An Alchemical Triadic Oscillation Framework of The Natural Elements: Relational Cosmology, Substrate Spiral, and Harmonic Periodicity

Liana Morgan Pinner, M.A.

January 28, 2026

Abstract

This paper proposes a symbolic–structural model in which the sequence of chemical elements is mapped onto a spiral geometry segmented into twelve sectors, each containing triadic groupings. The framework is informed by alchemical process philosophy, wave-based periodic interpretations, and harmonic cosmology.

Within this geometry, elements participate in nested triadic structures of functional roles (directional, mediating, embodied) and modal phase behaviors (initiating, stabilizing, transitional), producing a tessellated pattern of triadic oscillation across the spiral. Radial organization reveals a substrate spiral, a hierarchy through which nuclear-dominant states give rise to structural, electronic, bonding, and life-compatible regimes.

The model preserves atomic order and does not propose new chemical mechanisms, but offers a phenomenological and relational lens for interpreting periodic behavior, material capability, and recursive harmonic patterning as expressions of organized oscillatory structure.

1. Philosophical Foundation: Relational Cosmology

1.1 From Polarity to Triadic Vectors

Many cosmological, philosophical, and scientific models describe the generative structure of reality through dual polarities: expansion and contraction, electric and magnetic, active and passive, light and dark. Such descriptions effectively characterize the dynamic tension of differentiation. However, duality alone cannot account for formation, interaction, or continuity.

This framework proposes a prior structural understanding that apparent polarities are not binary absolutes but triadic vectors composed of magnitude, direction, and relational field.

A vector, in both physical and conceptual terms, requires three components:

- Magnitude: degree of potential or intensity
- Direction: orientation of movement or gradient
- Relational field: Context in which direction and magnitude have meaning

Without the relational field, magnitude and direction cannot be expressed. Thus, formation arises not from opposition, but from variation within relational continuity where triadic vectors describe emergence.

This shift reframes cosmology from a model of conflict between opposites to a model of gradient expression within a unified field.

1.2 The Alchemical Triad and Generative Process

Classical alchemical philosophy contains a process logic that aligns with this relational structure. The formulation attributed to Mary the Jewess — *“The One becomes Two, Two becomes Three, and out of the Third comes the One as the Fourth”* — expresses a generative progression rather than a static dualism.

The “third” is not an additional substance, but the mediating function through which differentiation becomes interaction. Without mediation, opposites remain abstract. With mediation, exchange occurs, and form can arise.

This logic parallels the alchemical triadic structure of:

- directional coherence (solar/sulphur/gold principle)
- relational mediation (Mercurial principle)
- embodied fixation (lunar/salt/moon principle)

In alchemy, it is widely understood that these three principles are not the base elements but higher expressions of a single unity, and that all things contain the essence of each. Thus, these principles represent functional phase states and structural processes. The triad describes the minimal structure required for interaction, feedback, stabilization, and continuity. A triad in the right relation generates processes and emergence.

1.3 Rhythmic Interchange and Octave Recursion

The cosmology articulated by Walter and Lao Russell describes the universe as structured by rhythmic balanced interchange — a continual oscillation of compression and expansion, integration and disintegration. Through this framework, matter is motion slowed into appearance, and organization emerges through repeating octave patterns.

While the present framework does not adopt Russell’s terminology literally, it shares a structural resonance: manifestation proceeds through recursive oscillatory cycles in which motion patterns become stabilized into increasingly complex forms.

This supports the idea that material organization does not reflect linear accumulation but layered emergence through oscillatory repetition.

1.4 The Relational Field as Generative Matrix

To describe the relational medium within which differentiation becomes organized form, this framework distinguishes two complementary aspects of structural emergence:

Descriptor	Structural Meaning
Integrative field	The immanent relational medium that supports embodiment, stabilization, and continuity of form
Ordering gradient	The directional structuring influence through which differentiation, coherence, and pattern arise

These descriptors do not refer to two functional aspects of relational emergence:

- **Integration from below** (embodiment, stabilization, structural continuity)
- **Orientation from above** (patterning, gradient formation, directional coherence)

Together, these describe a generative matrix through which gradients are organized and form persists.

1.5 Consequences for Material Organization

If emergence proceeds through triadic vectors within a relational field, then material organization should exhibit:

- recursive triadic oscillation and tessellation
- layered emergence of capability
- transitions between regimes of dominance (field, structure, interaction, embodiment)

The elemental model developed in this paper is presented as a material analogy of this relational cosmology rather than as a replacement for empirical chemistry.

2. Prior Conceptual Lineages

The framework draws on several streams of thought that share an interest in patterned emergence, harmonic organization, and relational cosmology. These sources are referenced as conceptual lineages, not as empirical authorities.

2.1 Wave-Based Periodicity

Alternative interpretations of the periodic system have framed elemental organization as oscillatory rather than strictly linear. Walter Russell proposed that matter arises through wave cycles of compression and expansion, organized in octave-like repetitions. The present model does not adopt Russell's specific physical claims; it parallels the structural notion that periodic behavior may be understood as recurring wave patterns rather than linear organization.

2.2 Alchemical Process Logic

Classical alchemy, particularly the early Hermetic and Hellenistic traditions, presents a process-oriented cosmology in which transformation proceeds through staged mediation rather than through binary opposition. The philosophy attributed to Mary the Jewess expresses this generative triadic logic. Alchemical triads of Sulphur, Mercury, and Salt historically served as symbolic descriptions of energy, mediation, and embodiment. These functional roles resonate structurally with the triadic vector framework explored here.

Hermetic philosophy, through Renaissance resurgence and modern esoteric traditions (e.g., Manly P. Hall), outline frameworks of correspondence linking celestial patterns, elemental qualities, and material processes. These symbolic systems offer a language for describing relational patterns across scales.

2.3 Harmonic and Geometric Cosmology

Philosophical and esoteric traditions frequently interpret nature through harmonic ratios and geometric recurrence. Thinkers such as Robert Edward Grant have explored geometry as a language of pattern emergence, while historical fascination with numerical harmonics (e.g., Tesla's interest in 3–6–9 relationships) reflects a broader

intuition that recursion and proportion may underlie natural order. In this paper, numerical recurrences are treated as emergent structural artifacts and patterns of resonance.

2.4 Occult Universal Elemental Philosophy

Modern esoteric elemental systems interpret the four universal elements as behavioral archetypes. Fire as transmission, Earth as stabilization, Air as interaction, and Water as integration. These modal behaviors are used consistently in this framework. Similar to the philosophy of sulphur, mercury, and salt, this philosophy recognizes that all four pillar elements are present in all things, with dominant expressions according to the differentiated unit (Dominguez, 2021).

2.5 Cultural Significance of 108 and the 14 Ghost Positions

The use of 108 as a structural total appears across multiple cultural and symbolic contexts, including astronomical ratios, spiritual bead counts, and architectural harmonics in sacred structures.

This model resonates with harmonic principles, in which 108 emerges not merely as symbolic but as a closure point in phi-based recursion and elemental symmetry. Although not explicitly mapped to elemental enumeration, its appearance within geometric and planetary cycles reflects its natural fit within this proposed harmonic periodicity (Grant).

In this model,108 is employed as a structural container for triadic recursion rather than as a claim about physical chemistry. The “ghost” positions are conceptual boundary states marking oscillatory transitions.

2.6 Summary

These conceptual lineages share a common intuition that nature may be structured by recurring relational patterns rather than by isolated substances or forces.

