

$L^{1/2}_{(0\ 1/2\ 1)}$ Entropy Space , Quantum Time-Space and Unified

Field Theory

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Abstract In this paper, we get a characteristic equation with an entropy form and we find that it is interesting when put physic constants h and C into the equation, we get a **Unified Field Equation**.

Keywords $L^{1/2}_{(0\ 1/2\ 1)}$ Space Unified Field Equation

$L^{1/2}_{(0\ 1/2\ 1)}$ Space coordinate system

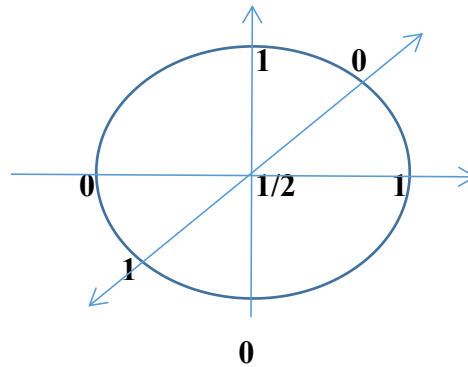


Figure.1. A $L^{1/2}_{(0\ 1/2\ 1)}$ Uniting space

$$\tau \in N \left[0 \quad \frac{1}{2} \quad 1 \right] N \bmod(2N)$$

$$T \in [e^{2\pi Ni} = 1, e = \lim_{n \rightarrow \infty} (1 + \frac{1}{N})^N]$$

$$t \in \left[\frac{e^{i2\pi} + e^{i\pi}}{2} = 0, \frac{e^{i2\pi} - e^{i\pi}}{2} = 1 \right]$$

$$\langle T \rangle_{[0,1]} = \langle \tau \rangle_{[0,1/2,1]} + \langle t \rangle_{[0,1]}$$

$$\text{Ln}T = N + \frac{1}{2\pi Ni}$$

The Geometry Structure of Time-Space with energy

We can see in Fig.2, a unit $\langle C \rangle \ln T - 1/N \langle h \rangle - 2\pi N$ with a 1/2 Symmetry connects the Time-Space and Energy together. C as the velocity of Light, h is Planck constant and a_f is Acceleration or the Intensity of field (m/s²).

When $N=1$, then we have a coupling number set:

$$[0 \ 1/3 \ 2/5 \ 3/7] \ \frac{1}{2} \ [1 \ 2 \ 3 \ 4] \ [4/7 \ 3/5 \ 2/3 \ 1] \ \frac{1}{2} \ [7 \ 5 \ 3 \ 2]$$

Fig.2 shows the structure of the time-space with energy.

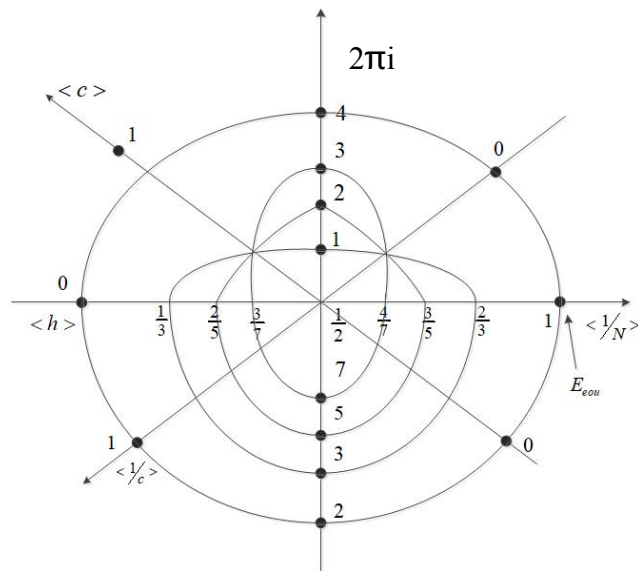


Fig.2 The Geometry Structure of time-space with energy

And then we obtain as:

$$\text{Ln}T = Nh - \frac{Ci}{2\pi a_f}$$

This is a quantum Time Space with Energy. The basic Quantum number is

$$[h, \frac{1}{c}, \frac{c}{2\pi i}, N \sim P]$$

The basic unit of the Space-Time with Energy in our model is $S_{E_0} \sim \frac{hc}{2\pi}$ and we get the following:

$$1/a_F \sim 4\pi N \frac{h}{c}$$

The $1/a_F$ can be considered as the curvature of the Space-Time with Energy !

