1158-11-307   **Zhi-an Luan*** (`zhianluanwl@gmail.com`), Vancouver, BC 14350, Canada. *Number structures of quantum gravity fields.*

Here we establish the Number Theory framework of Generalized Newton's Gravity Laws (GNGL).-Zhi-an Luan, CAP-Congress (Theoretical Physics), 2019 4 June Burnaby, #2448.

1. We found that the Fibonacci sequence $\sqrt{5}/2$, $(7-\sqrt{5})/2$ are representation of quantum gravity on 2-torus geometric group momentum equals to 0.618012897, inverse is 1.61809209, which near above irrational algebraic numbers of the Fibonacci sequence.

2. We exactly determine Boltzmann constant is $8\sqrt{3}$; Planck constant is $2\pi\sqrt{3}$, reduced is $2\sqrt{3}$, then $(2\sqrt{3}) ** 2$ is 12, $(24\sqrt{3}) ** 2 = 12^{***} = 1728$!

3. We obtain that maximum gravity growth rate is $27 = (3\sqrt{3}) ** 2$, coherent radius is $\sqrt{3}$ in normal transition, then light velocity is 3 million km/s lower than real photon velocity $3.89953\ldots$.

4. Eight quantum gravity spectrums totally include key number $\pm 1/2 \ \pm \sqrt{3}i/2$, $\pm\sqrt{3}/2 \ \pm i/2$. Newton's constant is 2/3.

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