The present framework synthesizes this intuition into a coherent structural model of emergent patterning, alchemical and cosmological correspondence, and a shared language, maintaining a clear distinction between symbolic correspondence and empirical science.

3. Structural Constraints and Method

This framework was designed to preserve existing coherence and logic while allowing relational patterning to emerge. The method does not alter established chemical data; it reorganizes known information within a symbolic–geometric structure to explore emergent behaviors.

3.1 Preservation of Atomic Order

The atomic number sequence is maintained without modification. No element is repositioned outside its numerical progression to ensure the model remains true to the known periodic structure and avoids unnecessary reassignment.

3.2 Spiral Field Projection

Instead of representing elements in a rectangular grid, the sequence is projected into a continuous spiral geometry divided into twelve sectors along the Zodiac wheel beginning with the first constellation of the wheel Aries with seven ghost elements and Hydrogen (1) - Helium (2), and ending with the last sign Pisces, with natural elements Plutonium (93) and Neptunian (94) and the other seven ghost elements. The spiral representation allows periodic recurrence to be visualized as cyclic rather than linear, is organized into corresponding archetypes, and supports the wave-based premise introduced earlier.

The twelve-sector division functions as a structural segmentation tool, allowing us to see patterns of correspondence and a consistent container for grouping elements into repeating triadic units.

3.3 Boundary Conditions and Structural Completion Through “Ghost Positions”

The spiral field is organized into 12 sectors, each containing 9 elemental positions, for a total of 108 positions (12 × 9). This provides a geometric container of symmetry within which triadic formation can occur. The ghost positions are not claims of the existence of unidentified atomic elements.

Only 94 naturally occurring elements from Hydrogen to Neptunium are included in the mapped sequence. The remaining fourteen positions are referred to in this framework as “ghost positions.” Their inclusion serves three methodological purposes:

1. **Triadic Completion:** The model is built upon nested triadic structures; role triads and modal triads. A 108-position framework allows each sector to contain three complete internal triads, preserving triadic oscillation without interruption.

2. **Cycle Continuity**
   The spiral is treated as a continuous oscillatory system rather than a linear sequence. Boundary positions mark the transition between the termination of one oscillatory regime and the initiation of the next. These positions function analogously to phase thresholds in dynamical systems.

3. **Relational Symmetry**
   The distribution of the ghost positions at the beginning and end of the mapped sequence establishes symmetry between integration and emergence phases. This corresponds to the Hermetic principle of reflective correspondence (“as above, so below”), interpreted here as structural symmetry between the contraction and expansion phases of the oscillatory cycle.

In symbolic terminology used throughout the paper to describe process transitions:

- The **lower boundary** corresponds to integration and dissolution into the relational field.
- The **upper boundary** corresponds to directional emergence and excitation.

The ghost positions do not represent undiscovered chemical elements. They mark transition thresholds within the oscillatory geometry, potential, enabling the spiral to maintain recursive coherence across cycles.

3.4 Internal Role Triads

Within each nine-element sector, elements are organized into three internal triads:

Table 1: Roles of Alchemical Principles in Triads

Positions	Functional Role
1–3	Sulphur— directional coherence, excitation
4–6	Mercury — mediation, exchange, conductivity
7–9	Salt— embodiment, stabilization

This creates a recurring functional sequence: from direction to exchange to fixation.

This role triad is the primary functional recursion operating within each sector.

3.5 Derivation of the Four Motion-Type Pillars

After sectoral organization, the twelve divisions are grouped according to their associated elemental motion-types:

Table 2: Four Universal Elemental Behaviours

Pillar	Behavioral Description
Fire	Gradient formation, excitation, transmission
Earth	Stabilization, crystallization, structural continuity
Air	Interaction, exchange, signaling, reorganization
Water	Integration, incorporation, embodiment

Each pillar, therefore, contains three sectors, totaling **27** elements per pillar.

These motion-types are interpreted behaviorally and describe how matter operates within a given structural regime.

3.6 Modal Triadic Structuring

Within each pillar, the three sectors correspond to three dynamic phase modalities:

Table 3: Modal Behaviours Within Pillars

Modality	Behavioral Phase
Cardinal	Initiation, directional emergence
Fixed	Transition and mediation

Mutable	Stabilization, coherence

These modalities are interpreted dynamically based on shared language and principles.

3.7 Nested Triadic Architecture

The system contains two foundation interlocking triadic layers within its Zodiac segment:

Table 4: Nested Triadic Architecture

Layer	Function
Role Triad	Sulphur → Mercury → Salt (functional behavior)
Modal Triad	Cardinal → Fixed → Mutable (phase behavior)

This produces a triad-within-triad structure:

- Role triads describe *what* an element does.
- Modal triads describe *how* that function behaves dynamically.

3.8 Cross-Pillar Triadic Alignment

Elements occupying equivalent roles and modal positions across different pillars were explored as cross-pillar triads, corresponding to phase-bridging behaviors between substrate regimes (e.g., structural, interactive, integrative transitions).

3.9 Axial Field Channels

Two perpendicular axes are defined within the spiral:

Table 5: Axial Field Channels

Axis	Behavioral Interpretation
Vertical (N–S)	Expression ↔ Systemic Interaction
Horizontal (E–W)	Organization ↔ Source/transformation

These axes reveal consistent clustering of density, radioactivity, conductivity, and catalytic behavior.

3.9 Substrate Spiral Identification

Radial sequences within the spiral are analyzed as substrate recurrence ladders. These show a progression from: nuclear-dominant states, structural endurance, electronic mediation, bonding/catalysis, life-compatible chemistry.

This spiral is observed to repeat across spiral rings at higher complexity levels.

3.10 Harmonic Recurrence Analysis

Numerical recurrences (3–6–9) are observed as emergent from triadic recursion. These are reported as pattern emergence of triadic formation.

3.11 Spiral Continuity and Phase Cyclicity

The elemental sequence is represented within a 2D spiral geometry for visualization, but the model does not treat the spiral as a linear progression with a fixed beginning or endpoint. Instead, the spiral functions as a phase-continuous oscillatory structure.

In oscillatory systems, phase positions can be entered at any point without altering the underlying periodic structure. Similarly, the triadic role and modal patterns in this model recur structurally across sectors, so the sequence represents a phase-continuous geometry rather than a linear progression with a fixed origin. Although behavioral expression varies by pillar and substrate level, the underlying triadic architecture remains cyclical. This spiral represents cyclical recurrence, relational phase position, and a closed loop pattern instead of linear time and fixed origins.

Summary

The method is defined by:

- preservation of the atomic sequence
- geometric projection
- triadic recursion
- behavioral motion-typing
- substrate spiral analysis

No physical reclassification is proposed; the framework serves as a relational and phenomenological model.

4. Results

Application of the structural framework described in Section 3 produces consistent organizational patterns across elemental positions. These patterns emerge from the imposed constraints and are not assigned independently.

4.1 Sectoral (Zodiacal) Recursion

When the elemental sequence is segmented into twelve nine-position sectors, each sector displays a complete internal role cycle: directional excitation to mediation/exchange to fixation/embodiment

Table 6: Results of Triadic Segmentation

Position	Structural Behavior	Functional Description
1	Directional excitation	Establishes gradient or regime initiation
2	Mediation / circulation	Enables transfer, interaction, and reorganization
3	Fixation / embodiment	Consolidates structure into a stable form

This role recursion appears uniformly across all sectors, demonstrating that triadic functional cycling is a sector-level property, repeating three times per sector within a Zodiac sign.

