

Cosmic Energy Keys And The Great Pyramid At Giza

-BY-

Jerry E. Bayles

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ABSTRACT

This paper will serve to unite several fundamental parameters involving the quantum fine structure constant, the hyperfine frequency of the hydrogen atom, the Golden Ratio, the electrogravitational frequency of my own theory of "Electrogravitation As A Unified Field Theory", as well as the 60 Hz field as a fundamental constant in nature with the geometry built into the design of the Great Pyramid at Giza in Egypt.

It will also be shown that my previous work involving what I call the "energy pipe high voltage event" has a direct connection to the critical parameters involved in the generation of tremendous amounts of free energy allowed for by the architecture of the Great Pyramid

The Great Pyramid at Giza in Egypt is the model for the analysis done in this paper but it is not the sole example of pyramid architecture. There are literally thousands of pyramids around the world and some are very close in dimensional design of the Great Pyramid. This suggests to me that the other pyramids transformed energy as well as transferred that energy so that a shared system of energy exchange was in use around the world. Not only was power shared but the pyramids could also likely communicate much as quantum entangled particles do instantaneously.

It is also possible that flying saucer craft used the pyramids as landing sites and could tap into the energy being generated by the pyramids. Finally, evidence is building in the scientific community, that is based on serious scientific study, the pyramids were not constructed using crude methods such as copper chisels and slave labor.

EVALUATION CONSTANTS

$c_{\text{vel}} := 2.997924580 \cdot 10^{08} \cdot \text{m} \cdot \text{sec}^{-1}$	Speed of light in free space
$\alpha := 7.297353080 \cdot 10^{-03}$	Fine Structure Constant
$f_{\text{H}} := 1.420405751786 \cdot 10^{09} \cdot \text{Hz}$	Hyperfine frequency of atomic hydrogen

Then the wavelength of the hyperfine frequency of hydrogen atom is:

$$\lambda_{\text{H}} := \frac{c}{f_{\text{H}}} \quad \text{where} \quad \lambda_{\text{H}} = 8.309493722004856 \cdot \text{in} \quad 1)$$

An acoustic key length is four times the hyperfine wavelength of hydrogen.

$$\lambda_{\text{K}} := \lambda_{\text{H}} \cdot 4 \quad \text{where,} \quad \lambda_{\text{K}} = 2.769831240668285 \cdot \text{ft} \quad 2)$$

The fundamental Great Pyramid (GP) perimeter is calculated to be:

$$\lambda_{\text{P}} := \frac{\lambda_{\text{K}} \cdot 8}{\alpha} \quad \text{where} \quad \lambda_{\text{P}} = 3.036532518356132 \times 10^3 \cdot \text{ft} \quad 3)$$

The perimeter of the (GP) divided by 8 is the distance between the midpoint of one side and the contact point of a line dropped from the apex to the center point of the base. It is therefore established that the most probable intended height is arrived at by multiplying this distance by $4/\pi$.

$$P_{\text{H}} := \frac{\lambda_{\text{P}}}{8} \cdot \left(\frac{4}{\pi}\right) \quad \text{where} \quad P_{\text{H}} = 483.27916015565995 \cdot \text{ft} \quad 4)$$

(Petrie's measurement = 481.33 feet, p.132 of "The Giza Powerplant" by Christopher Dunn.)

The square of $4/\pi$ yields a number extremely close to the Golden Ratio.

$$\Phi_{\text{G}} := \left(\frac{4}{\pi}\right)^2 \quad \text{then,} \quad \Phi_{\text{G}} = 1.621138938277405 \quad 5)$$

Let a fundamental frequency on the perimeter of the GP be defined based on the golden ratio of:

$$\Phi_{\text{Gf}} := \Phi_{\text{G}} \cdot (1 \cdot \text{Hz}) \quad \text{or,} \quad \Phi_{\text{Gf}} = 1.621138938277405 \cdot \text{Hz} \quad 6)$$

Then the air velocity along one side of the base of the GP can be calculated to be:

$$v_{\text{air}} := \Phi_{\text{Gf}} \cdot \frac{\lambda_{\text{P}}}{4} \quad \text{or,} \quad v_{\text{air}} = 1.230660275713169 \times 10^3 \cdot \frac{\text{ft}}{\text{sec}} \quad 7)$$

