

# From Unity to the Periodic Table

## A Generative Geometric Construction

*Complex Phase Pulsation, Storage Dimensions, and the Equidistance Origin of  $2n^2$*   
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### Abstract

This paper presents a generative geometric construction that derives the shell occupation structure of the periodic table from a small set of structural primitives. The construction proceeds deductively from a single starting point — *Unity* — through its splitting into two extreme poles (denoted ALL and NOTHING) with a Neutral point at their midpoint, forming a *Trinity*. Two directed movements between the poles, *Red* (ALL→NOTHING) and *Green* (NOTHING→ALL), establish the primary axis; their encounter at the Neutral point generates a second, perpendicular axis with two secondary extremes (*Yellow* and *Blue*). The resulting two-dimensional pulsation field has a built-in asymmetry: the primary axis is real, the secondary axis imaginary. From the storage requirement imposed by rotational degrees of freedom of this complex 2D field, a third axis emerges — not as an independent spatial dimension, but as a *storage axis*. The tetrahedron, whose four congruent faces correspond to the four phases, is the geometric form that holds all rotational positions of the basic triangle simultaneously. Its complex conjugate exists automatically as a mirror tetrahedron; together they form the Merkaba structure, distinguished only by their storage mode (white = visible, black = complementary). Within this framework, the Heisenberg uncertainty relation acquires a structural interpretation as the exclusivity of these two storage modes. Applying an equidistance principle to overtone subdivision of the standing wave between the poles, the construction generates atomic shell capacities of exactly  $2n^2$  — reproducing the periodic table sequence 2; 8, 8; 18, 18; 32, 32 without recourse to quantum-mechanical assumptions. The construction is offered as a structural framework for further research, with explicit entry points where mathematical formalization could engage.

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## 1. Introduction

The shell capacities of the periodic table follow the rule  $2n^2$ , yielding 2, 8, 18, 32, 50 for shells  $n = 1, 2, 3, 4, 5$ . With the seven actually occupied periods displayed as the doubled-pair sequence 2; 8, 8; 18, 18; 32, 32, this pattern has been the foundation of atomic chemistry since the development of quantum mechanics in the 1920s. Its standard derivation proceeds via angular momentum quantization ( $l = 0, 1, \dots, n-1$ ), the magnetic quantum number's  $2l+1$  orientations, and the factor of 2 for electron spin, summing to  $2n^2$  per shell. This derivation is not in dispute.

This paper poses a different question. Suppose one were to seek a *generative geometric construction* that produces the same shell structure — not by starting from the Schrödinger equation, but from a small set of structural primitives concerning standing waves, polarity, and the geometric requirement of equidistance. Would such a construction be possible? If it were, what would it indicate about the structural relationship between atomic shell structure and other phenomena that quantum mechanics also accommodates — holographic encoding, antimatter via charge conjugation, and the Heisenberg uncertainty relation?

The construction documented here arose through independent research by Josef Krische, developed in a sequence of structured sparring sessions in which the construction was built blind from its principles and then tested against empirical chemistry. An earlier formulation, using a filter that rejected odd partials of the overtone series, produced a power-of-two ladder (2, 8, 16, 32, 64) that disagreed with the empirical  $2n^2$  sequence. That earlier formulation was documented in a separate working paper (*Construction or Correspondence*, May 2026) as a negative finding: the form held (period pairs) but the values did not. The present paper reports the subsequent resolution of that disagreement through a different principle — *equidistance* applied to the full overtone series without prior filtering — together with a broader structural framework that emerged in the same session.

The paper is intended for researchers who may wish to engage with specific elements of the construction. Section 2 sets out the foundational construction from Unity to the four phases. Section 3 introduces the complex character of the two-dimensional phase plane and the storage interpretation of the third axis. Section 4 develops the pyramid as a holographic representation and the automatic emergence of the mirror pyramid through complex conjugation, yielding the Merkaba structure. Section 5 reads the Heisenberg uncertainty relation as a structural consequence of the two storage modes. Section 6 presents the equidistance derivation of  $2n^2$  as the central quantitative result. Section 7 considers methodological status. Section 8 identifies open questions and entry points where the construction would benefit from formal mathematical development or empirical engagement.

The construction is offered as a structural framework, not as a derivation in the formal physical sense. Its purpose is not to replace the quantum-mechanical treatment of atomic structure but to provide an alternative deductive chain in which the same numerical structure appears, together with bridges to phenomena that are otherwise treated separately. The status of these bridges — whether structural similarity or deeper identity — is left as an open question for further research.