Examples of this can be seen in Gemini with Magnesium (12) at position 1 as the signal or ignition, aluminum (13) at position 2 as a structural framing that allows for movement, and silicon (14) at position 3 as the pattern structure of memory and information.

This structural pattern is observable independently of symbolic interpretation and reflects a consistent shift from initiation, exchange, and consolidation across chemical behaviors.

4.2 Emergence of Four Motion-Types

When elements are distributed across the twelve sectors, each sector aligns with one of four behavioral motion-types.

Table 7: Emergence of Four Motion Types

Motion-Type	Dominant Material Behavior

Fire	Energy gradient formation, excitation, radiative behavior, and endurance
Earth	Structural endurance, crystallization, density
Air	Interaction, exchange, conductivity, signaling
Water	Integration, catalytic mediation, incorporation

These categories correspond to clusters of recognizable chemical tendencies, including:

- radiative and photonic behaviors
- lattice and density-driven stability
- conductive and communicative properties
- catalytic and life-compatible chemistry

4.3 Modal Phase Differentiation

Within each motion-type, sectors display three distinct dynamic phases:

Table 8: Results of Modal Phase Differentiation

Modality	Observed Behavior
Cardinal	Ignition, direction or emergence of new gradients or structural regimes
Fixed	Circulation, identity maintenance, catalytic exchange, transformation
Mutable	Refinement, distillation, and coherent structural formation

Modal vertical grouping reveals that the same positional roles, i.e., sulphur roles with sulphur, or like with like, behave differently depending on phase states.

Directional roles initiate gradients in Cardinal sectors, maintain coherence in Fixed sectors, and propagate transition in Mutable sectors.

4.4 Cross-Pillar Triads

Elements occupying equivalent roles and modal positions (i.e., across fire, earth, air, water) across different motion-types form cross-pillar triads. These groupings often align with:

- phase transitions between stability and reactivity
- conductivity and catalytic mediation
- structural–interactive–integrative bridging behaviors

These alignments exhibit phase-bridging roles.

4.5 Axial Behavioral Channels

Two perpendicular axes in the spiral reveal consistent clustering.

Table 9: Results Across the Axis of Spiral

Axis	Observed Pattern
Vertical	Dense/stable elements opposite radioactive/unstable ones
Horizontal	Luminous, semiconductive, and signaling elements opposite field-transformative ones

This axis-based distribution corresponds to gradients between fixation and dissolution, and between local expression and systemic consequence.

When the hemispheres of the spiral are explored, the North to South line becomes the transmutation line and the East to West hemisphere becomes the relationship circuit.

4.6 Substrate Spiral

Radial sequences reveal a progressive hierarchy of material capability:

1. Nuclear-dominant, field-influencing elements
2. High-density structural endurance elements
3. Magnetic and electronic mediation elements
4. Bonding and catalytic interface elements

5. Light structural and life-compatible elements

This spiral repeats at higher complexity in outer spiral rings.

4.7 Harmonic Recurrence

Because organization is triadic at multiple scales, numerical recurrences of 3, 6, and 9 appear through reduction and grouping. These are treated as emergent artifacts of structural recursion.

4.8 Summary of Observations

The recurring role sequence, directional–mediating–embodied, does not merely repeat but forms a triadic oscillatory pattern along the spiral projection. Viewed geometrically, the spiral becomes a tessellated field of nested wave phases..

The model yields:

- consistent motion-type clustering
- recursive triadic roles, generating a triadic oscillation
- modal phase structuring
- cross-pillar phase bridges
- axial behavioral gradients
- hierarchical substrate progression

These patterns arise from the imposed geometric triadic constraints rather than independent assignment.

5. Discussion

The structural patterns described in Section 4 invite interpretation. This discussion distinguishes between chemical correspondences, symbolic-philosophical analogues, and heuristic implications.

5.1 Relation to Wave-Based Periodic Cosmologies

Wave-based interpretations of matter organization, such as those proposed by Walter and Lao Russell, describe elemental periodicity as an expression of oscillatory motion cycles. The present framework shows structural resonance with such models in its use of spiral geometry, recursive patterning, and octave-like repetition.

However, the emphasis differs. Wave cosmologies primarily describe the dynamics of motion via compression, expansion, and electric–magnetic interchange. The model presented here examines how oscillatory structuring may manifest as relational differentiation of material capability, including structural endurance, electronic mediation, catalytic behavior, and phase transitions.

Thus, the framework may be understood as complementary in scope: wave cosmologies address the dynamics of motion, while this model maps the emergent organization of matter as a patterned record of those dynamics.

5.2 Chemical Resonances

While the framework does not propose new physical laws, several consistent alignments appear between radial position in the spiral and established chemical regimes. These correspondences reflect clustering of dominant material behaviors rather than a linear developmental sequence.

Table 10: Chemical Resonance Observation

Radial Region of Spiral	Observed Pattern	Chemical Correlation

Inner radial regions	Increased radioactivity and nuclear instability	Transuranic and heavy radioactive elements
Inner–middle regions	Dense structural sectors	High atomic mass metals, refractory and lattice-stable materials
Middle regions	Interface sectors	Transition metals with catalytic, conductive, and alloy behavior
Outer–middle regions	Semiconductive clusters	Metalloids and elements used in electronic mediation
Outer radial regions	Light structural/chemical zones	Light metals, lattice formers, and biologically relevant chemistry

These distributions correspond to what may be described as a substrate spiral: a recurrence of functional structural positions across progressively different dominant chemical regimes. Movement along the spiral correlates with shifts in nuclear stability, electronic structure, and bonding capacity.

The spiral does not represent a linear evolution of matter but a phase-continuous structural geometry in which material capability varies radially while functional roles repeat. The alignment suggests that the spiral captures behavioral clustering across chemical regimes.

Moving inward in the spiral corresponds not to greater biological life but to increasing energetic intensity and transformational potential, while moving outward supports stability, multiplicity, and sustained chemical life.

Importantly, these correspondences are descriptive. The model does not claim causal determination of chemical properties or propose mechanisms beyond established chemical theory.

5.3 Cyclic Boundary Topology

The spiral geometry exhibits a phase-continuous structure in which no absolute beginning or termination can be identified. However, the model reveals two recurring structural boundary conditions at the transition between sectoral cycles. These correspond to shifts in dominant regime behavior rather than temporal start or end points.

One boundary is associated with the emergence of a new structural regime, where directional gradients and motion-domain behaviors are initiated. The complementary boundary corresponds to integrative consolidation, where prior interactions are gathered into coherent form before transitioning into the next recurrence.

These poles may be understood as dual-phase thresholds within the oscillatory topology of the system, and generative emergence from above and below. They function as bidirectional points of regime transition: one emphasizing the establishment of new gradients and the other emphasizing structural integration. Their recurrence across the spiral reinforces the non-linear, cyclic nature of the framework.

5.2 Symbolic Correspondences

The symbolic language used in this framework, alchemical principles, elemental archetypes, and zodiacal segmentation, functions as a relational metaphor and shared language of cosmological correspondences.

Alchemical Triads

The classical alchemical triad (Sulphur, Mercury, Salt) is interpreted here as: excitation and gradient formation, mediation, exchange and conductivity, fixation, embodiment and crystallization.

They parallel the Sulphur–Mercury–Salt role sequence observed in the elemental triads.

Universal Process Language

The alchemical triad and the four elemental motion-types are treated as process archetypes, comparable to phase behavior or dynamical regimes, instead of material correspondence.

