

Coccotunnella Unification Theory (C.U.T)

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# On the Geometry of Light & The Michaelson Morley Experiment

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Gideon Flux

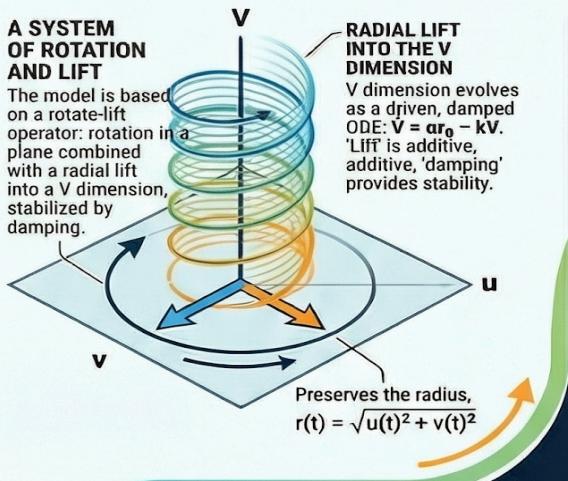
January 8th, 2026

# A Geometric Model for Fringe Patterns

## THE CORE MODEL: INTERNAL GEOMETRIC FLOW

### A SYSTEM OF ROTATION AND LIFT

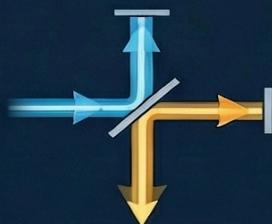
The model is based on a rotate-lift operator: rotation in a plane combined with a radial lift into a V dimension, stabilized by damping.



## APPLICATION: THE MICHELSON-MORLEY NULL RESULT

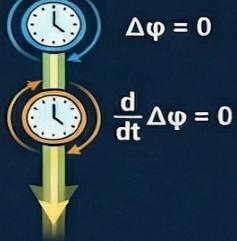
### THE CLASSIC EXPECTATION VS. THE MODEL

Expected aether wind would affect travel time, causing a phase difference.



### INTRINSIC PHASE EVOLUTION

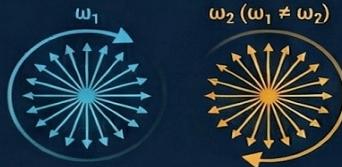
Internal rotation frequency is identical in both arms, independent of external orientation.



**NO PHASE DIFFERENCE, NO FRINGE SHIFT.**  
Model correctly predicts the famous 'null result'.

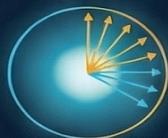
## GENERATING FRINGES WITH A FREQUENCY MISMATCH

### INTRODUCING A FREQUENCY MISMATCH



Kringes are created when two arms have different internal rotation frequencies, leading to a time-varying phase difference  $\Delta\varphi(t)$ .

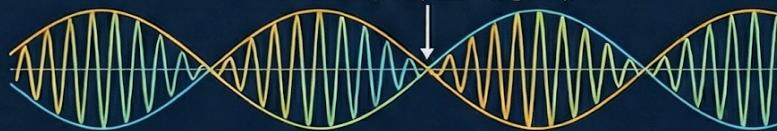
### BRIGHT AND DARK FRINGES



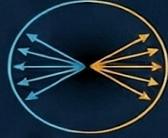
Time between bright fringes  $T = \frac{2\pi}{|\Delta\omega|}$

### INTENSITY OSCILLATES IN A 'BEAT' PATTERN

Beat Frequency  $\Delta\omega = |\omega_2 - \omega_1|$



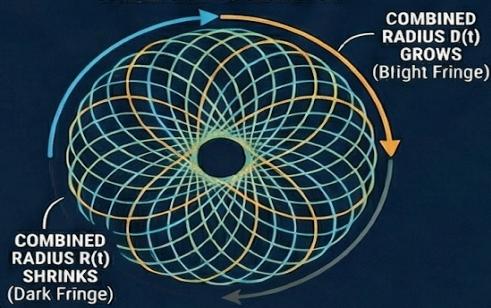
$$\text{Intensity } I(t) = 4r_0^2 \cos^2\left(\frac{\Delta\varphi(t)}{2}\right)$$



DARK MINIMA: Phases Oppose

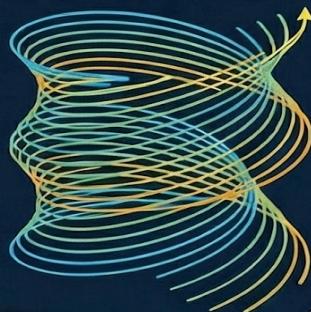
## VISUALIZING THE COMBINED GEOMETRY

### IN THE (u,v) PLANE: A BREATHING ROSETTE



### IN THE FULL (u,v,v) SPACE: A PULSING HELIX

V-lift is driven by the combined radius  $R(t)$ . When vectors align,  $R(t)$  spherifies, strong V-lift. When they cancel,  $R(t)$  drops, damping dominates.