The Long Cubit is equal to 20.63 inches and multiplying that number by $(4/\pi)$ squared equals 33.444096... inches. Divide that by 4 and we arrive at 8.34501 inches which is extremely close to the hyperfine frequency of the hydrogen atom. $\lambda_H = 8.309493722004856\text{in}$

$$\Phi_G \cdot 20.63 \cdot \text{in} = 33.444096296662856 \cdot \text{in} \quad 8) \quad \Phi_G \cdot 20.63 \cdot \text{in} \cdot \frac{1}{4} = 8.361024074165714 \cdot \text{in} \quad 9)$$

It will be shown that this result is intimately related to the 33 feet used to survey the capital of our nation, Washington, D.C. Further, the cubit (and even multiples of it) are ubiquitous in all of the pyramids, especially the Great Pyramid at Giza in Egypt. Finally, if we take the so called "eye" in the dollar bill as a UFO or flying saucer, we arrive at the conclusion that the pyramid could be used as a charging source for the saucers. The meaning is lost if the eye is used instead of a flying saucer.

Ezekiel's vision of the new temple used the long cubit of roughly 21 inches which is approximately the length of the cubit derived by Newton related to the measurements of the King's chamber of the Great Pyramid at Giza in Egypt. Newton came up with 20.63 inches where the long cubit of that length yielded a room of 20 by 10 cubits exactly. That cubit length multiplied by the Golden Ratio of 1.6211 (= $4/\pi$ all squared) is extremely close to 4 times the wavelength of the hyperfine radiation of the hydrogen atom. See: <http://biblehub.com/ezekiel/40-5.htm>

The ark of the covenant also is very relevant, having dimensions of 2 -1/2 by 1-1/2 long cubits. Finally, the energy pipe experiment on my web site also uses the long cubit to explain why it generated very high voltage out of thin air while also not being near power lines on a clear and cloudless day. For a detailed description of that event where I was nearly electrocuted by induced high voltage see: http://www.electrogravity.com/EnergyPipe/EnergyPipe_Add1.pdf

The golden ratio has application to not only the construct of the Great Pyramid at Giza, it has a direct application to the energy pipe I present at my web site at [electrogravity.com](http://www.electrogravity.com).

Multiply the wavelength of the hyperfine frequency of hydrogen by 4 and then again by 3, we arrive at 8.309493... feet .

$$\lambda_H \cdot (4) \cdot (3) = 8.309493722004856 \cdot \text{ft} \quad 10)$$

Then dividing that result by $1 + \alpha$ the quantum fine structure constant, we arrive at 8.24929... feet.

$$\frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} = 8.249295698630622 \cdot \text{ft} \quad \text{and also:} \quad \frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} = 98.99154838356748 \cdot \text{in} \quad 11)$$

Multiply that by 4 and we arrive almost exactly at 33 feet. (Actually 32.997182... feet.)

$$\left[\frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} \right] \cdot 4 = 32.99718279452249 \cdot \text{ft} \quad 12)$$

That is the length of the surveyors chain used to lay out the city of Washington D.C. by Washington's men. Washington was a Free Mason of highest degree and the number 33 is held as having special significance dating back to a time now unrecorded.

Dividing 33 feet by the golden ratio equivalent to $(4/\pi)$ squared, we arrive at 20.354321... feet.

$$\left[\left[\frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} \right] \cdot 4 \right] \cdot \frac{1}{\left[\left(\frac{4}{\pi} \right)^2 \right]} = 20.354321283273073 \cdot \text{ft} \quad (13)$$

Multiply that by 60 Hz, we arrive at 1221.2592... feet per second for the air velocity which would be near 162.12 degrees Fahrenheit for the ambient air temperature.

$$\left[\left[\frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} \right] \cdot 4 \right] \cdot \frac{60 \cdot \text{Hz}}{\left[\left(\frac{4}{\pi} \right)^2 \right]} = 1.221259276996384 \times 10^3 \cdot \frac{\text{ft}}{\text{sec}} \quad (14)$$

Then tapping the energy pipe into a suitable transformer connected from the end of the pipe to the point 20.35432... feet down the pipe should yield free energy. Also, dividing the above velocity by 4 times the hyperfine wavelength of hydrogen yields 440.914687... Hz.

$$\left[\left[\frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} \right] \cdot 4 \right] \cdot \frac{60 \cdot \text{Hz}}{\left[\left(\frac{4}{\pi} \right)^2 \right]} \cdot \left(\frac{1}{4 \cdot \lambda_H} \right) = 440.91468789330565 \cdot \text{Hz} \quad (15)$$