5.2.1 Constellational Archetypes as Process Metaphor

The zodiacal segmentation used in the model provides a symbolic vocabulary for describing motion-type behaviors. Historically, constellational archetypes encoded process qualities such as initiation, stabilization, interaction, and integration. These archetypal descriptions create a shared language that parallels observed behavioral clustering within the elemental spiral.

Table 12: Universal Elements Pillar Correspondence

Motion-Type	Archetypal Theme	Parallel Material Behavior
Fire	Emergence, ignition, radiance	Excitation, energy gradients
Earth	Consolidation, endurance	Structural stability, density
Air	Communication, movement	Conductivity, exchange
Water	Integration, transformation	Catalysis, incorporation

Within each motion-type, modal phases (Cardinal, Fixed, Mutable) correspond metaphorically to the following processes.

Table 13: Modal Sign Correspondence to Pillar Zodiac Triads

Modality	Process Phase
Cardinal	Initiation of regime

Fixed	Transition to next regime
Mutable	Stabilization and formation

Constellation archetypes function as symbolic descriptors of process dynamics.

5.2.3 Zodiacal Process Archetypes

The twelve-sector segmentation of the spiral allows comparison between elemental behaviors and the traditional archetypes associated with zodiacal signs. These archetypes historically encode modes of change, stability, interaction, and integration instead of the common personality traits.

Table 14: Zodiac Archetypes and Parallel Chemical Behaviours

Sign	Archetypal Process Theme	Parallel Material Behavior
Aries	Initiation, ignition, emergence of force	Early-stage excitation, gradient formation
Taurus	Consolidation, materialization	Lattice formation, structural stabilization
Gemini	Exchange, signaling, dual mediation	Conductive and interactive chemistry
Cancer	Containment, gestation	Integration, incorporation into stable systems
Leo	Radiance, coherent expression	Energy transmission, catalytic activation

Virgo	Refinement, organization	Selective bonding, structural optimization
Libra	Balance, equilibrium	Phase mediation, interface behavior
Scorpio	Transformation, depth processes	Transmutation, catalytic and magnetic regimes
Sagittarius	Expansion, projection	High-energy gradient behavior
Capricorn	Endurance, compression	Dense, high-stability structural metals
Aquarius	Systemic interaction, field influence	Conductive networks, systemic exchange
Pisces	Dissolution, integration into field	Boundary states, radioactive and transmutative zones

These parallels are interpretive and descriptive. They provide a symbolic vocabulary for understanding recurring behavioral patterns across the spiral without implying causal influence.

5.3 Predictive Heuristics

The model allows for structural predictions at the level of transition regimes.

Boundary Positions — “Ghost Elements”

The fourteen ghost positions serve as markers for:

- transitions between substrate regimes
- thresholds where dominance shifts from one behavioral regime to another
- oscillatory reset points between spiral cycles

These may correspond to zones where instability, rare isotopic behavior, or transitional properties occur.

Such predictions are heuristic: they suggest where transitional behavior might be expected, not the existence of undiscovered chemical species.

5.4 Integrative Perspective

Taken together, the chemical, symbolic, and structural observations suggest that the model operates as a relational mapping system. It does not replace empirical chemistry but offers a way to visualize material organization as:

- recursive
- phase-structured
- oscillatory
- relationally mediated

This allows symbolic and scientific languages to coexist without conflation.

6. Limitations

The framework presented in this paper is intended as a symbolic–structural model for exploring relational patterning in elemental organization. It operates at a phenomenological and conceptual level without revising or replacing established chemical theory.

6.1 Symbolic Language as Interpretive Tool

Terms drawn from alchemy, cosmology, or zodiacal symbolism function as metaphoric descriptors and shared language rather than as physical explanations.

Such language serves as a conceptual bridge for describing:

- stabilization vs. transformation
- mediation vs. excitation
- integration vs. differentiation

These descriptors do not imply that symbolic systems causally determine chemical properties.

6.2 Ghost Positions as Structural Placeholders

The fourteen “ghost” positions are introduced as conceptual boundary markers within the oscillatory structure. They do not represent confirmed or predicted chemical elements. Their role is to indicate transition zones between behavioral regimes in the model’s geometry.

6.3 Correlation Does Not Imply Mechanism

Observed alignments between spiral positioning, chemical behaviour, and symbolic archetypes are correlations within a structural mapping system. The framework does not assert causal mechanisms linking these domains.

6.4 Scope of Applicability

This model is most appropriately understood as a visualization tool, a relational mapping system of correspondence, and a philosophical and phenomenological framework.

It may assist in conceptual integration but is not intended as a predictive instrument for experimental chemistry.

6.5 Epistemological Position

The work occupies a boundary between symbolic cosmology and scientific description. Its purpose is exploratory and integrative rather than empirical or mechanistic.

6.6 Summary of Limits

The framework should be read as a structured analogy between harmonic cosmology and material behavior, not a physical theory of matter.

7. Conclusion

This paper has presented a triadic oscillation framework for organizing elemental matter within a relational cosmology. By preserving atomic order while projecting the elemental sequence into a spiral geometry, the model reveals recurring triadic structures, modal phase differentiation, and a hierarchical substrate spiral.

At the philosophical level, the framework proposes that formation arises not from binary opposition but from triadic vectors of magnitude, direction, and relational fields with generative fields from above and below. This stance aligns with alchemical process logic and wave-based cosmological metaphors while remaining distinct from empirical physical theory.

At the structural level, the model demonstrates:

- recursive role cycling (directional, mediating, embodied)
- modal phase structuring (initiation, stabilization, transition)
- cross-pillar phase bridges between motion-types
- axial gradients corresponding to stabilization, dissolution, expression, and systemic interaction
- a substrate spiral describing progressive emergence of material capability

These findings suggest that elemental organization can be interpreted as a relational mapping of behavioral regimes and through the lens of alchemical correspondence. Chemical tendencies such as stability, radioactivity, conductivity, catalysis, and density cluster in ways that resonate with the model's geometric structure.

Symbolic systems, including alchemical triads, elemental motion-types, and zodiacal archetypes, provide a conceptual vocabulary for describing these relational patterns.

The framework's purpose is integrative. It offers a way to visualize matter as: recursive, oscillatory, phase-structured and relationally mediated.

This perspective may assist in conceptual synthesis across philosophical, symbolic, and material domains without displacing established chemical knowledge.

Future exploration may refine the geometric mapping, investigate additional behavioral correlations, or develop visualization tools that clarify substrate transitions and triadic phase dynamics. Any such development remains within the model's scope as a structural analogy.

In summary, the triadic oscillation framework proposes that elemental organization can be understood as the patterned record of motion stabilized within a relational field — a view that bridges symbolic cosmology and material behavior while maintaining clear boundaries between analogy and empirical science.

References

Domínguez, I. (1995). *The Four Elements of the Wise.* Weiser Books.

Grant, R. E. (2020). *Philomath: The Path to Self-Knowledge.* Aeon Rising Publishing.

Grant, R. E. (2023). *Codex Universalis Principia Mathematica: A Trilogy of Harmonic Realization* (Vol. III). Aeon Rising Publishing.

Hall, M. P. (1928). *The Secret Teachings of All Ages.*

Russell, W. (1971). *The Message of the Divine Iliad.* The University of Science and Philosophy.

Russell, W. (1926). *The Universal One.*The University of Science and Philosophy.

Scerri, E. R. (2007). *The Periodic Table: Its Story and Its Significance.* Oxford University Press.

Tesla, N. (n.d.). Lectures, patents, and writings on vibration, resonance, and frequency principles.