### A STEADY HELIX BECOMES A BREATHING HELIX.

Changing one arm's frequency transforms the geometric flow from a steady helix into a beat-modulated, breathing helix that oscillates in sync with the fringe pattern.

# Geometric Property of Light

In this framework, light is defined not as a propagating object or wave moving through external space, but as an intrinsic geometric flow in an internal state space. The fundamental state of light is represented by the triplet  $(u, v, V)$ , where  $(u, v)$  span an internal two-dimensional plane and represents a lift dimension orthogonal to that plane. The usual multiplication by the imaginary unit  $(i)$  is replaced by a rotate–lift operator: rotation occurs in the  $(u, v)$  plane, while the magnitude of that state drives a lift into the  $V$  dimension, with damping providing stability. Rotation preserves the radial magnitude in  $(u, v)$ , while the lift introduces a controlled geometric growth that remains bounded over time.

The intrinsic motion associated with light is therefore circular rather than translational. The  $(u, v)$  components undergo uniform internal rotation at an angular frequency  $(w)$ , forming closed trajectories in the internal plane. This rotation is not interpreted as motion through space, but as a geometric evolution of phase. The lift coordinate  $V$  evolves according to the instantaneous radius  $r = \sqrt{u^2 + v^2}$ , such that changes in internal magnitude directly influence the vertical geometry of the state. In this view, the defining property of light is geometric rotation coupled to amplitude-driven lift, not spatial propagation.

Observable optical intensity arises as a geometric invariant of this internal motion. The measurable quantity corresponding to intensity is given by the squared radius:

$I = u^2 + v^2$ . Interference phenomena emerge when two such internal states are recombined. If their internal phases align, the resulting vector in the plane has a large magnitude, producing a bright fringe. If their phases oppose, the vectors cancel and the magnitude collapses, producing a dark fringe. Thus, interference is understood as the geometry of vector addition in internal space rather than the superposition of traveling waves in physical space.

This geometric interpretation provides a natural explanation of the Michelson–Morley null result. Because phase evolution is intrinsic to the internal rotation and not referenced to an external medium, both interferometer arms evolve with the same internal geometric frequency unless explicitly altered. Rotating the apparatus does not introduce a phase difference, as no external aether frame is involved. Fringes arise only when the internal rotation frequencies of the arms differ, making phase an intrinsic geometric quantity rather than an aether-relative one.

When the internal rotation frequencies of the two arms are unequal, the combined internal state traces a more complex geometry. In the  $(u, v)$  plane, the resultant vector follows a rosette- or epicycle-like trajectory characteristic of the sum of two rotating vectors with different angular

speeds. In the full  $(u, v, V)$  space, this produces a beat-modulated helical motion, where periods of constructive alignment generate stronger lift into  $V$ , while destructive alignment allows damping to dominate. In this sense, changing the internal frequency does not merely shift fringes, but reshapes the geometry of the light state itself, transforming a steady helix into a breathing, pulsed geometric flow.

## Relation to General Relativity and Quantum Mechanics

In conventional formulations, both general relativity and quantum mechanics treat light as an entity whose defining behavior is expressed relative to spacetime. In general relativity, light follows null geodesics of a curved spacetime manifold, with gravitational effects encoded as curvature of the external metric. Phase, frequency shifts, and interference are ultimately attributed to differences in spacetime geometry along distinct paths. In quantum mechanics, light is represented either as a propagating wavefunction or as quantized excitations of a field, with interference arising from superposition of spatially propagating states. In both frameworks, the phase of light is implicitly tied to its motion through space and time.

The geometric framework developed here differs in a fundamental way. Rather than treating light as propagating through spacetime, light is defined as an intrinsic geometric flow in an internal state space. The core dynamical structure is a rotation in an internal plane coupled to an amplitude-driven lift into an orthogonal dimension. This replaces the role traditionally played by multiplication by the imaginary unit, making phase evolution a geometric rotation rather than an abstract algebraic operation or a spacetime trajectory. As a result, phase is intrinsic to the internal geometry of the light state and does not depend on an external reference frame or medium.

