Visualizing the Cosmic Nucleus in 3D

Mathematics

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Synchronized field or path integral:

$$\mathbf{V(\Phi) = \int \left| \prod \cos(f_0 \cdot r_s^{\,n} + \theta_{tp}) \right| dx}$$

Where:

$V(\Phi)$ = integral vacuum potential
f_0 = nominal rate or frequency (=1)
r_s = scaling ratio
Θ_{tp} = phase propagation in parametric time

In other words, each factor $\Phi_n = f_n(\theta_{tp})$ is a *functional* of the phase propagation, so that:

$$\mathbf{V(\Phi) = \int \left| \Phi_0(\theta_{tp})\Phi_1(\theta_{tp})\Phi_2(\theta_{tp}) \text{ etc..} \right| dx}$$

So far it has numerically been shown that for $r_s=\varphi$ (Golden Ratio, 1.618..), n=0..2 and $x/L_0 >>1$:

$$\mathbf{V(\Phi) = \int \left| \prod \Phi_n(\theta_{tp}) \right| dx \cong A + B \cos(2 \cdot \theta_{tp})}$$

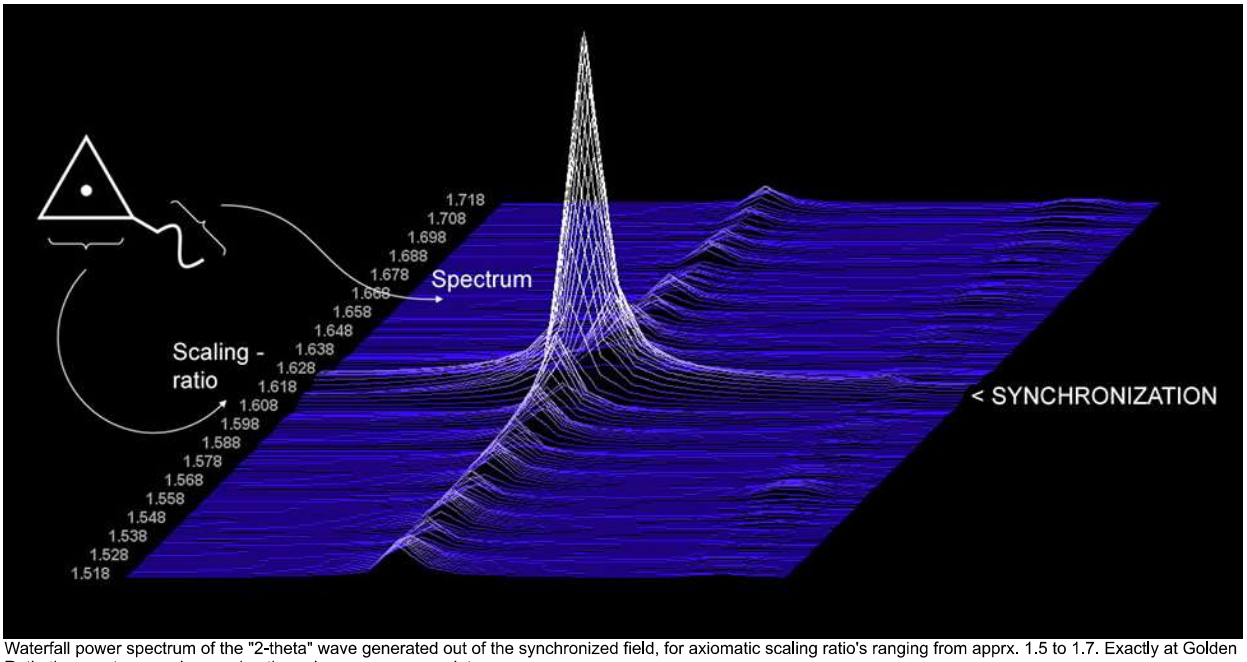
With L_0 being the wavelength of f_0. ***This means that the synchronized field produces an external ("2-theta") oscillation with twice the frequency of the internal, nominal phase wave. In physics terms, this breaks the symmetry of the field.***

The amplitude (top-top) of the 2-theta oscillation, B, is apprx. 4% of the ground level A. The latter in physics is hypothized to be the Vacuum Expectation Value (VEV).

Note: the standard use of the letter Phi for the field as well as for the Golden Ratio is mere coincidence. Either way the uppercase Φ refers to the field, and lowercase φ refers to the scaling ratio.

Animations:

The individual phase waves $\mathbf{\Phi_0}$, $\mathbf{\Phi_1}$ and $\mathbf{\Phi_2}$ are shown at the bottom, with the absolute value of the composite wave $\mathbf{\prod \Phi_n}$ above it.The purpose of the model is to show the synchronized field's "2-theta" wave $\mathbf{A + B \cos(2 \cdot \theta_{tp})}$ in a glance. For that purpose the ground level A is filtered out, and gain B is normalized, say from 0 to 1, so that the synchronized $\mathbf{V(\Phi)_{norm} \cong \cos(2 \cdot \theta_{tp})}$. In the animation this is the total white area under the curve of the composite wave. The model can be seen as a purely manual spherical projection of $\mathbf{\prod \Phi_n}$ "seen from above", whereby lighter colors indicate higher peak levels. The final rendering merges the composite wave with the integral potential through the multiplication $\mathbf{\prod \Phi_n \cdot V(\Phi)_{norm}}$, for each Δx.
The sinusoïdal segment left from the centre traces the ideal "2-theta" wave, for easy verification and comparison.



Waterfall power spectrum of the "2-theta" wave generated out of the synchronized field, for axiomatic scaling ratio's ranging from apprx. 1.5 to 1.7. Exactly at Golden Ratio the spectrum peaks, proving the unique resonance point.

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