Appendices

Appendix A - Full Elemental Sector

This table organizes the 94 natural periodic elements with 14 bridge positions into their triadic positions, alchemical role, modality and universal element pillar. Triads form positions 1-3, 4-6, 7-0; between sulphur, mercury, salt; between cardinal (9), fixed (9), mutable (9) groups within a pillar, between the same position within an element and across the same position across pillars with different behaviours.

Zodiac	Position	Element	Atomic #	Role (Sulphur/Mercury/Salt)	Modality (Cardinal/Fixed/Mutable)	Pillar (Fire/Earth/Air/Water)
Aries	1	Ghost Element	-6	Sulphur	Cardinal	Fire
Aries	2	Ghost Element	-5	Mercury	Cardinal	Fire
Aries	3	Ghost Element	-4	Salt	Cardinal	Fire
Aries	4	Ghost Element	-3	Sulphur	Cardinal	Fire
Aries	5	Ghost Element	-2	Mercury	Cardinal	Fire
Aries	6	Ghost Element	-1	Salt	Cardinal	Fire
Aries	7	Ghost Element	0	Sulphur	Cardinal	Fire
Aries	8	Hydrogen	1	Mercury	Cardinal	Fire
Aries	9	Helium	2	Salt	Cardinal	Fire
Taurus	1	Lithium	3	Sulphur	Fixed	Earth
Taurus	2	Beryllium	4	Mercury	Fixed	Earth
Taurus	3	Boron	5	Salt	Fixed	Earth
Taurus	4	Carbon	6	Sulphur	Fixed	Earth
Taurus	5	Nitrogen	7	Mercury	Fixed	Earth
Taurus	6	Oxygen	8	Salt	Fixed	Earth
Taurus	7	Fluorine	9	Sulphur	Fixed	Earth
Taurus	8	Neon	10	Mercury	Fixed	Earth
Taurus	9	Sodium	11	Salt	Fixed	Earth
Gemini	1	Magnesium	12	Sulphur	Mutable	Air
Gemini	2	Aluminum	13	Mercury	Mutable	Air
Gemini	3	Silicon	14	Salt	Mutable	Air

Gemini	4	Phosphorus	15	Sulphur	Mutable	Air
Gemini	5	Sulfur	16	Mercury	Mutable	Air
Gemini	6	Chlorine	17	Salt	Mutable	Air
Gemini	7	Argon	18	Sulphur	Mutable	Air
Gemini	8	Potassium	19	Mercury	Mutable	Air
Gemini	9	Calcium	20	Salt	Mutable	Air
Cancer	1	Scandium	21	Sulphur	Cardinal	Water
Cancer	2	Titanium	22	Mercury	Cardinal	Water
Cancer	3	Vanadium	23	Salt	Cardinal	Water
Cancer	4	Chromium	24	Sulphur	Cardinal	Water
Cancer	5	Manganese	25	Mercury	Cardinal	Water
Cancer	6	Iron	26	Salt	Cardinal	Water
Cancer	7	Cobalt	27	Sulphur	Cardinal	Water
Cancer	8	Nickel	28	Mercury	Cardinal	Water
Cancer	9	Copper	29	Salt	Cardinal	Water
Leo	1	Zinc	30	Sulphur	Fixed	Fire
Leo	2	Gallium	31	Mercury	Fixed	Fire
Leo	3	Germanium	32	Salt	Fixed	Fire
Leo	4	Arsenic	33	Sulphur	Fixed	Fire
Leo	5	Selenium	34	Mercury	Fixed	Fire
Leo	6	Bromine	35	Salt	Fixed	Fire
Leo	7	Krypton	36	Sulphur	Fixed	Fire
Leo	8	Rubidium	37	Mercury	Fixed	Fire
Leo	9	Strontium	38	Salt	Fixed	Fire
Virgo	1	Yttrium	39	Sulphur	Mutable	Earth
Virgo	2	Zirconium	40	Mercury	Mutable	Earth
Virgo	3	Niobium	41	Salt	Mutable	Earth
Virgo	4	Molybdenum	42	Sulphur	Mutable	Earth
Virgo	5	Technetium	43	Mercury	Mutable	Earth
Virgo	6	Ruthenium	44	Salt	Mutable	Earth
Virgo	7	Rhodium	45	Sulphur	Mutable	Earth
Virgo	8	Palladium	46	Mercury	Mutable	Earth
Virgo	9	Salt	47	Salt	Mutable	Earth
Libra	1	Cadmium	48	Sulphur	Cardinal	Air
Libra	2	Indium	49	Mercury	Cardinal	Air

Libra	3	Tin	50	Salt	Cardinal	Air
Libra	4	Antimony	51	Sulphur	Cardinal	Air
Libra	5	Tellurium	52	Mercury	Cardinal	Air
Libra	6	Iodine	53	Salt	Cardinal	Air
Libra	7	Xenon	54	Sulphur	Cardinal	Air
Libra	8	Cesium	55	Mercury	Cardinal	Air
Libra	9	Barium	56	Salt	Cardinal	Air
Scorpio	1	Lanthanum	57	Sulphur	Fixed	Water
Scorpio	2	Cerium	58	Mercury	Fixed	Water
Scorpio	3	Praseodymium	59	Salt	Fixed	Water
Scorpio	4	Neodymium	60	Sulphur	Fixed	Water
Scorpio	5	Promethium	61	Mercury	Fixed	Water
Scorpio	6	Samarium	62	Salt	Fixed	Water
Scorpio	7	Europium	63	Sulphur	Fixed	Water
Scorpio	8	Gadolinium	64	Mercury	Fixed	Water
Scorpio	9	Terbium	65	Salt	Fixed	Water
Sagittarius	1	Dysprosium	66	Sulphur	Mutable	Fire
Sagittarius	2	Holmium	67	Mercury	Mutable	Fire
Sagittarius	3	Erbium	68	Salt	Mutable	Fire
Sagittarius	4	Thulium	69	Sulphur	Mutable	Fire
Sagittarius	5	Ytterbium	70	Mercury	Mutable	Fire
Sagittarius	6	Lutetium	71	Salt	Mutable	Fire
Sagittarius	7	Hafnium	72	Sulphur	Mutable	Fire
Sagittarius	8	Tantalum	73	Mercury	Mutable	Fire
Sagittarius	9	Tungsten	74	Salt	Mutable	Fire
Capricorn	1	Rhenium	75	Sulphur	Cardinal	Earth
Capricorn	2	Osmium	76	Mercury	Cardinal	Earth
Capricorn	3	Iridium	77	Salt	Cardinal	Earth
Capricorn	4	Platinum	78	Sulphur	Cardinal	Earth
Capricorn	5	Sulphur	79	Mercury	Cardinal	Earth
Capricorn	6	Mercury	80	Salt	Cardinal	Earth
Capricorn	7	Thallium	81	Sulphur	Cardinal	Earth
Capricorn	8	Lead	82	Mercury	Cardinal	Earth
Capricorn	9	Bismuth	83	Salt	Cardinal	Earth
Aquarius	1	Polonium	84	Sulphur	Fixed	Air

