

EXTENDING “ECONOMIC CIRCUITRY” OUT OF META

space $\stackrel{\text{def}}{=} \{P, \{cord \stackrel{\text{def}}{=} \langle \rho, \varphi, \theta \rangle\} \stackrel{\text{def}}{=} \mathfrak{S}$ *General Utility Unit* $\stackrel{\text{def}}{=} \overrightarrow{\mathbb{G}_u} = [\omega, \varphi, \theta]$
information $\stackrel{\text{def}}{=} \{\{Concept \stackrel{\text{def}}{=} c, Real Utility \stackrel{\text{def}}{=} \vec{r} \Leftrightarrow \overrightarrow{\mathbb{G}_u}, Imaginary Utility \stackrel{\text{def}}{=} \vec{i} \Leftrightarrow \overrightarrow{\mathbb{G}_u}\} | \vec{i} \times \vec{r}\} \stackrel{\text{def}}{=} \mathfrak{S}$

$$\|\vec{i}\| = \sum_{n:F_3 \rightarrow F_\infty}^{-} \left(\omega_r - \frac{1}{n^2} \omega_i \right) \hat{\omega} + (\varphi_r - \varphi_i) \hat{\varphi} + (\theta_r - \theta_i) \hat{\theta}$$

$$\vec{i} \times \vec{r} = \|\vec{i}\| + \vec{r}$$

To calculate the normal semi-direct product of Imaginary and Reality Utility we subtract over the Fibonacci sequence apply the inverse square, starting $F_n = 3$ (2), to the weight of the Imaginary vector and subtract that from the Real vector's weight and apply that to the unit vector for weight. The zenith and azimuth remain constant as the direction, only magnitude, of the imaginary vector is being scaled. We use a Fibonacci sequence because of its relationship to the golden ratio and its guaranteed convergence. We then add this transformed vector to the real utility vector.

$$\mathcal{G} \bowtie \mathfrak{S} = \nabla(\nabla \cdot \mathcal{G} \odot \mathfrak{S}) - \nabla \times (\nabla \times \mathcal{G} \otimes \mathfrak{S})$$

$$\mathcal{G} \star \mathfrak{S} = \mathcal{G} \times \bigcap_{\mathfrak{S}ic} \widehat{c}_n \cdot (\vec{i}_{w+P} \bowtie \vec{r}_{w+P}) | \widehat{c}_n = f(\mathcal{G})$$

$$\mathcal{G} \odot \mathfrak{S} = \prod_{\mathcal{G}} \mathcal{G} \star \mathfrak{S}$$

$$\mathcal{G} \otimes \mathfrak{S} = \prod_{\mathcal{G}}^{\times} \mathcal{G} \star \mathfrak{S}$$

$$\overleftrightarrow{Time} = \bigcup_{space \bowtie thought}$$

GRAVITATIONAL CONSTANT

$$\Gamma \stackrel{\text{def}}{=} \bigcup_{-\infty}^{+\infty} \Phi_C = \{\gamma \bowtie \Phi\}$$