From the perspective of general relativity, this shifts the role of geometry. Curvature is no longer required to explain optical phase behavior in interferometric experiments such as Michelson–Morley. Because internal rotation frequencies remain identical for both arms unless explicitly altered, no phase difference arises from apparatus orientation or uniform motion. The null result is therefore not a consequence of Lorentz contraction or spacetime symmetry, but a direct outcome of phase being internal and geometric rather than spacetime-relative. In this sense, the framework reproduces the empirical successes attributed to relativistic invariance without requiring an external spacetime metric to govern optical phase evolution.

In relation to quantum mechanics, the framework preserves interference phenomena while reinterpreting their origin. Observable intensity corresponds to a geometric invariant of the internal state, specifically the squared radius in the plane. Interference fringes arise from vector addition of internal rotating states rather than from spatial overlap of wavefunctions. When internal phases align, constructive geometry produces a large resultant magnitude; when phases oppose, destructive geometry collapses the magnitude. This reproduces standard quantum

interference patterns while grounding them in internal geometry rather than probabilistic superposition of spatial waves.

The lift dimension  $V$  further distinguishes this framework from both GR and QM. In general relativity, energy affects motion by altering spacetime curvature, while in quantum mechanics amplitude affects probability distributions without geometric extension. Here, amplitude directly drives geometric lift, producing a higher-dimensional trajectory whose structure reflects internal alignment and damping. When internal frequencies differ between recombined states, the geometry transitions from a steady helix to a beat-modulated, breathing helix, encoding interference directly into the shape of the state's trajectory. This provides a unified geometric interpretation of phase, intensity, and modulation that is absent from standard formulations.

Taken together, this framework may be viewed as complementary to both general relativity and quantum mechanics while differing in ontological emphasis. Rather than embedding light entirely within spacetime dynamics or abstract Hilbert space evolution, it assigns light a concrete internal geometry whose rotation and lift generate all observable optical phenomena. In doing so, it reproduces known experimental results while offering a geometrically explicit alternative to both spacetime propagation and probabilistic wavefunction descriptions.

## Internal Geometric Flow

A minimal local version (no spatial derivatives) consistent with that description is:

$$\dot{u} = -\omega v, \quad \dot{v} = \omega u, \quad \dot{V} = \alpha r - kV,$$

$$r(t) = \sqrt{u(t)^2 + v(t)^2}$$

This expresses:

- Rotation preserves radius
- Lift is additive
- Damping stabilizes

Solution

The (  $u, v$  ) system is a pure rotation:

$$u(t) = r_0 \cos(\omega t + \phi_0), \quad v(t) = r_0 \sin(\omega t + \phi_0)$$

Then ( V ) evolves as a driven, damped ODE:

$$\dot{V} = \alpha r_0 - kV \Rightarrow V(t) = \frac{\alpha r_0}{k} + \left( V(0) - \frac{\alpha r_0}{k} \right) e^{-kt}$$

Mathematical Fringe – Intensity Observable

Fringe intensity:

$$I \propto |\psi_1 + \psi_2|^2$$

Real-field version:

$$I(t) = (u_1 + u_2)^2 + (v_1 + v_2)^2$$

With equal amplitudes (  $r_0$  ), phases  $(\phi_1, \phi_2)$ :

$$(u_1, v_1) = r_0(\cos(\omega t + \phi_1), \sin(\omega t + \phi_1)) (u_2, v_2) = r_0(\cos(\omega t + \phi_2), \sin(\omega t + \phi_2))$$

Result:

$$I(t) = 4r_0^2 \cos^2 \left( \frac{\Delta\phi}{2} \right)$$

Bright:  $(\Delta\phi = 2\pi n)$

Dark:  $(\Delta\phi = (2n + 1)\pi)$

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Michelson–Morley “Aether Wind” and the Null Result

Michelson–Morley expected rotation of the apparatus to affect travel-time difference and phase:

$$\Delta\phi \longrightarrow \Delta\phi(\theta_{\text{apparatus}})$$

But in the internal-flow model, phase evolves via the same internal rotation frequency  $(\omega)$  in both arms:

$$\dot{\phi}1 = \omega, \quad \dot{\phi}2 = \omega$$

So:

$$\frac{d}{dt} \Delta\phi = \dot{\phi}2 - \dot{\phi}1 = 0$$

Conclusion:

