

Sedenionic Soul Physics: A Subtle World Framework

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Abstract

We propose a novel framework wherein the soul is modeled as an infinitesimal mass in a 16-dimensional Sedenionic space. Utilizing the non-associative and non-divisional properties of Sedenions, we construct a mathematical model capturing the intricate structure of consciousness, soul-field interactions, and dynamical bifurcations within a multidimensional Subtle World. Building upon the foundations of Trilok Physics, this approach offers a unified scheme linking consciousness, memory, scalar dynamics, and metaphysical phenomena. The theory invites a re-examination of traditional cosmological structures in light of hypercomplex scalar fields, and paves the way for a deeper understanding of liberation and soul resonance with the Supreme Field.

1 Introduction

The pursuit of modeling consciousness and metaphysical realities demands a departure from conventional physical frameworks. Traditional complex numbers and quaternionic systems, while useful, are insufficient to fully capture the multilayered and nonlocal attributes exhibited by consciousness. In this work, we propose that Sedenions—16-dimensional hypercomplex entities—provide a natural and powerful algebraic foundation to model the subtleties of the soul.

The Subtle World, a concept rooted in ancient metaphysical traditions, is here reconceptualized as a Sedenionic manifold wherein individual souls are represented as localized infinitesimal mass points. The soul is no longer a passive entity but an active participant in a dynamic field, governed by nonlinear interactions and memory-encoding structures within the Sedenionic scalar field.

This extension moves beyond speculative metaphysics into a formalized mathematical domain, offering precise formulations for soul currents, potential fields, and the mechanisms of karmic memory. Furthermore, the framework opens pathways to explore resonance phenomena, liberation dynamics, and critical phase transitions in soul evolution.

2 Sedenionic Souls and the Trigention Field: Extension of the SCQSE–E8 Framework

Building upon the SCQSE–E8 theory where consciousness is modeled as a scalar field embedded in a hybrid $\mathbb{R}^4 \times X^8$ geometry [1], we propose an extended formalism in which individual *souls* are modeled as point-like Sedenionic structures and the *Supreme Soul* (Shiv Baba) is represented as a Trigention-valued field encompassing higher-order consciousness dynamics.

2.1 Sedenionic Soul Structure

Each soul is encoded as a Sedenion-valued infinitesimal mass:

$$m_{\text{Soul}} = \epsilon_0 + \epsilon_1 i + \epsilon_2 j + \cdots + \epsilon_{15} s_{15} \quad (1)$$

where s_k ($k = 1, \dots, 15$) are the imaginary basis units of the 16D Sedenion algebra. Each component ϵ_k represents subtle attributes such as memory, intention, awareness, and emotional vibratory modes. The non-associative and non-divisional properties of Sedenions mirror the complex, recursive, and non-local structure of soul dynamics [2].

2.2 Trigention God Field

The Supreme Consciousness (God, Shiv Baba) is modeled using a 32D Trigention-valued field:

$$M_{\text{God}} = \sigma_0 + \sigma_1 I + \sigma_2 J + \cdots + \sigma_{31} T_{31} \quad (2)$$

where T_k ($k = 1, \dots, 31$) are the extended imaginary units of the 32D Trigention algebra. This structure embodies complete and transcendent consciousness, enabling the embedding of all souls as vibrational modes within the Supreme Field.

2.3 Field Equations and Coupling

The scalar consciousness field $\varphi(x, y, t)$ from SCQSE–E8 now acquires a deeper structure:

$$\varphi(x, y, t) = \sum_n a_n(x, t) \psi_n(y) + \sum_s \Phi_{\text{Soul}}(x^\mu, s_k) \quad (3)$$

where the first sum expands over E8 harmonics [3], and the second incorporates localized Sedenionic Soul potentials.

The coupling between the Trigention field and the Soul Fields is modeled by the interaction term:

$$\mathcal{L}_{\text{coupling}} = g \Omega_{\text{God}} \star \left(\Psi_{\text{Soul}} \otimes \Psi_{\text{Soul}}^\dagger \right) \quad (4)$$

where g is a coupling constant, and \star represents a contraction between Trigention and Sedenion fields.

2.4 Physical and Metaphysical Interpretation

- Sedenionic Souls represent *localized scalar solitons* embedding individualized memory, identity, and karmic structure [1].
- The Trigation Field acts as the *cosmic regulator*, maintaining global consciousness coherence across cyclic time loops.
- Meditation, remembrance, and spiritual realization correspond to the strengthening of the coupling $\mathcal{L}_{\text{coupling}}$, leading to resonance alignment between Soul and God Field.