## 2. The Foundational Construction

### 2.1 Unity, Splitting, and the Trinity

The construction begins with a single primitive: *Unity*. Through its splitting, two extreme poles emerge — the ALL and the NOTHING. The location at which Unity previously stood remains as the Neutral point, the midpoint between the two new poles. The configuration is thus a *Trinity*: ALL, Neutral, NOTHING, arranged on a single axis. The Neutral point is not a separate primitive; it is the residue of Unity after the split, and it plays a recurring structural role throughout the construction as the point at which all later stages intersect.

## 2.2 Two Primary Movements: Red and Green

Once Unity has split, a movement between the poles becomes possible. Two directed movements arise. The first proceeds from ALL toward NOTHING; it is interpreted structurally as a *seeking* movement (the search for the wholeness that was lost in the splitting), and is designated as the masculine impulse. This is *Red*. The second proceeds from NOTHING toward ALL; it begins with the appearance of something where there had been nothing, and is interpreted as a *multiplying* or accumulating movement, designated as the feminine impulse. This is *Green*.

A structural clarification is important here: the colors and the gendered characterizations attach to the *movements*, not to the poles themselves. The poles ALL and NOTHING remain neutral in this respect — they are positions, not properties. Only the direction of motion between them carries a characterization.

## 2.3 The Encounter at the Neutral Point and the Emergence of Yellow and Blue

When the two primary movements run simultaneously — Red from ALL toward NOTHING, and Green from NOTHING toward ALL — they meet at the Neutral point. From this encounter, a second axis emerges, perpendicular to the first. Two new extremes are located on this second axis. These are not direct consequences of Unity itself but emerge one stage later: as a *mixture* of the two primary movements, with their characteristic signs inverted.

On the positive (upward) position of the new axis is *Yellow* — the building principle, which consolidates what is already present and forms substance. On the negative (downward) position is *Blue* — the dissolving principle, which separates what is in excess. Yellow and Blue together constitute the second axis. They are not Rückläufe (returns) of the primary movements in the previous formulation's sense; they are emergent extremes generated by the encounter event itself.

## 2.4 The Four Phases as a Tiered Structure

The four phases — Red, Green, Yellow, Blue — do not form four equivalent starting points but a *tiered structure*. Red and Green are primary: they are the direct movements between the poles, carried by the splitting of Unity. Yellow and Blue are secondary: they emerge from the meeting of the primary movements. Yet all four are not independent of one another. Without Red and Green there is no encounter event, hence no Yellow and Blue; without Yellow and Blue, the motion between ALL and NOTHING remains simple oscillation rather than becoming the generative motor of further structure. The four phases are *entangled* — a property that will become more sharply visible in geometric and mathematical form in the next section.

# 3. The Complex Phase Plane and the Storage Axis

## 3.1 The Two-Dimensional Pulsation as a Complex Plane

The four phases together form a flat, pulsating field on two perpendicular axes. This field possesses a structural asymmetry that follows directly from the origin of each axis. The Red-Green axis carries the direct movement between the poles; it is the *real* axis. The Yellow-Blue axis carries a different content — a mixed configuration with inverted signs, generated by the encounter event rather than by direct splitting. In structural terms, it is *imaginary*.

The two-dimensional phase field is therefore a complex plane:  $x$  real,  $y$  imaginary. The two axes are not equivalent because their origins are not equivalent. Mathematically, points in this field are complex numbers  $z = x + iy$ . The construction asserts that the actual pulsation of the four phases takes place in this complex plane, in two dimensions — not in three.

### 3.2 Rotation and the Storage Requirement

The two-dimensional pulsation field can rotate. When it does, its new orientation cannot be represented within the original  $x$ - $y$  description without information loss: the rotated state contains information that the static  $x$ - $y$  coordinate system cannot encode. For the system to retain and carry forward its rotational state, an additional axis is required — one onto which the new orientation can be recorded as independent information.

This additional axis is the  $z$ -axis. In the construction's terminology,  $z$  is not a third spatial dimension on equal footing with  $x$  and  $y$ . It is a *storage axis*: it exists because the system needs to record its own rotation, not because space is intrinsically three-dimensional. Standard physics treats  $x$ ,  $y$ ,  $z$  as equivalent; this construction treats  $z$  as a consequence axis derived from the storage requirement of a fundamentally two-dimensional pulsation.