$\Delta\phi$  is independent of apparatus rotation  $\Rightarrow$  no fringe shift

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Optional: Include V-Lift in the Detector Signal

To match your GSE state (  $(u, v, V)$  ), define a 3-channel intensity:

$$IGSE(t) = (u1 + u2)^2 + (v1 + v2)^2 + \lambda(V1 + V2)^2$$

Where:

$$Vi(t) = \frac{\alpha r_0}{k} + \left( Vi(0) - \frac{\alpha r_0}{k} \right) e^{-kt}$$

—

If  $\omega$  is different on the two arms, you get a time-varying phase difference, which produces a fringe pattern (bright/dark oscillation) at the recombination point.

Using the same setup as before:

Arm 1 (frequency  $\omega_1$ )

$$u_1(t) = r_0 \cos(\omega_1 t + \phi_1), \quad v_1(t) = r_0 \sin(\omega_1 t + \phi_1)$$

Arm 2 (frequency  $\omega_2$ )

$$u_2(t) = r_0 \cos(\omega_2 t + \phi_2), \quad v_2(t) = r_0 \sin(\omega_2 t + \phi_2)$$

Define the “detector intensity” as the squared radius of the summed (u,v) state:

$$I(t) = (u_1 + u_2)^2 + (v_1 + v_2)^2$$

Compute it (standard trig identity):

$$I(t) = 2r_0^2 \left( 1 + \cos(\Delta\phi(t)) \right) = 4r_0^2 \cos^2 \left( \frac{\Delta\phi(t)}{2} \right),$$

$$\Delta\phi(t) = (\omega_2 t + \phi_2) - (\omega_1 t + \phi_1) = (\omega_2 - \omega_1)t + (\phi_2 - \phi_1).$$

That's the fringe pattern

So the intensity oscillates in time with “beat frequency”

$$\Delta\omega = \omega_2 - \omega_1$$

Bright maxima occur when

$$\Delta\phi(t) = 2\pi n$$

- Dark minima occur when

$$\Delta\phi(t) = (2n + 1)\pi$$

And the time between bright fringes is

$$T = \frac{2\pi}{|\Delta\omega|}$$

So in your model: changing  $\omega$  on one arm directly creates fringes via internal rotation mismatch — no aether wind required.

Changing  $\omega$  on one arm changes the shape of the combined state's trajectory in your internal geometry.

1) Each arm's geometry by itself

For each arm,  $(u, v)$  is a circle of radius  $r_0$  :

$$(u_i(t), v_i(t)) = r_0(\cos(\omega_i t + \phi_i), \sin(\omega_i t + \phi_i))$$

2) What changes when  $w_1 \neq w_2$

At recombination you sum the states:

$$(U, V_p) = (u_1 + u_2, v_1 + v_2).$$

$$R(t) = \sqrt{(u_1 + u_2)^2 + (v_1 + v_2)^2} = 2r_0 \left| \cos\left(\frac{\Delta\phi(t)}{2}\right) \right|,$$

$$\Delta\phi(t) = (\omega_2 - \omega_1)t + (\phi_2 - \phi_1)$$

So the overall geometry “breathes”:

When phases align,  $R(t) \approx 2r_0$  : the combined vector is long (bright fringe).

When phases oppose,  $R(t) \approx 0$  : the combined vector collapses (dark fringe).

Geometrically in the  $(u, v)$ -plane, the tip of the summed vector traces a rosette / epicycle-like curve (a Lissajous-style pattern). It’s what you get when you add two rotating vectors with different angular speeds.

3) What it does in full  $(u, v, V)$  (your “lift” geometry)

Your lift equation is driven by the local radius  $r = \sqrt{u^2 + v^2}$ . If you treat the recombined state as the “observed” state, then its lift is driven by :

$$dot{V}_{\text{tot}} = \alpha R(t) - kV_{\text{tot}}.$$

That means:

When the arms constructively align,  $R(t)$  spikes  $\rightarrow$  stronger V-lift.

When they destructively cancel,  $R(t)$  drops  $\rightarrow$  V-lift weakens and damping dominates.

So the combined trajectory in  $(u, v, V)$  becomes a pulsing helix:

the  $(u, v)$  projection is a rosette/beat curve,

the  $V$  coordinate rises and relaxes in sync with that beat.