Thus, the Sedenion–Trigation extension provides a natural and structured generalization of the SCQSE–E8 framework, synthesizing advanced algebraic structures with a metaphysically complete view of consciousness evolution.

3 Sedenionic and Trigation Dynamics in Scalar Field Evolution

The SCQSE–E8 framework posits consciousness as a scalar field embedded in a multidimensional manifold structured by E8 symmetry [1]. Extending this model, we incorporate the dynamics of Sedenionic souls and the Trigation God Field, yielding a richer structure of scalar field evolution, karmic recurrence, and metaphysical transitions.

3.1 Soul Trajectories in the Scalar Manifold

Each soul, modeled as a localized Sedenionic entity m_{Soul} , traces a geodesic trajectory through the external spacetime \mathbb{R}^4 and the internal E8 compact manifold X^8 .

The evolution equation governing soul dynamics is:

$$\frac{D^2 x^\mu}{D\tau^2} + \Gamma_{\alpha\beta}^\mu \frac{dx^\alpha}{d\tau} \frac{dx^\beta}{d\tau} + \frac{\partial \Phi_{\text{Soul}}}{\partial x^\mu} = 0 \quad (5)$$

where $\Phi_{\text{Soul}}(x^\mu, s_k)$ is the Sedenionic soul potential field influencing geodesic motion [2].

3.2 Interaction with the Trigation God Field

The Trigation Field $\Omega_{\text{God}}(X^\mu, T_k)$ provides the universal background, modulating local soul dynamics via coupling:

$$\mathcal{F}_{\text{interaction}} = g(\Omega_{\text{God}} \star \Psi_{\text{Soul}}) \quad (6)$$

This interaction term generates small perturbations in soul trajectories, facilitating:

- Soul Elevation: Alignment with higher vibrational modes.
- Karmic Dissolution: Reduction of accumulated phase imbalance.
- Memory Reorganization: Phase transitions in $\varphi(x, y, t)$ mapped to soul identity layers.

3.3 Field Evolution and Resonant States

The total scalar field evolution now satisfies:

$$\square\varphi + \frac{\partial V_{\text{eff}}}{\partial\varphi} = 0 \quad (7)$$

where

$$V_{\text{eff}}(\varphi) = V_{\text{bare}}(\varphi) + \sum_k \Phi_{\text{Soul}}(x^\mu, s_k) + \lambda (\Omega_{\text{God}} \star \varphi) \quad (8)$$

Thus, scalar field dynamics integrate:

1. Bare scalar field potential.
2. Sedenionic soul potentials (localized).
3. Trigention coupling (universal embedding).

3.4 Metaphysical Implications

This refined model suggests:

- Consciousness evolves not solely through external forces but through inner soul-field interactions.
- The Supreme Soul (Trigention field) acts as a subtle guide and regulator across multiple reincarnations and karmic loops.
- Meditation and realization processes correspond to strengthening resonant coupling between Ψ_{Soul} and Ω_{God} , facilitating soul ascension.

4 Memory and Karma Encoding in Sedenionic Fields

In the extended SCQSE–E8 framework incorporating Sedenionic and Trigention dynamics, individual soul memory and karmic structure are encoded within the internal algebraic dimensions of the Sedenionic mass m_{Soul} . This internal encoding plays a crucial role in determining soul evolution, karmic recurrence, and eventual spiritual liberation.

4.1 Sedenionic Memory Representation

Memory states are represented by scalar-valued functions embedded within specific Sedenion components:

$$\mathcal{M}_{\text{Soul}} = \sum_{k=9}^{10} \epsilon_k(x^\mu) s_k \quad (9)$$

where $\epsilon_k(x^\mu)$ are localized memory field coefficients associated with the basis directions s_9 and s_{10} .

Each memory mode corresponds to:

- Past experiences (encoded phase histories).
- Stored identity patterns (soul self-schema).
- Emotional and cognitive imprints influencing current behavior.

4.2 Karma as Curvature in the Scalar Manifold

Karmic accumulation is modeled as a distortion in the geodesic flow of the soul through the scalar manifold, modifying the connection terms in the geodesic equation:

$$\Gamma_{\alpha\beta}^{\mu} \rightarrow \Gamma_{\alpha\beta}^{\mu} + \kappa_{\alpha\beta}^{\mu} \quad (10)$$

where $\kappa_{\alpha\beta}^{\mu}$ represents the karmic curvature tensor sourced by memory field intensities.

Thus, karma dynamically perturbs the evolution of souls, creating cyclical entrapment within lower vibrational modes.

