

Short Communication

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Speed of Light: Trans Dimensional Unified Field Theory

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$$c(1s) = \left(2 + \phi^{-1} + \phi^{-2} - \sum_{n=1}^{\infty} [(\phi^{-n} + \phi^{-2n}) \left(\frac{\psi(1s)^{1/5}}{1 + \frac{\psi(1s)}{1 + \frac{\psi(1s)^2}{1 + \frac{\psi(1s)^3}{\ddots}}}} \right) n n^{-k}] \right) \cdot 10^8 \text{ m/s}$$

TDUFT is a language of Physics: Geometry is additive and wave is multiplicative; coming together at 1 (unity or particle) and 0 (separation). Phi is Velocity and Psi is time. All elements of the equation are operators, including + and – to all symbols. The negative is not as traditionally viewed and the operator can be moved around. Geometric dimensions are the whole numbers. The dimension ladder is by powers. The speed of light equation combines both geometry and wave. When phi and psi are used together, they represent the proportionality that exists. But phi can represent longitudinal and transverse waves whose numbers would exhibit the same proportion. From dimension 2 we move to adding 1 or dimension 3 by vibration or elastic collision. Lattice points on the ether are photons. The Higgs is the photon, where being a transition particle, mass emerges through motion in the 3rd dimension. After the number 3 is reached we subtract infinite harmonic attenuation or entropy to get the exact speed of light number. The TDUFT ladder is infinite. The universe is an infinite fractal; there is no center. Dimensions are infinite conjugates, velocity and time. Properties are merely functions of VT combinations or products. The equation shows geometries from 2-3 and wave mechanics to dimension 8 and then entropy to infinity. No dark matter here, only infinite dimensional recursion, infinite dimensions. This extends to the atom, 1 particle per shell with sub-particles, at center 30% thereabouts empty shells to infinity or entropic infinite harmonic attenuation, squaring velocity and square root time shell to shell. And this system extends to the cosmos and planets. The ether is a multi-dimensional lattice with lattice nodes.

Entropy of Infinite harmonic attenuation as 2 components for velocity and time. It turns out the time portion is the Roberts Ramanujan equation.

The core equation is as follows in multiple forms:

- $c = (2 + v^{(-1)} + v^{(-2)} - \varepsilon) \cdot 10^8$
- $c = (2 + \phi^{-1} + \phi^{-2} - \varepsilon) \cdot 10^8$
- $c_{\text{medium}} = (2 + v^{(-1)} + v^{(-2)} - \varepsilon_{\text{medium}}) \cdot 10^8 / n$
- $c = (2 + \phi^{-1} + \phi^{-2} - \sum_{n=1}^{\infty} [(\phi^{-n} + \phi^{-2n}) \cdot \psi^n \cdot (1/n^k)]) \cdot 10^8 \text{ m/s as } k \rightarrow \infty$

Where:

- $\phi = \frac{1+\sqrt{5}}{2}$ (golden ratio)
- $\varepsilon \approx 0.00207542$ (dimensional attenuation)
- The sum $2 + \phi^{-1} + \phi^{-2} = 3$ reflects trinitarian recursion
- The exponent 8 encodes recursive descent from D^8 ether to D^2 photon
- n denotes the refractive index of the medium

$$c = (2 + \phi^{-1} + \phi^{-2} - \sum_{n=1}^{\infty} [(\phi^{-n} + \phi^{-2n}) \cdot \psi^n \cdot \frac{1}{n^k}]) \cdot 10^8 \text{ m/sas } k \rightarrow \infty$$

Clause Interpretation

- $\phi^{-2} + \phi^{-2}$: The inverse harmonics of golden ratio, anchoring recursive attenuation
- $\sum_{n=1}^{\infty} [\dots]$: Infinite attenuation series, modulated by ψ^n and harmonic decay $\frac{1}{n^k}$
- $k \rightarrow \infty$: Ensures convergence, purifying the attenuation into a finite clause
- 10^8 m/s : Anchors the resonance in dimensional velocity, not symbolic constant

This framework also derives the Higgs mass as a dimensional resonance, not a scalar assignment. The core mass emergence equation is:

$$> \mathbf{m} = \frac{c \cdot G \cdot t}{D^2} > \text{revising Maxwell}$$

Where:

- $c = (2 + \phi^{-1} + \phi^{-2} - \varepsilon) \cdot 10^8$ is the velocity clause
- $G = \frac{\phi \cdot \psi^{-3}}{(8\phi^2 - 8\phi + 2)^2} \cdot 10^{-9}$ is the gravitational inversion clause = $1/T^4 = 1/\text{Density}^2$
- $t = \psi = -1/\phi$ is the time operator
- $D^2 = \phi^3$ is the charge gate
- $\text{Mass} = D^3 T^2$ (transition particles cross this boundary)

This yields a mass near 125 GeV, matching the Higgs resonance observed at CERN — not by calibration, but by dimensional recursion.

This framework decomposes velocity into longitudinal and transverse wave components, anchored in golden ratio resonance. It reframes mass emergence as a dimensional permission event at D^3 , aligning with photon-photon interactions and Higgs threshold logic.

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