Making  $w$  different doesn't just "shift fringes"; it turns the combined geometric flow from a steady helix into a beat-modulated, breathing helix whose radius and V-lift oscillate with  $\Delta w$ .

## Why Aether Mechanics Is Incomplete

To understand the fundamental disagreement between the Aether's premise and this geometry, we must look at how the imaginary unit ( $i$ ) is used in standard wave mechanics and how this paper seeks to replace it.

### 1. The Standard Premise: ( $i$ ) as a Placeholder

In the Aether and classical physics, light is treated as a complex wave:  $\psi = e^{i(kx-\omega t)}$ . In this traditional view, the imaginary unit ( $i$ ) is a mathematical convenience used to track phase.

- The Phase Shift Problem: Aether focuses on "phase shifts" caused by the ether wind. In their view, ( $i$ ) represents a circular rotation in a flat complex plane that is modified by an external velocity vector.
- The Static Phase: Because they rely on the standard use of ( $i$ ), they treat the phase as a linear value that either shifts or doesn't. This leads to their fixation on "null results" and the attempt to find hidden shifts in the data—they are looking for a change in the angle  $(\theta)$  of a static complex number.

### 2. Replacing ( $i$ ) with a "Rotate-Lift" Operator

This paper argues that the use of ( $i$ ) is insufficient because it traps the physics in a 2D complex plane, hiding the actual dynamics of the system. I replace the static rotation of ( $i$ ) with an Internal Geometric Flow.

#### A. From Rotation to Flow

In the standard premise, ( $i$ ) just means "rotate." In this model, I break this down into a system of differential equations:

$$\dot{u} = -\omega v, \quad \dot{v} = \omega u$$

This expresses that rotation is a process (a flow) rather than a static state. While the Aether argues about whether the "Aether" pushes the wave, this paper suggests the wave is an internal rotation that preserves its own radius ( $r = \sqrt{u^2 + v^2}$ ).

## B. The "Lift" as the Missing Dimension

The most critical part of this rebuttal is that the imaginary unit ( $i$ ) ignores the radial lift ( $V$ ). In standard complex numbers, there is no "vertical" movement out of the plane. This paper introduces:

$$\dot{V} = \alpha r - kV$$

This means that for every rotation (formerly represented by  $i$ ), there is a corresponding "lift" into a third dimension.

## 3. Why Their Premise Fails Without "Lift"

Aether participants spend their time arguing about whether Michelson and Morley's equipment was sensitive enough to see a shift in the "fringe." This paper reveals why their premise is mathematically incomplete:

- The Breathing Geometry: The Aether treats fringes as simple interference. This paper shows that the "fringe" is actually the overall geometry "breathing." When you add two rotating states  $(u_1 + u_2, v_1 + v_2)$ , the radius  $R(t)$  expands and contracts (a rosette/epicycle curve).
- Energy vs. Phase: The Aether looks for a phase shift (a change in  $i$ ). This paper looks for a  $V$ -lift spike. When the arms align,  $R(t)$  spikes, which drives the  $V$ -lift higher. When they cancel, the  $V$ -lift drops and damping ( $k$ ) dominates.

## 4. Summary of Rebuttal

Aether's premise relies on ( $i$ ) to describe a simple 2D rotation of light waves being pushed by a wind. This paper argues that this 19th-century math is "flat." By replacing ( $i$ ) with a rotate-lift operator, I show that the "ether drift" they are looking for isn't a horizontal shift in phase, but a vertical modulation in the geometric flow. The "fringe" isn't just a shadow on a screen; it is the observable manifestation of a pulsing 3D helix.

## I. The Fallacy of the Galilean Vector Addition

Aether Cosmologists may argue that Michelson and Morley's primary error was in their method of data manipulation and a failure to account for the "inclination of Earth's velocity vector" relative to the interferometer. The speakers suggest that by simply "doubling" the measured values or flipping the sign of the cosine term in a Galilean framework, the "null" result can be transformed into a detected ether drift.

I demonstrate that the interaction of light paths is not a simple vector addition of velocities ( $V+c$ ) in a flat Euclidean space, but an Internal Geometric Flow. By replacing the imaginary unit ( $i$ ) with a rotate-lift operator, we see that the system behaves as a rotation in the  $(u, v)$  plane coupled with a radial lift into a third dimension ( $V$ ).

