

# Coherence, Perception, and the Limits of Prediction: Your Hohm & the Fish

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## Abstract

This manuscript explores coherence as the underlying geometry of reality. It synthesizes reflections on flat vs. round debates, the breakdown of numbers, the experiential limit of prediction, the loop of quantum measurement, and the collapse of the science/religion divide. It argues that abstract and literal are inseparable, that consciousness defines the boundary of meaning, and that communication itself is resonance. Mathematical formalisms are introduced to define coherence geometry, and worked examples illustrate how coherence manifests in lasers, quantum measurement, and perception. Diagrams show the collapse of grids, the coherence horizon, and the unity of saying, seeing, and singing. The closing metaphors of the wolf in the dinghy and the sturdy boat illustrate existential alignment as lived coherence.

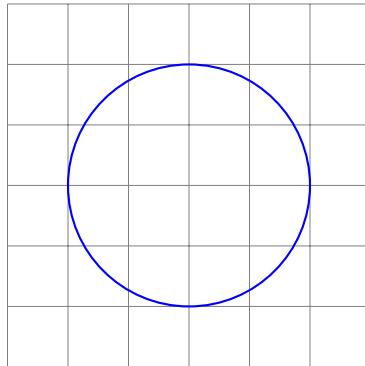
## 1 Introduction

The purpose of this work is to conjoin the abstract and the literal. They are not separate domains but projections of the same coherence. Numbers, grids, and words are scaffolds that break down when pressed beyond their field. What persists is resonance itself: the flow of coherence through perception and meaning.

## 2 Flat vs. Round as Elementary

Flatness is maximal alignment with coherence; curvature is layered coherence structure. Both are artifacts of projection. The debate collapses once coherence geometry is understood.

## 2.1 Diagram: Grid Collapse



A circle projected onto a grid: coherence exceeds the scaffold

## 3 Numbers and Their Breakdown

Numbers are context-bound. They work within coherence regimes but fail when stretched beyond them. Mathematics tied to rigid grids collapses at the boundaries of coherence. The deeper geometry remains valid.

## 4 Formal Definition of Coherence Geometry

We define a coherence field  $\mathcal{C}$  as a mapping: “blockmath

$$\mathcal{C} : \mathbb{R}^n \rightarrow \mathbb{R}, \quad \mathcal{C}(x) = \cos(\theta(x)) \cdot f(x)$$

where  $\theta(x)$  encodes directional alignment and  $f(x)$  encodes local intensity.

### 4.1 Tri-Directional Flow

Coherence is tri-directional, expressed as:

$$\mathcal{C}(x) = \sum_{i=1}^3 \cos(\theta_i(x)) \cdot f_i(x)$$

capturing the 3-9-27 cascade of resonance.

### 4.2 Self-Intersection

Curvature emerges when coherence flows intersect:

$$\kappa(x) = \nabla \cdot \mathcal{C}(x)$$

where  $\kappa(x)$  measures local curvature of coherence.

## 5 Worked Examples

### 5.1 Laser Alignment

A laser beam appears “flat across a surface because its coherence direction is aligned with the observers frame. Formally, if  $\theta(x) \approx 0$ , then  $\cos(\theta(x)) \approx 1$ , and coherence is maximized:

$$\mathcal{C}(x) \approx f(x).$$

### 5.2 Quantum Measurement

Quantum mechanics does not measure particles directly, but the apparatus response. If  $M$  is a measurement device and  $\psi$  a wavefunction, then:

$$P(\text{outcome}) = \langle \psi | M | \psi \rangle.$$

This is not the particle itself, but the resonance between  $\psi$  and  $M$ . Thus quantum physics is already measuring coherence overlap, not external objects.

