ISSN: 2639-0108

Mini Review Article

Advances in Theoretical & Computational Physics

Quantum Gravitation Solutions

Besud Chu Erdeni

Unified Theory Lab, Bayangol disrict, Ulan-Bator, Mongolia

***Corresponding author**
Besud Chu Erdeni, Unified Theory Lab, Bayangol disrict, Ulan-Bator, Mongolia.

Submitted: 09 March 2021; **Accepted:** 15 March 2021; **Published:** 18 March 2021

Citation: *Besud Chu Erdeni (2021) Superunification: Pure Mathematics & Theoretical Physics. Adv Theo Comp Phy 4(1): 75-76.*

Summary

This is intended to clarify the so called problem of quantum gravitation. In absolute geometry space-time is intrinsically quantum-gravitational implying that there is no need to try to quantize gravity.

In the Φ-invariant absolute geometry

$$\dim G = \Phi^2/\sqrt{2}; \quad (1)$$

$$\dim h = \Phi i_1 \sqrt{2}. \quad (2)$$

Therefore,

$$\dim_{\bullet}(Gh) = \Phi^3 i_1 \quad (3)$$

showing that space-time is intrinsically quantum-gravitational. The 4-Dim curved and torsional space-time is

$$\left\{\pi \frac{\Phi^3\sqrt{i_1 i_2}}{\mathrm{Spin}_{\cos 30}}\right\}. \quad (4)$$

Here we have the global cosmic true, mathematical time of Newton

$$i_1 = \sqrt{2} \quad (5)$$

and the relative local time

$$i_2 = 4/\pi \quad (6)$$

Universality of gravitation is explained by the fundamentality of the golden section algorithm

$$\left\{\pi \frac{\Phi^3\sqrt{i_1 i_2}}{\mathrm{Spin}}\right\}^{G\dim G} = \cos\Theta_W \cdot 10^{16.0000...} \quad (7)$$

It is provable that the bare numeric Newton's constant does infinitely tend to the finite fraction

$$G = 6.673 \quad (8)$$

In the universal system of mathematical harmony we have

$$65537^G 6.673 = \Phi\pi\, e.10^{30.9999...}; \quad (9)$$

$$\{G^{\,G}\}^G = \Phi\pi.10^{35.9999...} \quad (10)$$

Both Newton's and Planck constants can be derived in many equivalent ways, for example,

$$e^{h\dim h} = 237\,684\,442 \quad (11)$$

whence pure theoretically

$$h = 6.62606876 \quad (12)$$

It refers to the system of harmony

$$237\,684\,442 \cdot \left\{X \cdot e^{3\Phi\pi i_1\sqrt{2}}\right\} = \frac{798539}{3}\cdot 10^{63}. \quad (13)$$

Due to the constructive algorithmic foundations of geometry and standard mechanisms of the system of universal harmony it is easy to foresee and obtain (14)

$$\sqrt{\{3,5,17,257,65537\}_*^{\times}\cdot\{G_{6.673}\dim G\}}^{2\Phi\pi i_1} = \frac{2638453}{3}\cdot 10^{68}. \quad (14)$$

In the universal system of mathematical harmony one can derive any phenomena known in experimental physics

$$G\dim G\cdot c_{\,2.99792458}\{\dim c = i_1\} = \sqrt[\Phi\pi]{319659350}; \quad (15)$$

$$\exp\frac{1}{10}\lg\frac{\left\{\{G\dim G\cdot c\{\dim c = i_1\}\}^{\Phi\pi c}\right\}}{10^{21}} = \frac{\Phi}{1.999...}. \quad (16)$$

In terms of the Theta-strong parameter (17-19)

$$\sqrt[\cos 2\Theta_{STR.}]{\frac{Gh\cdot\dim(Gh=\Phi^3 i_1)}{\cos 2\Theta_{STR.}}} = 12141052; \quad (17)$$

$$\pi\frac{\Phi^3\sqrt{i_1 i_2}}{\mathrm{Spin}}(Gh)\cdot\{\dim\Phi^3 i_1(3+1)\}\cdot\frac{2\Theta_{STR.}}{\cos 2\Theta_{STR.}} = 2060753, \quad (18)$$

$$\left\{\pi\frac{\Phi^3\sqrt{i_1 i_2}}{\mathrm{Spin}}(Gh)\cdot\{\dim\Phi^3 i_1(3+1)\}\right\}^{\Phi\pi c} = \frac{7837048}{3}\cdot 10^{50}. \quad (19)$$

Therefore, quantization of gravity as a seperate problem does not exist in physics.

In general, physics shifts to the synthetical methods of description of the physical Universe. The synthesis of all the knowledge available at current moment is based upon the new discoveries which notably make pure mathematics essentially complete. Consequently, sticking to analytical methods in theoretical physics will no more be productive; it will be waste of human intelligence for nothing particular. Scientific revolutions are never reversible. Without the final theory we have been trying to popularize in the field of natural sciences the modern civilization could hardly avoid global catasthrope in the 21st century. We bet on the fate of human civilization.

At first was mathematical continuum. It was self-exited and self-organized into the universal system of harmony we observe as the physical Universe. The latter is software, not hardware. In the first order of approximations the mathematical machine works as 10-digit electronic calculator. The last harmonious integer (HI) in the above owes to

$$7837048.\ \Phi\pi e = \frac{216\ 578\ 079/2}{2} \qquad (20)$$

If accurately, the formula is corrected by

$$\pi = 1 + \frac{1}{1567050.975161250595604761530591 9} \qquad (21)$$

As it is easy to guess, we here have the effect of global cosmic space-time perturbations. Indeed (22),

$$\frac{429037537}{\pi\frac{\Phi^3\sqrt{i_1 i_2}}{\text{Spin}}(Gh)\cdot\left\{\dim\Phi^3 i_1(3+1)\right\}} = 156718.9159 \qquad (22)$$

Higher order approximations are always possible, though there is no need for doing so. No one formula is exact simply because self-perturbation effects of the system do never vanish.

The Universe does eternally exist and function solely due to the violation of mathematical symmetries in the system of harmony. If, say, (20) were precise, then the machine will stop to work with the consequence that the Universe instantly collapses.

Absolute geometry writes the universal energy term as (23)

$$\mathbf{U_E} = \left\{\dim E = \Phi\sqrt{2}\right\}\cdot h\dim h\cdot\left\{2N_{1837.41}m_e c^2\right\}\cdot\frac{2\Theta_{STR.}}{\cos 2\Theta_{STR.}} \qquad (23)$$

and it is noticeable that

$$Gh\ .\ U_E = 10^{10.999\ldots} \qquad (24)$$

May it mean that quantum gravitation is equivalent to the universal energy? The UFOs are real phenomenon observed nearly everywhere over the Earth globe. What if the priniple of free cosmic flight lies in (24)?

References

1. Isaac Newton (1995) The Principia. Prometheus Books.
2. Besud Chu Erdeni (2021) Superunification: Pure Mathematics & Theoretical Physics. Adv Theo Comp Phy 4: 1-5.