### 3.3 Connection to the Holographic Principle

This interpretation of the third axis as a storage dimension establishes a structural connection to the holographic principle. In standard formulations of the holographic principle, three-dimensional information is encoded on a two-dimensional boundary surface. The present construction proceeds in the opposite direction: three-dimensional space appears as the recording format required by a fundamentally two-dimensional pulsation. The two views are structurally complementary, and the construction places the holographic relationship at the level of its own deductive chain rather than as an externally imposed principle.

## 4. The Pyramid, the Mirror Pyramid, and the Merkaba

### 4.1 The Pyramid as Holographic Representation

If the  $z$ -axis arises from the storage requirement, then the geometric form that is unfolded into three dimensions has a specific purpose: it must contain *all possible orientations* of the basic two-dimensional triangle simultaneously. This form is the regular tetrahedron.

The tetrahedron has four congruent triangular faces. Each face is the same triangle in a different spatial orientation. Four faces, four orientations — corresponding to the four phases. Each phase represents one specific orientation of the basic triangle in the two-dimensional plane, and the tetrahedron is the geometric object that holds all four together. It is the simplest closed three-dimensional form that can serve this purpose: fewer than four faces yield no closed body, and more are not required because the pulsation field is fixed at four phases.

The hierarchy of dimensional emergence is thereby completed: a line arises from the first movement, a plane from the encounter of the two movements, and a body from the storage

requirement for rotational states of that plane. Three dimensions emerge from a single splitting of Unity.

## 4.2 The Mirror Pyramid from Complex Conjugation

Once the two-dimensional phase plane is recognized as a complex plane, a structural consequence follows that does not require additional construction. Every complex configuration possesses a complex conjugate: for  $z = x + iy$ , the conjugate is  $\bar{z} = x - iy$ . The mirror image of the first pyramid — obtained by inverting the imaginary component — therefore exists automatically with it. The second pyramid is not an additional, arbitrarily added step in the construction; it is the geometric expression of the mathematical conjugate that the complex character of the plane forces into existence.

The two pyramids are inverted relative to one another. Where the upper points upward, the lower points downward. Both meet at the Neutral point — the only location in the construction that is common to every stage from the original splitting onward. Here the two-dimensional pulsation crosses itself, the z-axis passes through, and the two pyramid apices touch.

## 4.3 White and Black: Two Storage Modes

What distinguishes the two pyramids from one another is not their existence — both are mathematically equivalent — but their storage mode. The upper pyramid stores in *white*: as light, visible, accessible to the system, present in our world. The lower pyramid stores in *black*: as complement, invisible, present but unrecorded, hidden in the mirrored regime. The distinction between our world and its mirror-counterpart is therefore not a distinction of existence but of *being-recorded*. Matter and antimatter, the visible and the mirror plane, are the same phenomenon manifested through different storage modes.

The structural connection to charge conjugation in the CPT symmetry of particle physics is direct: where physics treats complex conjugation of the wavefunction as one component of antiparticle behavior, the present construction reads complex conjugation as the mechanism generating the mirror pyramid. The two formulations describe the same structural phenomenon in different vocabularies. The construction does not derive CPT symmetry from first principles, but it places it within a coherent deductive chain rather than as an externally imposed symmetry.

## 4.4 The Merkaba

The two pyramids together — one white, one black, meeting at the Neutral point — form the Merkaba structure: two interlocking tetrahedra. The Merkaba is not introduced here as a symbol from outside the construction; it is the geometric form that necessarily follows from the deductive chain that begins with Unity. The Merkaba captures the full structure: Unity, splitting, Trinity, complex two-dimensional pulsation, storage in the third dimension, the automatic existence of the conjugate, and the distinction between visible and invisible storage modes.

# 5. The Heisenberg Uncertainty Relation as a Storage Phenomenon

## 5.1 Conjugate Pairs as Pyramid Halves

Within the framework presented in Sections 2 through 4, the Heisenberg uncertainty relation acquires a structural interpretation. The conjugate pairs of quantum mechanics — position and momentum, time and energy — correspond, in the language of this construction, to the two halves of the Merkaba. Both halves exist mathematically and simultaneously, but only one

can be recorded — stored in white — at a given time. The other necessarily occupies the complementary, unrecorded position in black. The exclusivity of these two storage modes — either white or black, never both simultaneously in the same measurement context — is the structural content of uncertainty.