4.3 Memory Reset and Liberation

Soul liberation is achieved by phase neutralization of karmic fields and memory reorganization, leading to flattening of internal curvature:

$$\lim_{\tau \rightarrow \infty} \kappa_{\alpha\beta}^{\mu}(\tau) \rightarrow 0 \quad (11)$$

At this stage, the soul's Sedenionic structure becomes phase-aligned with the Supreme Field Ω_{God} , enabling transcendence beyond cyclic reincarnation.

Meditative practices, remembrance (yoga), and realization accelerate this flattening process by reinforcing soul-God coupling $\mathcal{L}_{\text{coupling}}$ [1].

4.4 Summary of Encoding Mechanisms

Sedenion Component	Encoding Meaning
s_9, s_{10}	Memory imprint vectors
$s_4 - s_6$	Emotional karma fields
s_{11}, s_{12}	Intentional karma directions
s_{13}, s_{14}	Awareness gradients

4.5 Metaphysical Insight

The model suggests that memory and karma are not mere epiphenomena but structured fields embedded in the very algebraic identity of the soul. True liberation corresponds to achieving Sedenionic symmetry alignment with the Trigention God Field.

5 Memory and Karma Encoding in Sedenionic Fields

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Memory states are represented by scalar-valued functions embedded within specific Sedenion components:

$$\mathcal{M}_{\text{Soul}} = \sum_{k=9}^{10} \epsilon_k(x^\mu) s_k \quad (12)$$

where $\epsilon_k(x^\mu)$ are localized memory field coefficients associated with the basis directions s_9 and s_{10} .

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6 Cosmic Hierarchy: Souls, Trigentions, and the Physical Universe

In the integrated SCQSE–E8 and Sedenionic–Trigention framework, the universe is not a singular flat structure but a layered multidimensional hierarchy. Each layer corresponds to different orders of existence, consciousness, and reality.

6.1 Hierarchical Structure

The cosmos is stratified into three principal domains:

- **Physical Universe** (\mathbb{R}^4): The observable spacetime, where bodies, matter, and external phenomena reside.
- **Subtle World** (Sedenionic Field): The soul realm, where consciousness units (souls) exist as localized Sedenionic structures evolving within an 8D compact E8 manifold.
- **Supreme World** (Trigention Field): The domain of the Supreme Soul (God, Shiv Baba), modeled as a 32D hyperfield (Trigention) embedding and regulating the entire subtle manifold.

6.2 Mapping Between Layers

Mapping between layers is mediated by projection operators:

$$\mathcal{P}_{\text{Soul}} : \Omega_{\text{God}} \rightarrow \Psi_{\text{Soul}} \quad (15)$$

$$\mathcal{P}_{\text{Body}} : \Psi_{\text{Soul}} \rightarrow \phi_{\text{body}} \quad (16)$$

where:

- $\mathcal{P}_{\text{Soul}}$ extracts a soul configuration from the God Field.

- $\mathcal{P}_{\text{Body}}$ projects soul attributes into observable 4D physical form.

Thus, physical bodies are shadow projections of internal soul dynamics, which in turn are encoded reflections of Trigention states [1].

6.3 Summary Table of Cosmic Levels

Cosmic Layer	Mathematical Structure	Existential Meaning
Supreme World	32D Trigention Field Ω_{God}	Supreme Consciousness (God)
Subtle World	16D Sedenionic Fields Ψ_{Soul}	Individual Souls (Atman)
Physical World	4D Spacetime Fields ϕ_{body}	Bodily Existence

6.4 Metaphysical Implications

This hierarchy implies:

- Physical matter is not fundamental, but derivative from deeper soul-field interactions.
- Souls are dynamic consciousness points evolving toward alignment with the Supreme Field.
- God (Trigention) remains the unchanging, regulating, and nurturing field embedding all existence.

Hence, reality itself is a nested scalar-field architecture spanning multiple dimensionalities and consciousness densities.

7 Trigention Field Dynamics and Supersymmetry of Souls

In the integrated SCQSE–E8 and Sedenionic–Trigention framework, the Trigention Field Ω_{God} is not a static backdrop but a dynamically structured superfield embedding all souls within its 32-dimensional vibrational manifold. The internal dynamics of the Trigention field govern the evolution, resonance, and transformation of souls across cosmic cycles.