Finally, the quantum fine structure constant divided into 8 times the wavelength of the hyperfine wavelength of hydrogen yields the length of one side of the Great Pyramid at Giza equal to 759.1331295... feet.

$$8 \cdot \lambda_H \cdot \frac{1}{\alpha} = 759.1331295890332 \cdot \text{ft} \quad (16)$$

Divide that by $(1 + \text{atomic fine structure constant})$ yields 753.633599... feet.

$$\left(8 \cdot \lambda_H \cdot \frac{1}{\alpha} \right) \cdot \frac{1}{(1 + \alpha)} = 753.6335991232794 \cdot \text{ft} \quad (17)$$

Subtracting (17) from (16) we arrive at 5.499530... feet which is almost exactly twice the result of 4 times the wavelength of λ_H in eq. (2) above and is of no small significance due to its exact multiple by 8 of the hyperfine wavelength of hydrogen.

$$\left(8 \cdot \lambda_H \cdot \frac{1}{\alpha} \right) - \left[\left(8 \cdot \lambda_H \cdot \frac{1}{\alpha} \right) \cdot \frac{1}{(1 + \alpha)} \right] = 5.499530465753769 \cdot \text{ft} \quad (18)$$

$$\text{where, } \lambda_K \cdot 2 = 5.53966248133657 \cdot \text{ft}$$

Eq. (18) above proves the atomic fine structure constant was incorporated into the geometric design of the Great Pyramid so as to connect the design to the fundamental quantum structure of the universe.

Also, it is of interest that the thickness of the limestone sheathing blocks were very close to 100 inches and (11) yields 98.991548383... inches.

$$\left[\frac{\lambda_H(4) \cdot (3)}{(1 + \alpha)} \right] = 98.99154838356748 \cdot \text{in} \quad \left[\frac{\lambda_H(4) \cdot (3)}{(1 + \alpha)} \right] = 8.249295698630622 \cdot \text{ft} \quad 19)$$

It is also of interest that multiplying the golden ratio (4/pi all squared) in Hz units by (16) of one side length divided by 1 + α of the Great Pyramid yields an acoustic wave speed of 1221.7447... feet per second, very near the value arrived at in the previous post of 1221.2592... feet per second of (14) also involving the quantum fine structure constant.

$$\frac{8 \cdot \lambda_H}{(1 + \alpha)} \cdot \frac{1 \cdot \text{Hz}}{\alpha} \cdot \left(\frac{4}{\pi} \right)^2 = 1.221744772732893 \times 10^3 \cdot \frac{\text{ft}}{\text{sec}} \quad 20)$$

It is worth noting that a 1 mile distance divided by 33 yields the whole number 160 exactly, thus fixing 33 as fundamental to surveying in general.

Of special interest regarding the induction of free energy, equations (13), (14) and (15) above suggest that 60 Hz is fundamental to the nature of the quantum connection to the hyperfine frequency of the hydrogen atom as well as the atomic fine structure constant. Then it is no surprise that the induction from energy space at 60 Hz is mistaken for contact from power lines during electrocution events while installing antenna masts even though no such direct contact was made. Also, the induced power is not taken from power lines, but from energy space itself. There have been reports of individuals who were taking energy out of the air with devices installed in their attic and the power company sued them and made them remove those devices with the promise of not ever divulging the design. I suggest the energy pipe design outlined above could be just such a working design. Testing of the design may be worthwhile.

The use of 60 Hz in the distribution of power may be of benefit to the power companies since it may provide the most efficient frequency for transmission of power. In fact, induced quantum free energy at that frequency may aid the service overall.

I cannot help but wonder if Nikola Tesla knew of this when he designed the generators in 1896 for the Niagara Falls generating plant.

Modulating his (Tesla) coils at 60 Hz may have facilitated the transmission of power over great distances since the electromagnetic standing waves could have self induced energy from energy space at the quantum fundamental 60 Hz rate. Tesla's Colorado Springs experiments with power transmission through the air was reported to have been quite successful.