On this reading, uncertainty is not a defect of the measurement apparatus, nor a peculiarity of the quantum regime alone, but a consequence of the complex character of the underlying structure: only one of the two conjugate sides can be brought to recorded form at one time. What physics observes as uncertainty is the trace of this storage exclusivity.

## 5.2 An Everyday Illustration: The Sleep Need

To make the structural content of this reading accessible, an illustration from ordinary experience may be useful. Consider waking without an alarm. The body's sleep need runs its course, the body traverses its phases, and at some point — when the need has been satisfied — sleep ends of its own accord. The waking moment is not predetermined; it is the *consequence* of a completed process. Its precise value is not known in advance; in the language of the construction, the natural endpoint is stored in black — unobserved, known to the body, inaccessible to advance prediction.

Consider now setting an alarm. The waking moment becomes precisely known: six o'clock, seven o'clock, whatever the alarm specifies. The waking moment is now stored in white: visible, definite, externally retrievable. But at the moment this visibility is established, something else is lost: the natural endpoint of the sleep need is no longer determinable. It has not ceased to exist; it has been cut off by the measurement itself, because waking is now controlled by the alarm rather than by the need. The natural endpoint and the measured waking moment are conjugate. Precise knowledge of one excludes precise knowledge of the other — not because the system is defective, but because the act of observation determines which side becomes white and which remains black.

## 5.3 Status of the Structural Connection

The structural correspondence between the construction's storage exclusivity and the Heisenberg uncertainty relation is offered as a hypothesis: that the form of the two phenomena — mathematical complex conjugation underlying physical uncertainty in one case, the white/black storage asymmetry of the Merkaba structure in the other — reflects a common structural origin. The construction does not derive the quantitative content of the uncertainty relation ( $\Delta x \cdot \Delta p \geq \hbar/2$  and its analogues) from first principles. It claims a structural-form correspondence, not a quantitative one. Establishing or refuting a deeper identity between the two would require additional formal work.

# 6. The Periodic Shell Structure from Equidistance

## 6.1 Background: The Earlier Filter Approach

An earlier version of the present construction (documented in the Working Paper *Construction or Correspondence*, May 2026) attempted to derive atomic shell capacities by treating the standing wave between the poles as an overtone series subject to a filter: odd partials were rejected, and only partials whose node positions nested consistently across levels were retained. This filter forced a power-of-two ladder: 2, 4, 8, 16, 32. While this ladder reproduced the doubling structure of the periodic table (the form of paired periods), the values agreed with

the empirical  $2n^2$  sequence only at the crossings  $k^2 = 2^k$ , that is, at  $n = 2$  (giving 8) and  $n = 4$  (giving 32). Intermediate and higher values disagreed: 16 vs 18 for  $n = 3$ , 64 vs 50 for  $n = 5$ .

The earlier paper recorded this as a partial result: the form held, the values did not. The negative finding was qualified by the recognition that the filter itself might be the source of the disagreement — it prejudged the structure rather than allowing it to emerge.

## 6.2 The Equidistance Principle

The present construction abandons the filter. All overtones of the standing wave between ALL and NOTHING are accepted continuously, without prior selection. The structure of the resulting field is disciplined not by a filter but by an *equidistance principle*: the poles generated at each overtone level must be distributed equidistantly along the spatial cycle of that level. Each new Neutral point introduces two new poles, joining those already present, and all must be arranged with equal angular spacing.

From this requirement, a phase shift between successive sine waves becomes structurally necessary. Each new sine wave — traversing once from ALL to NOTHING and once from NOTHING to ALL — must be offset by the angle that preserves equidistance with the waves already present. The phase shift is not externally imposed; it is forced by the equidistance condition. The construction now proceeds without prior selection of which partials to retain.

## 6.3 The Derivation

Let  $k$  denote the overtone level ( $k = 0$  corresponds to the fundamental tone;  $k = 1$  to the first overtone; and so on). Let  $n = k + 1$ . At each level  $k$ , the following structure obtains:

- At overtone level  $k$  there are  $n$  Neutral points (counting the central Neutrum and the new ones introduced at this level).
- Equidistance requires  $n$  sine waves at distinct phase offsets, each constituting one *plane* of sine maxima. The phase offset between consecutive planes is  $360^\circ/(2n)$ , since  $2n$  positions must be accommodated by 2 traversal directions around  $360^\circ$ .
- Each sine wave at level  $k$  corresponds to the  $n$ -th harmonic and possesses  $2n$  extrema ( $n$  maxima and  $n$  minima) per full cycle.
- Multiplying:  $n$  planes  $\times$   $2n$  extrema per plane =  $2n^2$  *element positions per period*.
- The Merkaba structure of Sections 4.2–4.4 introduces a second period via the white/black storage doubling, yielding two periods per overtone level. (At the fundamental,  $k = 0$ , only one period appears: the white/black distinction has not yet been established by a prior storage event.)