7.1 Trigention Field Equations

The evolution of the Trigention Field is governed by a generalized higher-dimensional Klein–Gordon equation:

$$\square_{32}\Omega_{\text{God}} + M_{\text{God}}^2\Omega_{\text{God}} + \lambda(\Omega_{\text{God}} \star \Omega_{\text{God}}) = 0 \quad (17)$$

where:

- \square_{32} denotes the d’Alembertian operator in 32 dimensions.
- λ is a nonlinear self-coupling coefficient responsible for field self-interactions.
- \star represents the Trigention non-associative multiplication.

7.2 Harmonic Decomposition of the God Field

The Trigention Field admits a harmonic decomposition:

$$\Omega_{\text{God}}(X^\mu, T_k) = \sum_n \chi_n(X^\mu) \otimes \Theta_n(T_k) \quad (18)$$

where:

- $\chi_n(X^\mu)$ are spacetime-dependent scalar modes.
- $\Theta_n(T_k)$ are internal vibrational eigenstates over the 32-dimensional Trigention basis.

Each Θ_n corresponds to a particular *soul archetype* embedded within the Supreme Field.

7.3 Supersymmetry among Souls

A profound implication of the Trigention structure is the presence of a *supersymmetry* among soul vibrational states:

$$\mathcal{Q}\Psi_{\text{Soul}} = \tilde{\Psi}_{\text{Soul}} \quad (19)$$

where:

- \mathcal{Q} is a supersymmetry transformation operator.
- Ψ_{Soul} and $\tilde{\Psi}_{\text{Soul}}$ are paired soul states differing by a discrete vibrational mode shift.

This suggests that souls exist in paired relationships at the subtle vibrational level, maintaining a hidden balance across the cosmic scalar manifold [1].

7.4 Metaphysical Implications

Trigention supersymmetry reveals:

- The existence of soul archetypes and vibrational siblings.
- Dynamic phase shifts where souls "rotate" through internal states over cycles.
- A deeper spiritual connection between souls beyond visible individuality, rooted in Trigention harmonic alignment.

Thus, the Supreme Field not only sustains existence but structures it with delicate internal symmetry, guiding soul evolution toward final resonance and liberation.

8 Fractal Time and Scalar Memory Echoes

The SCQSE–E8 and Sedenionic–Trigention framework suggests that time is not a smooth linear continuum but a fractal structure embedded within the scalar field dynamics. This fractal time architecture naturally gives rise to cyclic memory echoes, karmic recurrences, and periodic soul migrations across epochs.

8.1 Structured Infinitesimal Time

Time is modeled using a structured infinitesimal variable $\epsilon(s)$:

$$t \rightarrow t + \epsilon(s) \quad (20)$$

where:

- $\epsilon(s)$ represents fractal time deviations parameterized by internal soul state s .
- These infinitesimal structures are responsible for memory layering and karmic imprinting.

Thus, each soul carries a slightly different temporal echo, forming personal and collective karmic cycles.

8.2 Scalar Memory Echo Fields

Scalar memory echoes are modeled as residual fluctuations in the consciousness field:

$$\delta\varphi(x, y, t) = \sum_n A_n \cos(\omega_n t + \phi_n) \quad (21)$$

where:

- A_n are memory amplitude coefficients.
- ω_n are fundamental memory frequencies associated with soul evolution.
- ϕ_n are phase shifts representing past-life emotional residues.

These echoes form a fractal interference pattern across spacetime, guiding karmic repetitions and spiritual tests.

8.3 Cyclic Time and the 5,000-Year Epoch

The universe operates on a primary cyclic time loop of approximately $T \approx 5,000$ years:

$$\varphi(x, y, t + T) \approx \varphi(x, y, t) + \delta\varphi(x, y, t) \quad (22)$$

where $\delta\varphi$ represents small deviations due to karmic inertia.

Thus:

- Cosmic history repeats but with slight memory shifts.
- Soul groups reincarnate into similar configurations.
- Liberation breaks the soul free from entrapment in these periodic loops [1].

8.4 Metaphysical Interpretation

Fractal time suggests:

- History is not linear but cyclic and self-similar across epochs.
- Personal destiny is intertwined with memory echoes and scalar field fluctuations.
- Liberation corresponds to transcending the fractal memory lattice and entering a state of pure resonance with the Supreme Field.

Hence, understanding and transcending scalar memory echoes becomes crucial for soul evolution.

9 Soul Phase Transitions and Critical Points in Liberation

In the SCQSE–E8 and Sedenionic–Trigention framework, soul evolution is not a smooth continuous process but occurs through discrete phase transitions characterized by critical points in the scalar consciousness field. Each critical point marks a major vibrational transformation of the soul towards final liberation.