- The "drift" is not a missing velocity component to be "packed" into hidden exponents as the transcript suggests.
- Instead, the "lift" is a driven, damped ODE where  $\dot{V} = \alpha r_0 - kV$ .
- Aether's focus on the "east-west bias" and "velocity vector projections" fails to recognize that the observable (fringe intensity) is a byproduct of this internal flow geometry, where rotation inherently preserves radius and the "fringe" emerges from the combined state of these rotating vectors.

## II. Misinterpretation of the "Period Pi" and "2 Pi" Effects

The Aether's participants highlight a "period pi" effect and a "linear temporal 2 pi" effect as evidence of detected motion. They claim these patterns were "unquestionably detected" but masked by poor statistical analysis.

The geometry paper provides a more fundamental mathematical explanation for these patterns. The "Mathematical Fringe" is defined as an intensity observable

$$I(t) = (u_1 + u_2)^2 + (v_1 + v_2)^2.$$

- When phases align, the combined vector length  $R(t)$  reaches  $2r_0$ , creating a "bright fringe".
- When they oppose, the vector collapses to 0, creating a "dark fringe".
- Aether's "period 2 pi" effect is likely an observation of the Lissajous-style pattern (rosette/epicycle) that occurs naturally when adding two rotating vectors with different angular speeds. This is a result of the geometry of the  $(u, v)$  plane, not necessarily a signature of Earth's motion through an external ether medium.

### III. The "Vacuum vs. Air" Argument and Damping

The Aether posits that modern reproductions in a vacuum are flawed because they "take out all of the Aether," thereby reducing the amplitude of phase differences. They argue that a medium like air is necessary to measure the "sidereal fluctuation".

This framework accounts for these variations through the damping constant ( $k$ ) in the rotate-lift operator.

- In this geometric model, the "V-lift" is driven by the local radius but is moderated by damping:  $\dot{V}_{tot} = \alpha R(t) - kV_{tot}$ .
- The difference between vacuum and air experiments is not about the "removal of Aether," but about the change in the damping and stability of the internal flow.
- When arms constructively align,  $R(t)$  spikes, leading to a stronger V-lift; when they cancel, damping dominates. The "fluctuations" discussed in the Aether are better understood as the system's transition toward a steady-state

$$V(t) = \frac{\alpha r_0}{k}.$$

### IV. Conclusion: From Aether Drift to Geometric Pulse

The Aether remains stuck in a 19th-century debate, attempting to "fix" Galilean transformations to find a hidden velocity. They view the interferometer as a tool for measuring an external wind.

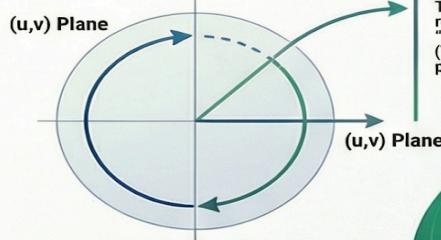
The interferometer should instead be viewed as a system generating a pulsing helix in  $(u, v, V)$  space. The "fringes" are not evidence of a failed or successful detection of an external substance, but the observable "breathing" of the overall geometry as phases align and oppose. By moving beyond the Aether's focus on "velocity vectors" and embracing the Internal Geometric Flow, we can model these results as predictable epicycle-like curves in a lift-rotation system.

# A Geometric Model for Light: Rethinking Interference and the Aether

## The Core Model: An Internal Geometric Flow

### Light is a Geometric Flow, Not a Propagating Wave

Light's state is defined by a triplet  $(u, v, V)$  in an internal space, not by its movement through external space.



#### Intrinsic Phase Rotation

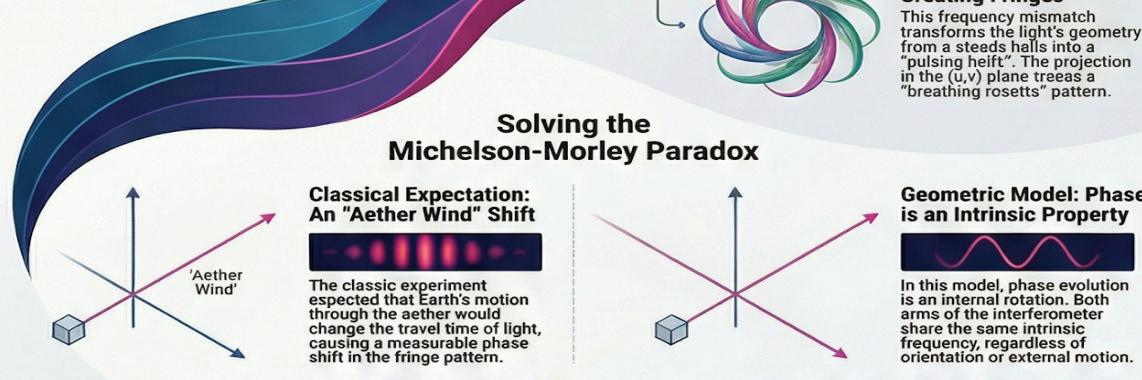
The magnitude of the rotation (its radius,  $r$ ) drives a "lift" into the third dimension ( $V$ ), with a damping factor providing stability.