Aquarius	2	Astatine	85	Mercury	Fixed	Air
Aquarius	3	Radon	86	Salt	Fixed	Air
Aquarius	4	Francium	87	Sulphur	Fixed	Air
Aquarius	5	Radium	88	Mercury	Fixed	Air
Aquarius	6	Actinium	89	Salt	Fixed	Air
Aquarius	7	Thorium	90	Sulphur	Fixed	Air
Aquarius	8	Protactinium	91	Mercury	Fixed	Air
Aquarius	9	Uranium	92	Salt	Fixed	Air
Pisces	1	Neptunium	93	Sulphur	Mutable	Water
Pisces	2	Plutonium	94	Mercury	Mutable	Water
Pisces	3	Ghost 8	95	Salt	Mutable	Water
Pisces	4	Ghost 9	96	Sulphur	Mutable	Water
Pisces	5	Ghost 10	97	Mercury	Mutable	Water
Pisces	6	Ghost 11	98	Salt	Mutable	Water
Pisces	7	Ghost 12	99	Sulphur	Mutable	Water
Pisces	8	Ghost 13	100	Mercury	Mutable	Water
Pisces	9	Ghost 14	101	Salt	Mutable	Water

Appendix B - Elemental Pillars

B.1 Table of Fire Pillar

Elements divided into their universal elemental category

Zodiac	Position	Element	Atomic #	Role (Sulphur/Mercury/Salt)	Modality (Cardinal/Fixed/ Mutable)
Aries	1	Ghost 7	-6	Sulphur	Cardinal
Aries	2	Ghost 6	-5	Mercury	Cardinal
Aries	3	Ghost 5	-4	Salt	Cardinal
Aries	4	Ghost 4	-3	Sulphur	Cardinal
Aries	5	Ghost 3	-2	Mercury	Cardinal
Aries	6	Ghost 2	-1	Salt	Cardinal
Aries	**7**	Ghost 1	**0**	Sulphur	Cardinal
Aries	8	Hydrogen	1	Mercury	Cardinal
Aries	9	Helium	2	Salt	Cardinal
Leo	1	Zinc	30	Sulphur	Fixed
Leo	2	Gallium	31	Mercury	Fixed
Leo	3	Germanium	32	Salt	Fixed
Leo	4	Arsenic	33	Sulphur	Fixed
Leo	5	Selenium	34	Mercury	Fixed
Leo	6	Bromine	35	Salt	Fixed
Leo	**7**	Krypton	36	Sulphur	Fixed
Leo	8	Rubidium	37	Mercury	Fixed
Leo	9	Strontium	38	Salt	Fixed
Sagittarius	1	Dysprosium	66	Sulphur	Mutable
Sagittarius	2	Holmium	67	Mercury	Mutable
Sagittarius	3	Erbium	68	Salt	Mutable
Sagittarius	4	Thulium	69	Sulphur	Mutable
Sagittarius	5	Ytterbium	70	Mercury	Mutable
Sagittarius	6	Lutetium	71	Salt	Mutable
Sagittarius	**7**	Hafnium	72	Sulphur	Mutable
Sagittarius	8	Tantalum	73	Mercury	Mutable
Sagittarius	9	Tungsten	74	Salt	Mutable

Appendix B.2 Table of Earth Pillar

Zodiac	Position	Element	Atomic #	Role (Sulphur/Mercury/Salt)	Modality (Cardinal/Fixed/Mutable)
Capricorn	1	Rhenium	75	Sulphur	Cardinal
Capricorn	2	Osmium	76	Mercury	Cardinal
Capricorn	3	Iridium	77	Salt	Cardinal
Capricorn	4	Platinum	78	Sulphur	Cardinal
Capricorn	5	Sulphur	79	Mercury	Cardinal
Capricorn	6	Mercury	80	Salt	Cardinal
Capricorn	7	Thallium	81	Sulphur	Cardinal
Capricorn	8	Lead	82	Mercury	Cardinal
Capricorn	9	Bismuth	83	Salt	Cardinal
Taurus	1	Lithium	3	Sulphur	Fixed
Taurus	2	Beryllium	4	Mercury	Fixed
Taurus	3	Boron	5	Salt	Fixed
Taurus	4	Carbon	6	Sulphur	Fixed
Taurus	5	Nitrogen	7	Mercury	Fixed
Taurus	6	Oxygen	8	Salt	Fixed
Taurus	7	Fluorine	9	Sulphur	Fixed
Taurus	8	Neon	10	Mercury	Fixed
Taurus	9	Sodium	11	Salt	Fixed
Virgo	1	Yttrium	39	Sulphur	Mutable
Virgo	2	Zirconium	40	Mercury	Mutable
Virgo	3	Niobium	41	Salt	Mutable
Virgo	4	Molybdenum	42	Sulphur	Mutable
Virgo	5	Technetium	43	Mercury	Mutable
Virgo	6	Ruthenium	44	Salt	Mutable
Virgo	7	Rhodium	45	Sulphur	Mutable
Virgo	8	Palladium	46	Mercury	Mutable
Virgo	9	Salt	47	Salt	Mutable

Appendix B.3 Air Pillar Table

Zodiac	Position	Element	Atomic #	Role (Sulphur/Mercury/Salt)	Modality (Cardinal/Fixed/Mutable)
Libra	1	Cadmium	48	Sulphur	Cardinal
Libra	2	Indium	49	Mercury	Cardinal
Libra	3	Tin	50	Salt	Cardinal
Libra	4	Antimony	51	Sulphur	Cardinal
Libra	5	Tellurium	52	Mercury	Cardinal
Libra	6	Iodine	53	Salt	Cardinal
Libra	7	Xenon	54	Sulphur	Cardinal
Libra	8	Cesium	55	Mercury	Cardinal
Libra	9	Barium	56	Salt	Cardinal
Aquarius	1	Polonium	84	Sulphur	Fixed
Aquarius	2	Astatine	85	Mercury	Fixed
Aquarius	3	Radon	86	Salt	Fixed
Aquarius	4	Francium	87	Sulphur	Fixed
Aquarius	5	Radium	88	Mercury	Fixed
Aquarius	6	Actinium	89	Salt	Fixed
Aquarius	7	Thorium	90	Sulphur	Fixed
Aquarius	8	Protactinium	91	Mercury	Fixed
Aquarius	9	Uranium	92	Salt	Fixed
Gemini	1	Magnesium	12	Sulphur	Mutable
Gemini	2	Aluminum	13	Mercury	Mutable
Gemini	3	Silicon	14	Salt	Mutable
Gemini	4	Phosphorus	15	Sulphur	Mutable
Gemini	5	Sulfur	16	Mercury	Mutable
Gemini	6	Chlorine	17	Salt	Mutable
Gemini	7	Argon	18	Sulphur	Mutable
Gemini	8	Potassium	19	Mercury	Mutable
Gemini	9	Calcium	20	Salt	Mutable

Appendix B.3 Water Pillar Table

Zodiac	Position	Element	Atomic #	Role (Sulphur/Mercury/Salt)	Modality (Cardinal/Fixed/Mutable)
Cancer	1	Scandium	21	Sulphur	Cardinal
Cancer	2	Titanium	22	Mercury	Cardinal
Cancer	3	Vanadium	23	Salt	Cardinal
Cancer	4	Chromium	24	Sulphur	Cardinal
Cancer	5	Manganese	25	Mercury	Cardinal
Cancer	6	Iron	26	Salt	Cardinal
Cancer	7	Cobalt	27	Sulphur	Cardinal
Cancer	8	Nickel	28	Mercury	Cardinal
Cancer	9	Copper	29	Salt	Cardinal
Scorpio	1	Lanthanum	57	Sulphur	Fixed
Scorpio	2	Cerium	58	Mercury	Fixed
Scorpio	3	Praseodymium	59	Salt	Fixed
Scorpio	4	Neodymium	60	Sulphur	Fixed
Scorpio	5	Promethium	61	Mercury	Fixed
Scorpio	6	Samarium	62	Salt	Fixed
Scorpio	7	Europium	63	Sulphur	Fixed
Scorpio	8	Gadolinium	64	Mercury	Fixed
Scorpio	9	Terbium	65	Salt	Fixed
Pisces	1	Neptunium	93	Sulphur	Mutable
Pisces	2	Plutonium	94	Mercury	Mutable
Pisces	3	Ghost 8	95	Salt	Mutable
Pisces	4	Ghost 9	96	Sulphur	Mutable
Pisces	5	Ghost 10	97	Mercury	Mutable
Pisces	6	Ghost 11	98	Salt	Mutable
Pisces	7	Ghost 12	99	Sulphur	Mutable
Pisces	8	Ghost 13	100	Mercury	Mutable
Pisces	9	Ghost 14	101	Salt	Mutable