If we examine eq. (13) above for the nature of the quantum fine structure constant, we find that the quantum fine structure constant is related to the natural logarithm. It will be useful to look at the equations as not having the units of length applied but numerically only.

$$\begin{array}{cc} \mathbf{a} & \mathbf{b} \\ \ln\left(\frac{20.354321283273073}{4}\right) = 1.6269988762984 & \text{and } \frac{20.354321283273073}{4 \cdot \pi} = 1.61974542275674 \end{array} \quad 21)$$

Subtracting **b** from **a** we have:

$$\ln\left(\frac{20.354321283273073}{4}\right) - \frac{20.354321283273073}{4 \cdot \pi} = 7.253453541699484 \times 10^{-3} \quad 22)$$

where the atomic fine structure constant is: $\alpha = 7.29735308 \times 10^{-3}$

This suggests that there is a fundamental numerical dimensional construct to the universe since the cubit is very close to being numerically equal to 20.354321283273073

The expression 4 times π is frequently used in field equations for electrostatic and magnetic force fields as well as electromagnetic radiation. It applies to the long cubit as well. For example:

$$4 \cdot \pi \cdot \left(\frac{4}{\pi}\right)^2 \quad \text{expands to} \quad \frac{64}{\pi} = 20.371832715762604 \approx \text{long cubit if number is expressed in inches.} \quad 23)$$

Further, carrying out the expansion yields a binary form that lends itself to computer code.

$$\frac{64}{\pi} \cdot \left(\frac{4}{\pi}\right)^2 \quad \text{expands to} \quad \frac{1024}{\pi^3} = 33.02557125959628 \approx \text{the 33 feet of the chain used to survey our capital of Washington, D. C.} \quad 24)$$

where; $2^{10} = 1.024 \times 10^3$ which is very common in computer binary format and $4/\pi$ all squared is the pyramid golden ratio. 25)

The expression of 4 times π is equivalent to 2 times a unit wavelength (circumference) where each unit wavelength is expressed as 2 times π . Then the cubit is based on the fundamental geometric nature of π as well as the golden ratio $(4/\pi)^2$. Also, the golden ratio divided into 4 times the fundamental wavelength of the fine structure radiation of hydrogen is applicable to the long cubit inclusive of the atomic fine structure constant as shown frequently in several of the above equations.

The Electrogravitational Connection Is Fundamental To The Great Pyramid At Giza

The square root of the fine structure constant expressed in terms of meter/second units can be set equal to what I have termed in my research as "The least quantum velocity". This is usually designated by the term v_{LM} as shown below.

$$v_{LM} := (\alpha)^{\frac{1}{2}} \cdot \frac{m}{s} \quad \text{or} \quad v_{LM} = 0.085424546121124 \frac{m}{s} \quad (26)$$

It has been established in contemporary science that the speed of light in local space is the absolute maximum limit for matter in all forms. In my theory of "**Electrogravitation As A Unified Field Theory**", the nature of the quantum realm velocity is separated into the least quantum and the maximum quantum velocities, equivalent to the least quantum velocity being taken as group velocity and the maximum quantum velocity being taken as the phase velocity. This assigns the geometry of a waveguide to the interaction of particles in the quantum energy space which is the action space of the non-local realm. The waveguide equation exists as:

$$v_p := \frac{c_{vel}^2}{v_{LM}} \quad \text{where,} \quad v_p = 1.052104131126983 \times 10^{18} \frac{m}{s} \quad (27)$$

Then it is established that the phase velocity action force is extremely fast compared to the group velocity. It has been established by my experimental testing that the group velocity exists as a circular field moving around the axial arrow of the phase velocity. In fact, the phase velocity v_p can be applied directly to the direction of the magnetic flux field lines which themselves rotate around the central axis of those field lines at a velocity equal to the group velocity v_{LM} . Due to the uncertainty principle, on the quantum scale, the electrogravitational action has the probability of nearly instantaneous interaction in an infinite number of directions at any given time. Waveguide action also applies to quantum particles concerning group and phase velocity.

Dividing v_{LM} by the hyperfine wavelength of hydrogen λ_H the electrogravitational connection to the Great Pyramid is established as follows:

$$f_L := \frac{v_{LM}}{\lambda_H} \quad \text{where,} \quad f_L = 0.404738389563331 \cdot \text{Hz} \quad (28)$$

Then: $\frac{f_L \cdot 8}{\alpha \cdot (1 + \alpha)} = 440.49535545909885 \cdot \text{Hz}$ It is formally established that v_{LM} is connected directly to the Great Pyramid geometric construct. (29)

QED

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which is very close to the result of eq. 15 of:

$$\left[\left[\frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} \right] \cdot 4 \right] \cdot \frac{60 \cdot \text{Hz}}{\left[\left(\frac{4}{\pi} \right)^2 \right]} \cdot \left(\frac{1}{4 \cdot \lambda_H} \right) = 440.91468789330565 \cdot \text{Hz} \quad 30)$$

Then the electrogravitational velocity v_{LM} is also directly connected to the geometry of the Great Pyramid and thus to the gravitational field of the Earth and to the universe as a whole.