Fig. 3 shows the picture uniting the gravitation and Electric-Magnetics field in the Quantum Time space with energy and $L^{1/2}$ Entropy space .

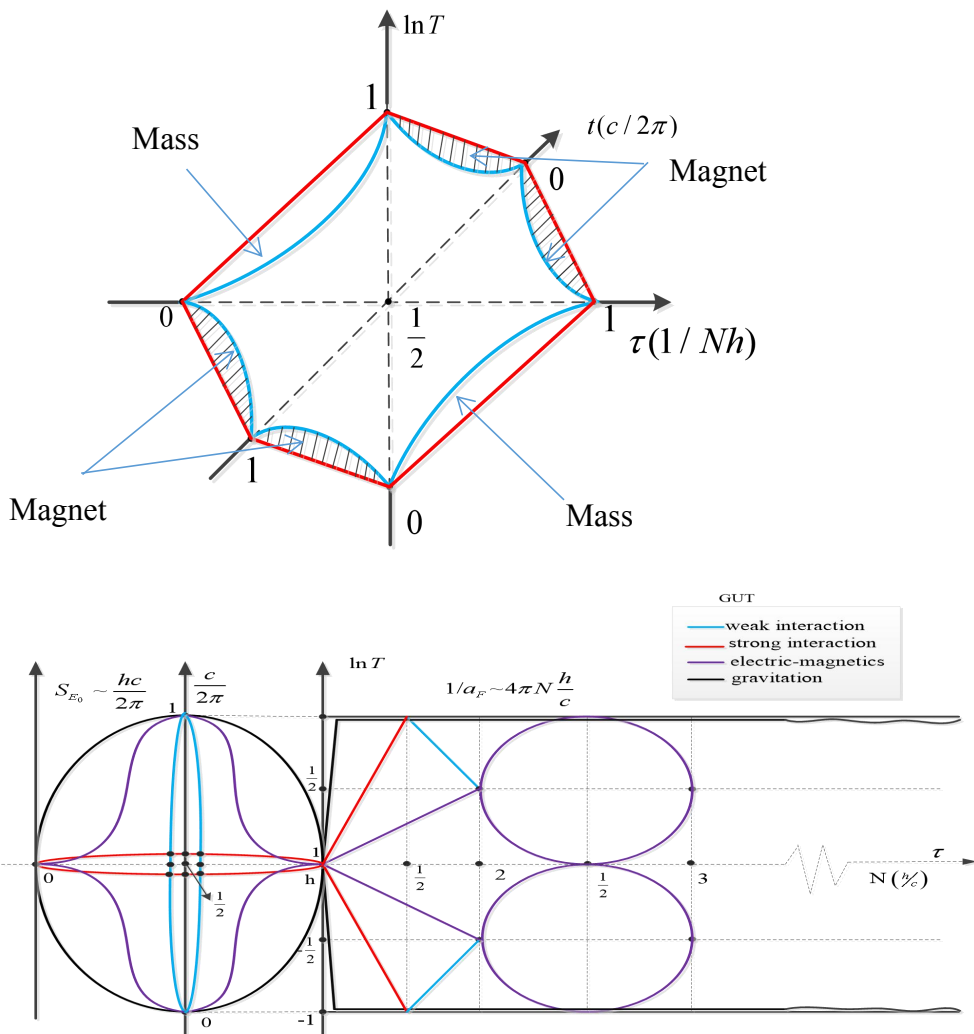


Figure.3. Uniting the gravitation and Electric-Magnetics field

This model have an **entropy form** and just provide a probability to combine the **Gravitation** and **Electric-Magnetics field** under a basic structure of quantum Time-Space with energy.