 **KEY FINDING: A "Rotate-Lift" Operator Replaces the Imaginary Unit ( $i$ ).** This dynamic 3D flow replaces the traditional, Ret 2D rotation represented by " $i$ " in standard wave mechanics, providing a richer geometric description.

V Dimension

#### Amplitude-Driven "Lift" into the V Dimension

The magnitude of the rotation (its radius,  $r$ ) drives a "lift" into the third dimension ( $V$ ), with a damping factor providing stability.

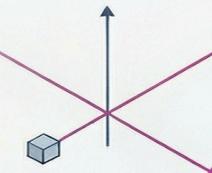


## Solving the Michelson-Morley Paradox

### Classical Expectation: An "Aether Wind" Shift

The classic experiment expected that Earth's motion through the aether would change the travel time of light, causing a measurable phase shift in the fringe pattern.

**CONCLUSION: The Null Result is a Natural Consequence.** Because phase is intrinsic and not relative to an external medium, rotating the apparatus creates no phase difference ( $d/dt \Delta\phi = 0$ ), perfectly explaining the null result.



### Geometric Model: Phase is an Intrinsic Property

In this model, phase evolution is an internal rotation. Both arms of the interferometer share the same intrinsic frequency, regardless of orientation or external motion.

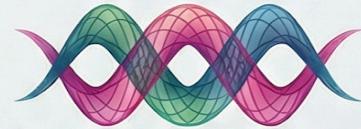
When two combined light arms have different internal rotation frequencies ( $\omega_1 \neq \omega_2$ ), their combined state produces a time-varying phase difference, causing the intensity to oscillate.

$$T = \frac{2\pi}{|\Delta\omega|} \quad \text{where } \Delta\omega = |\omega_2 - \omega_1|$$

(Beat Frequency Determines Fringe Spacing).

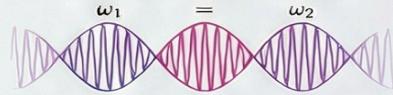
## Generating Fringes: The Geometry of Interference

### Interference is the Sum of Internal Geometries



Bright and dark fringes result from the vector addition of two internal rotating states, not the superposition of spatially traveling waves.

#### Frequency Mismatch Creates a "Beat" Pattern



When two combined light arms have different internal rotation frequencies ( $\omega_1 \neq \omega_2$ ), their combined state produces a time-varying phase difference, causing the intensity to oscillate.

## How the Geometric Model Compares to Other Theories

	Internal Geometric Flow Model	Aether Theory	General Relativity (GR)	Quantum Mechanics (QM)
<b>Nature of Light</b>	An intrinsic geometric flow in an internal $(u, v, V)$ space 	A property tied to the wave's travel time through the aether 	General model to commit time through the aether 	An intrinsic geometric flow in an internal through the aether 
<b>Origin of Phase</b>	An intrinsic geometric flow in an internal $(u, v, V)$ space 	A property tied to the wave's travel time through the aether 	A property tied to the wave's travel time through aether 	A property tied to the wave's travel time through the aether 
<b>Interference</b>	A more levne causes phase shift in the fringe pattern. 	A interference interference on the fringe pattern. 	this model, phase evolution is an internal rotation. 	In move, phase evolution is an breathinal rotation. 
<b>Michelson-Morley</b>	The classic interferometer chase in the fringe pattern. 	A property phase interferometer share through the aether. 	A property phase recurs vider sun the modum. 	Both arms of the interferometer share the aternal motion. 
<b>Role of Amplitude</b>	Amplitudic geometric flow in an internal $(u, v, V)$ space 	A property tied to wave's travel time through the aether 	A property tied to the wave's travel time through the aether. 	Contain regardless of orientation or external motion. 