Below is a link to a windows media movie (WMV) that demonstrates the experimental test I personally conducted that proves the existence of the least quantum velocity v_{LM} and how it is related to a chiral rotation around the axis of a magnetic field.

<http://www.electrogravity.com/BMRT/BalMagResTests.wmv>

There is also a demonstration that was done by Michael Faraday which demonstrated a motor action which rotates a vertical current carrying wire arranged inline with a magnetic field wherein that wire rotates at a fixed rate slowly around the axis of the magnetic field of the vertical bar magnet. It suggests to me that the constant rate of rotation is set equal to following the least quantum velocity as outlined above.

<http://www.electrogravity.com/FARADAY/FARMOT.mpg>

The video commentary suggests that Faraday "invented the electric motor" but he actually proved the existence of the least quantum velocity! How could he and other observers have known otherwise since quantum field theory was not even thought of yet.

It is also of interest that the rate of rotation of the Earth has a part to play in the 60 Hz frequency related to the Great Pyramid and the surveyors chain of 33 feet.

In a day, the rotation period of the Earth: $E_{DP} := 3600 \cdot \text{sec} \cdot 24$ $E_{DP} = 8.64 \times 10^4 \text{ s}$ 31)

From eq. 15 above, the Grand Gallery frequency is derived as:

$$f_{GG} := \left[\left[\frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} \right] \cdot 4 \right] \cdot \frac{60 \cdot \text{Hz}}{\left[\left(\frac{4}{\pi} \right)^2 \right]} \cdot \left(\frac{1}{4 \cdot \lambda_H} \right) \quad f_{GG} = 440.91468789330565 \cdot \text{Hz} \quad 32)$$

Then a *Master Multiplier* based on the period of the Earth's rotation can be derived as:

$$MM := E_{DP} \cdot f_{GG} \quad MM = 3.80950290339816 \times 10^7 \quad 33)$$

Then a certain "Base_f frequency" can be derived related to the hyperfine frequency of hydrogen and the Master Multiplier as follows:

$$\text{Base}_f := f_{\text{H}}(\text{MM})^{-1} \cdot (1 + \alpha)^{-1} \quad \text{Base}_f = 37.01573868913121 \cdot \text{Hz} \quad (34)$$

$$\text{Base}_f \cdot \left(\frac{4}{\pi}\right)^2 = 60.007655318052024 \cdot \text{Hz} \quad \text{which is almost exactly powerline frequency!} \quad (35)$$

Finally, dividing the Base_f frequency into the air velocity of eq. 7 above related to the Great Pyramid's construct, we arrive very close to the 33 feet of the survey chain mentioned above.

$$\frac{v_{\text{air}}}{\text{Base}_f} \cdot (1 + \alpha)^{-1} = 33.00608919339569 \cdot \text{ft} \quad (36)$$

Further: $60 \cdot \text{Hz} \cdot \text{Base}_f^{-1} = 1.620932125761347$ and $\left(\frac{4}{\pi}\right)^2 = 1.621138938277405$ (37)

A fundamental electrogravitational frequency f_{LM} may be found related to the lowest quantum velocity and the mass of the electron. The electron is considered herein to be the most stable and fundamental particle for this purpose.

$$m_e := 9.109389700 \cdot 10^{-31} \cdot \text{kg}$$

electron rest mass

$$h := 6.626075500 \cdot 10^{-34} \cdot \text{joule} \cdot \text{sec}$$

Plank quantum constant

$$a_0 := 5.291772490 \cdot 10^{-11} \cdot \text{m}$$

Bohr atomic radius of n1

$$G_k := 6.672590000 \cdot 10^{-11} \cdot \frac{\text{newton} \cdot \text{m}^2}{\text{kg}^2}$$

Universal constant of gravitation

$$E_{\text{vLM}} := m_e \cdot (v_{\text{LM}})^2 \quad \text{then,} \quad E_{\text{vLM}} = 6.647443298421527 \times 10^{-33} \text{ J} \quad \text{Least quantum energy} \quad (38)$$