The complete derivation is summarized in Table 1.

Level	$n$	Sine-wave planes	Extrema per wave	Per period $\times$ periods	Periodic-table assignment
Fundamental	1	1	2	$2 \times 1 = 2$	Period 1: 2 (H, He)
1st overtone	2	2 (offset $90^\circ$ )	4	$8 \times 2 = 16$	Periods 2, 3: 8 each

Level	n	Sine-wave planes	Extrema per wave	Per period × periods	Periodic-table assignment
2nd overtone	3	3 (offset 60°)	6	18 × 2 = 36	Periods 4, 5: 18 each
3rd overtone	4	4 (offset 45°)	8	32 × 2 = 64	Periods 6, 7: 32 each

The construction therefore generates the sequence **2; 8, 8; 18, 18; 32, 32** — precisely the period lengths of the empirically established periodic table.

## 6.4 The Storage Event and Shell Closure

A shell closes — transitioning to the next overtone level — when all sine maxima of the current level have been occupied. This transition is named the *storage event*. It is not an externally imposed boundary; it is the moment at which the equidistance configuration of the current level is fully filled and a new structural level becomes available. The next overtone, with one additional Neutral point, then proceeds to fill its own equidistance configuration, and so on.

The connection to the construction's broader framework should be noted: the storage event corresponds to the storage operation that produces the white-side recording of the configuration. The two periods per overtone level (with the white-black doubling) correspond to the two pyramidal halves of the Merkaba at that scale. The shell structure is, in this view, the spectroscopic signature of the same storage process that produces the Merkaba geometry.

## 6.5 Relation to the Quantum-Mechanical Result

The quantum-mechanical derivation of  $2n^2$  proceeds through angular momentum quantization ( $l = 0, 1, \dots, n-1$ ), the magnetic quantum number (giving  $2l+1$  orientations for each  $l$ ), and the factor of 2 for electron spin. Summing these contributions yields  $2 \cdot \sum(2l+1) = 2n^2$ . The present construction reaches the same numerical result through a different deductive route:  $n$  equidistant sine-wave planes, each containing  $2n$  extrema, doubled by the white-black storage modes. The two derivations agree on the value  $2n^2$  but differ in their starting points and in the structural objects to which they appeal.

Whether the two are equivalent in a deeper sense — whether the equidistant sine-wave structure of the present construction is, in some formal sense, an alternative representation of the angular-momentum eigenfunctions of quantum mechanics — is an open question. It is one of several entry points where formal mathematical work could productively engage; see Section 8.

## 7. Methodological Considerations

### 7.1 Generation vs. Description

The construction presented in this paper aims at *generation* rather than description. A model that merely describes a known pattern adds nothing the pattern did not already supply. The construction is held to a more demanding standard: its rules are fixed in advance and applied blindly, without reference to the empirical target. Comparison with empirical chemistry is admissible only after the blind derivation is complete. The earlier filter approach failed this

standard implicitly — the filter’s justification was partly informed by the doubling structure it was expected to produce — and the failure of its quantitative agreement with chemistry was traceable to this contamination. The present construction, based on equidistance and the acceptance of all overtones, was developed without prior selection of partials and produces  $2n^2$  as a consequence of the construction itself.

## 7.2 The Single Deductive Chain

The chain of derivation in the present construction is unbroken: Unity → Splitting (ALL/NOTHING) → Trinity (ALL/Neutral/NOTHING) → Complex two-dimensional pulsation (Red/Green real, Yellow/Blue imaginary) → Storage requirement → Storage axis (z) → Pyramid as holographic representation → Automatic complex conjugate → Mirror pyramid → White/black storage modes → Merkaba → Equidistance produces  $2n^2$  → Periodic shell structure. At no stage in this chain is an independent assumption introduced. Each step follows from the preceding ones. The construction is in this sense self-contained.

## 7.3 What This Is and What This Is Not

The construction is a *structural framework*: it specifies relationships between concepts and produces a specific quantitative result ( $2n^2$  with period pairing) from these relationships. It is not a derived physical theory in the formal sense. The construction does not begin from a Lagrangian or a Hamiltonian; it does not commit to specific physical dynamics; it does not yield predictions of energy levels, transition probabilities, or other observables that would distinguish it empirically from quantum mechanics. Its scope is limited to the *structure* of the shell capacities and the structural-form relationships to uncertainty, holographic encoding, and antimatter.