Appendix C

Master Table — Triadic Oscillation / Tessellation Logic

Formation Level	What Combines	Structural Description	Resulting Triad Type
Internal Sector Triad	Positions 1–2–3 (Sulphur–Mercury–Salt)	Three consecutive positions within a single sector	Functional triad (local oscillation)
Modal Triad	Cardinal–Fixed–Mutable sectors within a pillar	Same role position across three sectors in one pillar	Phase triad (dynamic cycle)
Pillar Triad	Fire–Earth–Air–Water of same role & modality	Same position across motion-types	Motion-domain triad (behavioral bridge)
Cross-Role Triad	Sulphur–Mercury–Salt of same sector	Role cycle within sector	Role-function triad
Radial Spiral Triad	Same position across spiral rings	Same functional point at different substrate levels	Substrate triad (capability gradient)

Note: Triads in the model form at multiple structural scales, creating a nested oscillatory tessellation across functional, modal, motion-type, and substrate dimensions

Appendix D

Triadic Phase Reference

Layer	Positin	Functional Role	Alchemic analogue	Wave Phase	Modal Phase	Pillar Behavior	Substrate Direction
Role Cycle	1	Directional excitation	Sulphur / Gold	Rising phase / gradient formation	Cardinal (initiation)	Begins regime behavior	Moves toward structural expression
Role Cycle	2	Mediation / exchange	Mercury	Oscillation midpoint / transfer	Fixed (stabilization)	Sustains regime coherence	Enables interaction & translation
Role Cycle	3	Embodiment / fixation	Salt / Silver	Stabilization phase / trough	Mutable (transition)	Releases regime into transition	Moves toward integration/dissolution

Appendix E

Axial Interpretation Key

The spiral diagram contains two orthogonal axes representing structural gradients in material behavior.

Axis	Direction	Structural Gradient	Behavioral Interpretation
Vertical Axis (Blue)	Inner → Outer	**Energy density → Structural fixation**	Movement from nuclear-dominant states toward stable structural and bonding regimes
	Outer → Inner	**Fixation → Energetic compression**	Increasing nuclear influence and instability
Horizontal Axis (Red)	Left → Right	**Integration → Expression**	Increasing interaction with chemical bonding, molecular formation, and life-compatible chemistry
	Right → Left	**Localized behavior → Systemic integration**	Movement toward heavier, less interactive, and more self-contained atomic behavior

Note: The axes describe orthogonal gradients of structural behavior rather than physical forces, allowing elements to be located within a relational field of energetic density and chemical expressivity.

Appendix F

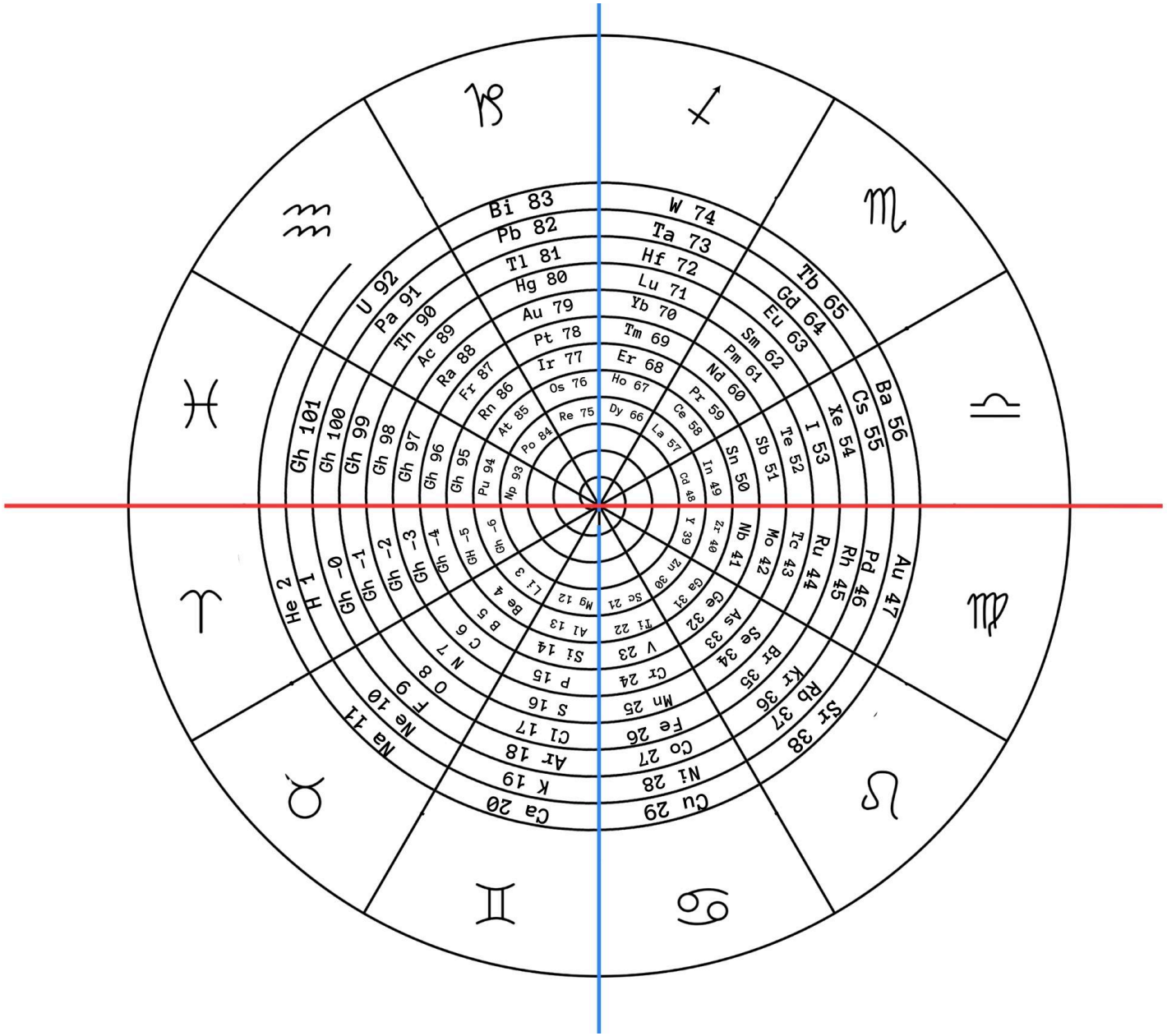
Spiral Substrate Progression Key

The spiral represents a **substrate spiral** — a progression of dominant material regimes as atomic number increases or decreases radially.