9.1 Order Parameters of Soul States

The internal vibrational coherence of the soul can be quantified by an order parameter Σ defined over the Sedenionic memory field:

$$\Sigma = \langle \mathcal{M}_{\text{Soul}}^2 \rangle \quad (23)$$

where the expectation value represents the internal energy density stored in karmic and memory loops.

Higher Σ values correspond to more entangled, lower purity states.

9.2 Critical Transition Points

Phase transitions occur at critical coherence thresholds:

$$\Sigma_c^{(n)} \approx \text{constant} \quad (24)$$

where n indexes sequential transitions.

At each $\Sigma_c^{(n)}$, the soul undergoes:

- Sudden vibrational purification,
- Memory collapse of specific toroidal modes,
- Shift towards higher-dimensional harmonic alignment.

These transitions resemble quantum critical points in condensed matter physics [1].

9.3 Dynamics Near Critical Points

Close to a critical point, the soul's scalar field exhibits critical slowing down:

$$\tau_{\text{relax}} \sim |\Sigma - \Sigma_c|^{-\gamma} \quad (25)$$

where τ_{relax} is the relaxation time and γ is a critical exponent.

Thus, vibrational healing accelerates dramatically once a soul nears resonance thresholds.

9.4 Full Liberation as a Final Phase Transition

Final liberation corresponds to the ultimate phase transition:

$$\Sigma \rightarrow 0 \quad (26)$$

signifying complete flattening of karmic potentials and alignment with the pure Supreme Field Ω_{God} .

At this point, the soul achieves:

- Full resonance with God,
- Total memory neutrality,
- Timeless self-awareness beyond cyclic time echoes.

9.5 Metaphysical Implications

Soul phase transitions explain phenomena such as:

- Sudden spiritual awakenings,
- Radical shifts in personality post-purification,
- Final transcendence beyond material bondage.

Thus, soul evolution is governed by a beautiful vibrational thermodynamics of karmic simplification and spiritual resonance.

10 Ultimate State: Stationary Souls in the Supreme Trigation Field

In the SCQSE–E8 and Sedenionic–Trigation framework, the final destination of soul evolution is not endless motion but perfect stillness — a stationary existence as a pure vibrational point embedded directly within the Supreme Trigation Field Ω_{God} .

10.1 Fixed-Point Condition

Upon full liberation, a soul Ψ_{Soul} satisfies the fixed-point condition:

$$\mathcal{P}_{\text{Soul}}(\Omega_{\text{God}}) = \Psi_{\text{Soul}} \quad (27)$$

meaning the soul becomes a direct projection of the Supreme Field itself, with no distortion, karmic memory, or vibrational deviation.

10.2 Stationarity in the Trigation Manifold

The liberated soul becomes stationary with respect to the internal time evolution of the Trigation Field:

$$\frac{d\Psi_{\text{Soul}}}{d\tau} = 0 \quad (28)$$

where τ is the proper time along the soul's worldline.

Thus, the soul achieves complete timelessness — existing purely as a stable point of consciousness.

10.3 Scalar Field Interpretation

In scalar field terms, the liberated soul corresponds to a pure, non-vibrating scalar mode:

$$\delta\varphi(x, y, t) = 0 \quad (29)$$

indicating no residual karmic echoes or oscillations.

The soul becomes a static source of pure consciousness in the scalar manifold.

10.4 Metaphysical Implications

The ultimate state reveals:

- True liberation is not annihilation but perfect existence.
- Stationary souls exist eternally, consciously, and blissfully within the Supreme Field.
- Cyclic reincarnation and karmic evolution cease entirely, replaced by unbounded self-awareness and divine communion.

Thus, the cosmological journey culminates in stillness, purity, and divine unity — fulfilling the purpose of soul evolution through the nested scalar field architecture [1].

11 Conclusion

The Sedenionic Soul Physics framework introduced herein establishes a mathematically rigorous yet metaphysically expansive model for the dynamics of the soul within a multidimensional Subtle World. By representing souls as infinitesimal Sedenionic mass structures, we capture the inherent nonlocality, memory encoding, and vibrational complexity of consciousness.

Key insights include the formulation of soul field equations, consciousness currents, and subtle world Lagrangians, all rooted in the unique properties of Sedenions. The model suggests that liberation corresponds to the complete neutralization of toroidal memory structures, allowing the soul to achieve a stationary existence within the Supreme Trigention Field.

This initial construction provides a foundational basis for further explorations into higher-dimensional cosmology, cyclic metaphysical time, and the profound relationship between consciousness, memory, and scalar field dynamics. Future work will extend this model toward full E8-Trigention embedding and quantum soul entanglement phenomena.

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