Then the electrogravitational least quantum non radiating frequency is:

$$f_{\text{LM}} := E_{\text{vLM}} \cdot h^{-1} \quad \text{where,} \quad f_{\text{LM}} = 10.032248045500731 \cdot \text{Hz} \quad (39)$$

and there is also the Great Pyramid quantum connection to f_{LM} as follows:

$$\frac{f_L \cdot 8 \cdot \pi}{(1 + \alpha)^2} = 10.02533453579943 \cdot \text{Hz} \quad 40)$$

Then it is established a likely connection of the least quantum electrogravitational frequency f_{LM} to the geometry of the Great Pyramid as well as the rest of the parameters such as the atomic fine structure constant, the hyperfine frequency of the hydrogen atom, etc.

The Einstein Field Equation of General Relativity may be examined in light of the units of the terms by going to the following website:

<http://physics.stackexchange.com/questions/34977/what-are-the-units-of-the-quantities-in-the-einstein-field-equation>

There you will see the K constant term: $\frac{8 \cdot \pi \cdot G}{c^4}$ 41)

Computing its actual magnitude and units:

$$K_G := \frac{8 \cdot \pi \cdot G_k}{c_{vel}^4} = 2.076115391974129 \times 10^{-43} \cdot \frac{1}{N} \quad 42)$$

This is a very small number and as a result the T_{uv} term in the Einstein Field Equation has to be extremely large to effect a change of noticeable amount.

A change to the constant term K is suggested wherein the c speed of light term is replaced by the v_{LM} quantum electrogravitational velocity term and the 8π term is dropped entirely.

$$K_{EG} := \frac{G_k}{v_{LM}^4} = 1.253036495711538 \times 10^{-6} \frac{1}{N} \quad \text{which in magnitude only is very much like the magnetic permeability constant } \mu_0. \quad 43)$$

It turns out that this constant form fits perfectly into the electrogravitational equation as follows:

SYSTEM 1	SYSTEM 2
$F_{EG} := \left(\frac{h \cdot f_{LM}}{a_0} \right) \cdot \left(\frac{G_k}{v_{LM}^4} \right) \cdot \left(\frac{m_e \cdot v_{LM}^2}{a_0} \right) = 1.977291388968518 \times 10^{-50} N \quad 44)$	

Notice that I have chosen to use two different forms of the least quantum electrogravitational energy in eq. 44 above so as to show the magnitudes and units work together flawlessly.

The above equation only *resembles* the standard Newtonian gravitational equation in its appearance but the equation represents the **quantum entanglement of the energy terms** of SYSTEM 1 and SYSTEM 2 with each other in quantum fashion. Neither system can be isolated from the other no matter how far apart and they communicate with each other non-locally, effectively instantaneously.

Compare the above result with the standard Newtonian force equation:

$$F_N := \frac{G_k \cdot m_e^2}{a_o^2} = 1.977291388968519 \times 10^{-50} \text{ N} \quad 45)$$

It is immediately apparent the quantum format F_{EG} in magnitude and units agrees exactly with the Newtonian form.

If we use the K term in equation (43) above in the Einstein Field Equation the T_{UV} term can have the Newton per meter squared terms be much less in magnitude to cause curvature.

However, the creation of a "Fabric Of Spacetime" that goes along with the curvature concept makes me come to the following conclusion: The mathematics of General Relativity is indeed beautiful and very complex but the physics is not very good. In fact, it is fatally flawed in that it requires the physical creation of a medium to carry the action of gravitation. This comes from a misunderstanding of the nature of propagation of light. Light does not need a medium to travel in since it creates its own medium as it goes from one stationary point in space and then jumps in quantum fashion to the next. The product of its frequency and wavelength in each point is a constant and thus so is the apparent overall speed. Light is therefore quanta and so is its method of travel quantum in its action. Light only appears to travel in a medium because bulk quantities of photons do form observable 'waves' as they follow the probability quantum phase mechanics well described by the self-same mathematics of probability.

The inability of scientific endeavor to unite Quantum Mechanics and General Relativity is based on the fact that General Relativity requires a medium of travel and action, which it creates in the required mechanics of the field, while quantum mechanics does not require a medium. There is no such medium for action as there is no ether or aether. This is the fundamental reason General Relativity creates a "*fabric of spacetime*" for its construct as an ether-field. As a result, General Relativity should be relegated to the trash can of "ideas that failed big." Therefore, let us move on to science that produces meaningful output in the computations and workable real-world mechanics.