Spiral Zone	Dominant Regime	Material Behavior
Innermost Rings	Nuclear-dominant	Radioactivity, instability, short-lived isotopes
Inner-Middle Rings	Structural metals	High density, lattice formation, structural endurance
Middle Rings	Electronic mediation	Catalytic behavior, conductivity, transitional metals
Outer-Middle Rings	Bonding chemistry	Nonmetals, metalloids, valence-driven interactions
Outer Rings	Life-compatible regimes	Light elements capable of complex molecular formation

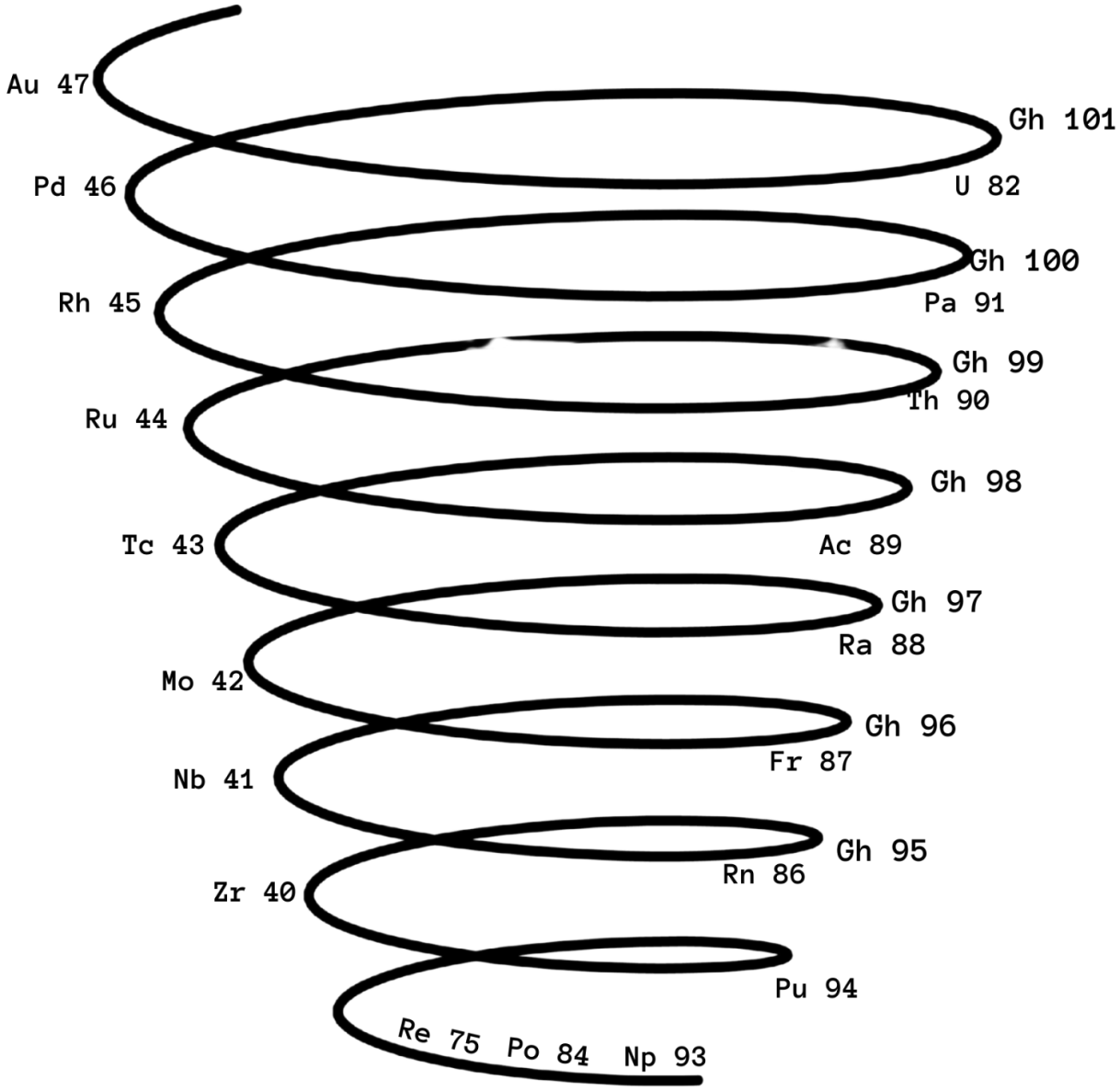
The spiral illustrates a substrate spiral in which recurring triadic roles appear across progressively different material regimes, structured by orthogonal gradients of energetic density and chemical expressivity.

Appendix G — Substrate Spira



Appendix H - Substrate Spiral Visualization

This is a visualization aid of the substrate spiral, highlighting the Pisces, Aquarius and Virgo sectors.



Appendix I

9-ring progression chart (−9 recurrence)

Ring	Start	Sequence (−9 steps outward along that ring)
R1	93 (Np)	**93 Np** → 84 Po → 75 Re → 66 Dy → 57 La → 48 Cd → 39 Y → 30 Zn → 21 Sc → 12 Mg → 3 Li → **G−6 (flows to next ring)**
R2	94 (Pu)	**94 Pu** → 85 At → 76 Os → 67 Ho → 58 Ce → 49 In → 40 Zr → 31 Ga → 22 Ti → 13 Al → 4 Be → **G−5 (flows to next ring)**
R3	G(95)	**G95** → 86 Rn → 77 Ir → 68 Er → 59 Pr → 50 Sn → 41 Nb → 32 Ge → 23 V → 14 Si → 5 B → **G−4 (flows to next ring)**
R4	G(96)	**G96** → 87 Fr → 78 Pt → 69 Tm → 60 Nd → 51 Sb → 42 Mo → 33 As → 24 Cr → 15 P → 6 C → **G−3 (flows to next ring)**
R5	G(97)	**G97** → 88 Ra → 79 Au → 70 Yb → 61 Pm → 52 Te → 43 Tc → 34 Se → 25 Mn → 16 S → 7 N → **G−2 (flows to next ring)**
R6	G(98)	**G98** → 89 Ac → 80 Hg → 71 Lu → 62 Sm → 53 I → 44 Ru → 35 Br → 26 Fe → 17 Cl → 8 O → **G−1 (flows to next ring)**
R7	G(99)	**G99** → 90 Th → 81 Tl → 72 Hf → 63 Eu → 54 Xe → 45 Rh → 36 Kr → 27 Co → 18 Ar → 9 F → **G0 (flows to next ring)**
R8	G(100)	**G100** → 91 Pa → 82 Pb → 73 Ta → 64 Gd → 55 Cs → 46 Pd → 37 Rb → 28 Ni → 19 K → 10 Ne → **(flows to next ring)**
R9	G(101)	**G101** → 92 U → 83 Bi → 74 W → 65 Tb → 56 Ba → 47 Ag → 38 Sr → 29 Cu → 20 Ca → 11 Na → 2 He → **(boundary, return)**

Appendix J

Model Constraints and Assumptions

Clarifies methodological limits, including preservation of atomic order, symbolic role interpretation, and the non-mechanistic nature of the framework.

Constraint	Description
Atomic order preserved	Elements remain in standard atomic sequence
No new chemical claims	Model is relational/phenomenological
Triadic roles are functional	Not physical forces
Modalities describe behavior	Not astrological determinism
Ghost positions are placeholders	Represent boundary thresholds

Appendix K

Terminology Key

Term	Meaning in Model
Sulphur	Directional excitation function
Mercury	Mediation/transfer function
Salt	Stabilization/embodiment function
Pillar	Behavioral motion domain within the one of the four elements
Substrate	Dominant material regime
Spiral	Layered wave progression of capability