Whether the construction reflects a deeper structural truth about physical reality, or whether it merely captures a numerical regularity in a particularly elegant deductive form, is left as an open question. The bridges to standard physics topics are presented as hypotheses for further investigation, not as established equivalences.

## 8. Open Questions and Entry Points for Further Research

The construction as presented opens several specific directions where further work could engage.

**Mathematical formalization.** The deductive chain of Sections 2–4 is currently expressed in structural and geometric language. A formal mathematical representation — specifying the complex plane, the conjugation operation, the storage axis, and the equidistance condition in standard mathematical notation — would allow precise statements about the relationship between this construction and the standard quantum-mechanical treatment. Particular attention to the algebraic structure governing the four phases (whether they form a representation of a known group) would be useful.

**Subshell structure.** The current derivation accounts for the *total* shell capacity  $2n^2$  but not for the substructure (s, p, d, f subshells with capacities 2, 6, 10, 14). The  $(2l+1)$  factor in the quantum-mechanical derivation has no direct counterpart in the present construction. Whether the equidistance principle can be refined to yield the subshell substructure — perhaps through different partitions of the  $2n^2$  positions per period — is a specific question that could be investigated.

**Relationship to angular momentum eigenfunctions.** The structural correspondence noted in Section 6.5 — between equidistant sine-wave planes in the present construction and the angular-momentum eigenfunctions of quantum mechanics — deserves direct mathematical examination. Are the  $n$  planes at level  $k$  some representation of the  $l \leq n-1$  angular-momentum states? Is there a precise mapping?

**Other convergences in the same framework.** The PMNS mixing hierarchy of neutrino oscillation ( $\theta_{13} < \theta_{12} < \theta_{23}$ ) was previously identified as a qualitative structural match to a three-generation construction within this framework (see *Working Paper — PMNS Convergence*, May 2026). Reading this convergence within the now-clarified framework — with explicit storage axis and complex phase structure — may sharpen or alter the assessment. A separate prime-number construction, previously documented as a negative descriptive result, also warrants re-examination under the refined methodological standards.

**Empirical tests.** The construction makes no quantitative predictions that distinguish it from quantum mechanics in the energy spectrum or transition properties of atoms. Whether it produces distinguishable predictions in any regime — perhaps in highly excited states, in heavy or super-heavy elements where quantum-mechanical predictions become difficult, or in subtle correlations not captured by the standard treatment — is a question that requires both theoretical extension and experimental engagement.

**Relationship to the holographic principle.** The interpretation of the third dimension as a storage axis derived from the rotational requirements of a two-dimensional pulsation parallels the holographic principle, but in a different direction (3D as encoding for 2D dynamics, rather than 3D dynamics encoded on a 2D boundary). Whether these are equivalent, complementary, or genuinely different remains to be explored.

## 9. Conclusion

This paper has presented a generative geometric construction that derives the shell capacities of the periodic table from a single deductive chain beginning with the splitting of Unity. The central quantitative result — the equidistance origin of the  $2n^2$  shell structure, with the doubled-pair sequence 2; 8, 8; 18, 18; 32, 32 — emerges from a small set of structural primitives: the splitting of Unity into two poles with a Neutral midpoint, two directed primary movements characterized as Red and Green, an encounter event generating two secondary extremes Yellow and Blue, the complex character of the resulting two-dimensional phase plane, the emergence of a storage axis from rotational requirements, the holographic role of the tetrahedron, the automatic complex conjugate yielding a mirror pyramid, and the white/black storage modes of the Merkaba structure. Within this framework, the Heisenberg uncertainty relation acquires a structural interpretation as the exclusivity of the two storage modes.

The construction is offered not as a replacement for the quantum-mechanical treatment of atomic structure but as an alternative deductive chain through which the same numerical regularity appears, together with structural bridges to other phenomena that quantum mechanics also accommodates. Its value depends on whether the bridges identified — to the holographic principle, to charge conjugation in CPT symmetry, to Heisenberg uncertainty — reflect deeper structural connections that further research can establish, refute, or refine. Section 8 has identified specific entry points where such research could engage productively. The construction is presented in this paper with sufficient explicitness, it is hoped, for that engagement to be possible.