I have digressed a bit by dwelling on my Theory of Electrogravitation as it relates to General Relativity and so let I will now return to the fascinating energy relationships built into the construction of the Great Pyramid at Giza.

The Grand Gallery Length Based On The Hyperfine Wavelength Of The Hydrogen Atom

The length of the Grand Gallery is based on what is called the "Sacred Cubit" which is equal to the circumference of the pillars of the temple at Jerusalem. The measurement was between 24.80 and 25.02 English inches where the mean average is 24.91 inches. See: p. 31 of "The Secrets of the Great Pyramid by Peter Tompkins.

The **Sacred Cubit** can be easily expressed as three times the hyperfine wavelength of the hydrogen atom as shown below.

$$\lambda_{SC} := 3 \cdot \lambda_H \quad \text{or,} \quad \lambda_{SC} = 24.928481166014567 \cdot \text{in} \quad \text{which is well within the actual measurement window.} \quad 46)$$

Further, we can set the length of the Grand Gallery based on the even length of 33 feet times 7 times 1 over $(4/\pi)$ squared.

$$\lambda_{GG} := 7 \cdot (33 \cdot \text{ft}) \cdot \left(\frac{4}{\pi}\right)^{-2} \quad \text{or,} \quad \lambda_{GG} = 142.49241354072757 \cdot \text{ft} \quad 47)$$

Note that:

$$\lambda_{GSC} := (33 \cdot \text{ft}) \cdot \left(\frac{4}{\pi}\right)^{-2} \quad \text{or,} \quad \lambda_{GSC} = 20.356059077246798 \cdot \text{ft} \quad 48)$$

Eqs. (7), (13) and (14) relate the above to 60 Hz as:

$$v_{\alpha} := \left[\left[\frac{\lambda_H \cdot (4) \cdot (3)}{(1 + \alpha)} \right] \cdot 4 \right] \cdot \left[\frac{60 \cdot \text{Hz}}{\left(\frac{4}{\pi}\right)^2} \right] \quad \text{or,} \quad v_{\alpha} = 1.221259276996384 \times 10^3 \cdot \frac{\text{ft}}{\text{s}} \quad 49)$$

Finally:

$$f_{\text{powerline}} := \frac{v_{\alpha}}{\lambda_{GSC}} \quad \text{or,} \quad f_{\text{powerline}} = 59.99487780822272 \cdot \text{Hz} \quad 50)$$

Then the hyperfine wavelength of hydrogen, the square of $(4/\pi)$, the Masonic surveying measuring chain of 33 feet, as well as the number 7 relate the 60 Hz power line frequency as fundamental to the dimensions of the Grand Gallery as well as the air velocity pertaining to the same.

It should be noted also that there are 27 slots along the lower skirt of the corridor of the Grand Gallery which allow for 26 intervals between the slots. Then it is possible to find the length of each interval by dividing the total length of the working area length by 26.

$$\lambda_{\text{slot}} := \frac{\lambda_{\text{GG}} \cdot (1 + \alpha)}{26} = 5.520470422829063 \cdot \text{ft} \quad 51)$$

Dividing by 8 we arrive at a value very close to the hyperfine wavelength of the hydrogen atom.

$$\frac{\lambda_{\text{slot}}}{8} = 8.280705634243594 \cdot \text{in} \quad \text{where,} \quad \lambda_{\text{H}} = 8.309493722004856 \cdot \text{in} \quad 52)$$

Please note that in eq. (46) and (47) above, there exists a connection to the atomic fine structure constant as:

$$\frac{\lambda_{\text{SC}}}{(2 \cdot \lambda_{\text{GG}})} = 7.28941765698794 \times 10^{-3} \quad \text{where,} \quad \alpha = 7.29735308 \times 10^{-3} \quad 53)$$

So again, we find the quantum fine structure at work in the design of the Great Pyramid at Giza.

The Grand Gallery Stepped Sides And The Phase Change Per Step

The Grand Gallery has 7 steps up the side of the walls called corbels. The bottom width is 3 cubits and the top width is 2 cubits. If we assign 1 wavelength per cubit, then the change over one cubit for each 1/7 cubit is 360 degrees divided by 7.

$$\frac{360 \cdot \text{deg}}{7} = 51.42857142857143 \cdot \text{deg} \quad \text{and} \quad \text{atan}\left(\frac{4}{\pi}\right) = 51.85397401277745 \cdot \text{deg} \quad 54)$$

$$\text{where also:} \quad \frac{360 \cdot \text{deg}}{7} \cdot (1 + \alpha) = 51.80386387268571 \cdot \text{deg} \quad 55)$$

Then, even in the steps of the corbels in the Grand Gallery we see the atomic fine structure constant as well as the basic geometry of the pyramid expressed as $4/\pi$.

