooper, atom, universal, dimension, proton, ved

Formulas:

$$\Delta\phi_{\text{total}} = 2\pi n, \quad n \in \mathbb{Z}^{+}$$

$$R_{ved} = \frac{n\lambda}{2\pi}$$

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EN_26 Isotope and Molecular Stability According to Einstein-VED: Rigorous Prediction

EN_26

Isotope and Molecular Stability According to Einstein-VED: Rigorous Prediction **Concepts:** neutron, nucleus, gravity, radio, dimension, proton, ved, quantum

Formulas:

$$\oint_{4D} ds = n\lambda, \quad n = 4$$

$$\Delta = \mid n_{total} - 4 \mid \cdot \sqrt{22}$$

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Einstein-VED — Unified theory of nuclear stability (atoms and molecules)

EN_27

Einstein-VED — Stability of isotopes and radioactive molecules **Concepts:** neutron, nucleus, 3s+t, atom, radio, fundamental, proton, ved

Formulas:

$$L = n \cdot \lambda$$

$$R_{ved} = \frac{n\lambda}{2\pi}$$

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Nuclear stability results (tests 1–24)

EN_28

Nuclear stability results — Einstein-VED (tests 1–24) **Concepts:** neutron, nucleus, fundamental, proton, ved, constant, radius, einstein

Formulas:

$$R_{ved} = R_p \cdot A^{1/3} \cdot (1 + \alpha \frac{N - Z}{A})$$

$$n_{total} = \frac{4Z + (4 + \delta_n)N + C(Z, N)}{A}$$

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Topological Foundations of the Einstein-VED Framework

EN_30

No description available

Concepts: neutron, nucleus, gravity, holographic, 3s+t, dimension, fundamental, proton

Formulas:

$$R_{\mathrm{VED}} = \frac{n\hbar}{Mc}$$

$$R_{\mathrm{VED}}^{\mathrm{proton}} = R_{\mathrm{proton}}^{\mathrm{CODATA}}$$

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On the sign of the cosmological redshift drift

EN_31

On the sign of the cosmological redshift drift **Concepts:** atom, ved, quantum, constant, dual, einstein

Formulas:

$$\frac{dr}{dt} > 0 \quad \text{with} \quad dt > 0$$

$$z = \frac{\lambda_{\mathrm{obs}} - \lambda_{\mathrm{em}}}{\lambda_{\mathrm{em}}} \approx \frac{v}{c} \quad \text{(for small z)}$$

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Objections to the Einstein-VED Framework

EN_32

Objections to the Einstein-VED Framework **Concepts:** neutron, gravity, 3s+t, atom, fundamental, proton, ved, quantum

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The Origin of Primordial Supermassive Black Holes

EN_33

No description available

Concepts: neutron, fundamental, proton, ved, electron, surface, collapse, einstein

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Open Questions and New Research Pathways

EN_34

No description available

Concepts: neutron, holographic, 3s+t, atom, dimension, fundamental, proton, ved

Formulas:

$$R_{\mathrm{VED}} = \frac{n\hbar}{Mc}$$

$$R_{\mathrm{VED}}^{\mathrm{proton}} = R_{\mathrm{proton}}^{\mathrm{CODATA}} = 0.841 \text{ fm}$$

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