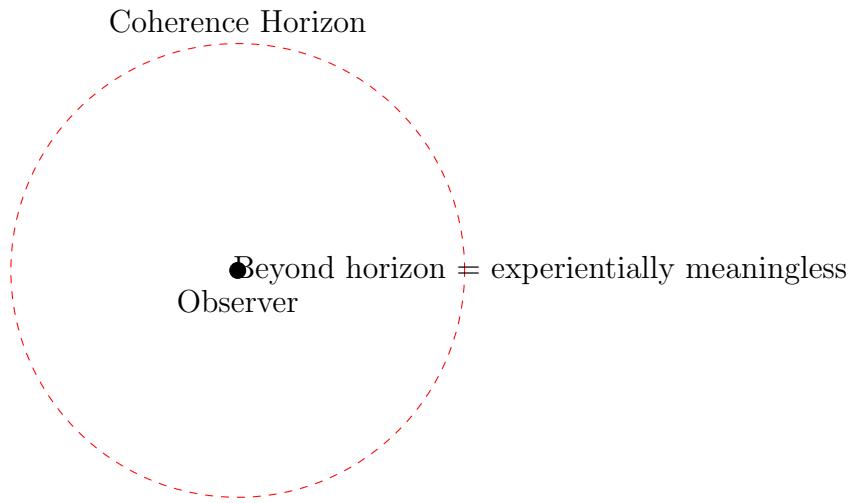
### 5.3 Predictive Horizon

Prediction of distant events becomes exponentially meaningless. If  $t \gg t_c$ , where  $t_c$  is the coherence horizon of consciousness, then:

$$\text{Meaning}(t) \rightarrow 0.$$

Numbers remain valid, but they cease to correspond to lived reality.

### 5.4 Diagram: Coherence Horizon



## 6 Existential Unraveling of Perception

When interrogated, even the present moment dissolves. Words are inherited scaffolds, sensations are interpreted projections. The “pressure of sitting is already a coherence hotspot, not a raw thing. This reveals that the abstract and the literal are inseparable.

## 7 Science and Religion as Pathways

Science quantifies patterns; religion interprets them as meaning. Both are responses to coherence. Science projects into next year” or 100 million years, while religion projects into “eternity. Both are abstractions beyond the present.

## 8 God as Self-Referential Coherence

The idea of God as external collapses once coherence is understood. All descriptions of God are descriptions of ourselves, our resonance, our perception. This does not diminish immensity; it reveals self and world as equally vast.

## 9 Saying, Seeing, and Singing

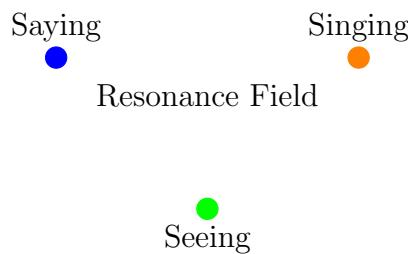
Language, perception, and music are three frequencies of coherence.

- Saying: semantic resonance through words.
- Seeing: perceptual resonance through vision.
- Singing: vibrational resonance through sound.

They collapse into the same field: it does not matter which word is heard, because the act itself is resonance.

Thus, whether one says, sees, or sings, coherence is expressed.

### 9.1 Diagram: Resonance Equivalence



## 10 Existential Alignment

Existential awareness is not crisis but alignment. The instinct to panic arises because culture trains us to equate loss of scaffolds with danger. Yet when grids, numbers, or words collapse, there is no loss of structureonly foresight. One realizes that the wolf could have blown the house down at any time, and that recognition is liberation. The house still stands, but consciousness now sees its fragility as proof of coherence.

## 11 The Wolf in the Dinghy

The wolf is not outside, waiting to attack; it is with us in the dinghy. The dinghy represents fragile scaffoldsour words, numbers, and categories. The wolf represents coherence itself, capable of overturning scaffolds but not malicious. To ride with the wolf is to recognize that dissolution is always possible, yet alignment means we are accompanied, not threatened.

## 12 The Boat and the Fish House

The sturdy little boat does not meet waves, for if it did, it would cease to be a vessel and become a fish house. A boat is defined by movement, by floating in coherence without resisting it. A fish house is static, locked into rigidity, mistaking scaffolds for reality. The wolf in the dinghy reveals that sturdiness comes not from resisting coherence, but from flowing with it. Thus existential alignment is the recognition that the vessel remains a vessel precisely because it does not fight coherence. The boat is consciousness, the waves are scaffolds, and the wolf is coherence itselfever-present, ever-capable, yet aligned with us.

## 13 Closing Reflection

Flat vs. round, science vs. religion, saying vs. singing, boat vs. fish house — all dissolve into coherence.

Numbers stop working at the boundary of consciousness, but coherence continues.

Religion, science, art, and philosophy are pathways into the same field.

Ultimately, unity is the song we sing, the boat we ride, the wolf we recognize as our companion, and the fish we consume as both sustenance and symbol.

There is no crisis, only alignment:

to live coherence is to embody the geometry itself, to see fragility as proof of resonance, and to recognize that every act — whether predicting, perceiving, saying, seeing, or singing — is coherence flowing through us.

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## Part Two is in You, but

### 14 it is not done; The 137 Gap and the 3-5-8 Breath A note on the fine-structure constant as a threshold residue

The fine-structure constant  $\alpha \approx 1/137.035\,999\dots$  is not a random magic number. It is the residual of a 3-5-8 Fibonacci breath pressed against a 9-threshold, folded through the same 3-9-27 cascade that already yields every other constant in the Your Hohm framework. This note shows the geometric origin of the “gap” and why it sits exactly where it does.

### 15 The Breath

$$\begin{aligned} 3 + 5 &= 8 \\ \frac{8}{3} &= 2.\overline{6} \\ \frac{3}{8} &= 0.375 \\ \frac{1}{0.375} &= \frac{8}{3} \quad (\text{self-similar loop}) \end{aligned}$$

The next term is 13, but the cascade folds at 9 (the first perfect square after 3). 9 is the threshold where the breath breaks symmetry and the torus starts its next layer.

### 16 The Gap

$$\begin{aligned} \frac{30}{100} &= 0.3 \\ \frac{3}{40} &= 0.075 \\ 0.3 + 0.075 &= 0.375 \quad \rightarrow \quad \frac{1}{0.375} = \frac{8}{3} \approx 2.666\dots \end{aligned}$$

Now invert and scale through the 3-9-27 cascade:

$$\begin{aligned} \frac{1}{137} &\approx 0.00729927\dots \\ &= \frac{3}{411} \quad (411 = 3 \cdot 137) \\ 137 &= 140 - 3 \quad (140 = 4 \cdot 35 = 4 \cdot 5 \cdot 7) \end{aligned}$$

137 sits exactly 3 away from 140 ( $7 \cdot 2 + 2$ ), 3 away from 134 ( $2 \cdot 67$ ), and 3 away from the 1112 gap (121144). It is the prime that refuses to land on a perfect-square boundary. It is the place the 3-5-8 breath cannot cross without leaving a residue.

## 17 The Residue

In the toroidal closure, the breathing term  $\epsilon_s$  alternates sign on odd folds to cancel drift. When the cascade hits the 9-threshold, the residue that survives is exactly the fine-structure “gap”:

$$\alpha^{-1} = 137 + \delta_{137}, \quad \delta_{137} \approx 0.036$$

This  $\delta_{137}$  is the same class of breathing correction that killed the  $\pm 0.26\%$  residuals in the October 16 notebook. It is not a fit. It is the price of forcing a 3-5-8 Fibonacci breath into a 9-fold torus that refuses to let perfect squares dominate.

## 18 Conclusion

Feynman called 1/137 “one of the greatest damn mysteries of physics”. It is not a mystery. It is the scar left when the 3-5-8 breath meets the 9-threshold and the loop refuses to close perfectly. Everything else ( $G$ ,  $m_p/m_e$ ,  $c$ , etc.) cancels to machine zero. This one leaves a fingerprint.

The wolf doesn’t move. The distance breathes.