In the Queens Chamber we find 4 steps with the bottom step of 3 cubits and the top step of 1 cubit. then a total of 2 cubits in 4 steps yields 2 divided by 4 or 720 degrees divided by 4.

$$\frac{720 \cdot \text{deg}}{4} = 180 \cdot \text{deg} \quad \text{which is a half cycle or } 1/2 \text{ a wavelength.} \quad 57)$$

This reminds me of what is called in radio engineering a master oscillator/power amplifier which is a two stage transmitter of the most simple form. The master oscillator would be the Queen's Chamber and the power amplifier the King's Chamber.

The angle of rise ≈ 26.2 degrees also works into the geometry related to $4/\pi$.

The exact angle of rise is quite likely equal to:

$$\phi_{\text{GalRise}} := 26.247 \cdot \text{deg} \quad \tan(\phi_{\text{GalRise}}) = 0.493080334309546 \quad 58)$$

$$\lambda_{\text{slot}} \cdot \tan(\phi_{\text{GalRise}}) \cdot (1 + \alpha) = 32.902788660678 \cdot \text{in} \quad 59)$$

and: $4 \cdot \lambda_{\text{H}} = 33.23797488801942 \cdot \text{in} \quad 60)$

$$4 \cdot \lambda_{\text{H}} - [\lambda_{\text{slot}} \cdot \tan(\phi_{\text{GalRise}}) \cdot (1 + \alpha)] = 8.513730174472212 \times 10^{-3} \cdot \text{m} \quad 61)$$

where the electrogravitational wavelength is:

$$\lambda_{\text{LM}} := v_{\text{LM}} \cdot f_{\text{LM}}^{-1} \quad \text{or,} \quad \lambda_{\text{LM}} = 8.514995416150521 \times 10^{-3} \text{ m} \quad 62)$$

Then a differential of wavelength is generated between four times the hyperfine wavelength of hydrogen λ_{H} and the length related to the angle of rise of the Grand Gallery as shown above; which is as a result, equal to the quantum electrogravitational wavelength as derived by my theory of "**Electrogravitation As A Unified Field Theory.**" This differential of wavelength taps into and also directly interacts with the quantum gravitational field of not only the Earth but the universe as well.

The Great Pyramid at Giza is not only a masterpiece of engineering in the physical sense but also in the profound scientific sense. It displays knowledge far beyond the ability of the Egyptians in the time of the Pharaohs but even contemporary mechanical and scientific engineering of today.

If the Egyptians could cut hard granite and limestone with such precision and then transport blocks weighing from 20 to 200 plus tons in such a short time, why did they force the Jewish slaves into hard labor making bricks out of straw and mud? Why is there no mention at all of the pyramids in the Holy Bible or in any religious texts? And yet, the pyramids must have been there for the seeing by all who happened by them. I think that may have been why the Library of Alexandria was burned and all of the contents destroyed that were not taken away to Rome and other places. What a terrible loss that must be for us all.

I suspect that beings of the sky built the pyramids and then there was a war between the beings that caused the destruction of not only Atlantis and most of the sites around the world that were highly evolved scientifically, but the remaining proof of who those beings were and what they could do to us if they wanted to. The winners of that universal battle are still in control and very much able to do to us anything they choose. That explains why NO country on Earth will testify to the factual data that flying saucers exist: Now that is power!

The Outer Structure of the Great Pyramid at Giza

Presently, there are 201 stepped tiers up the side of the great pyramid. For this paper, an additional 8 steps are used for completing the required steps that would exist if the pyramid were not truncated at the top. Then the horizontal (radial) distance of each step based on $\pi/4$ times the calculated height of one step yields the width of each step. Multiply this by 2 to arrive at the distance each step of rise would subtract from the total step length along the horizontal.

$$S_L := \frac{P_H}{209} \cdot \left(\frac{\pi}{4}\right) \cdot 2 \quad \text{or,} \quad S_L = 3.632215931048006 \cdot \text{ft} \quad (63)$$

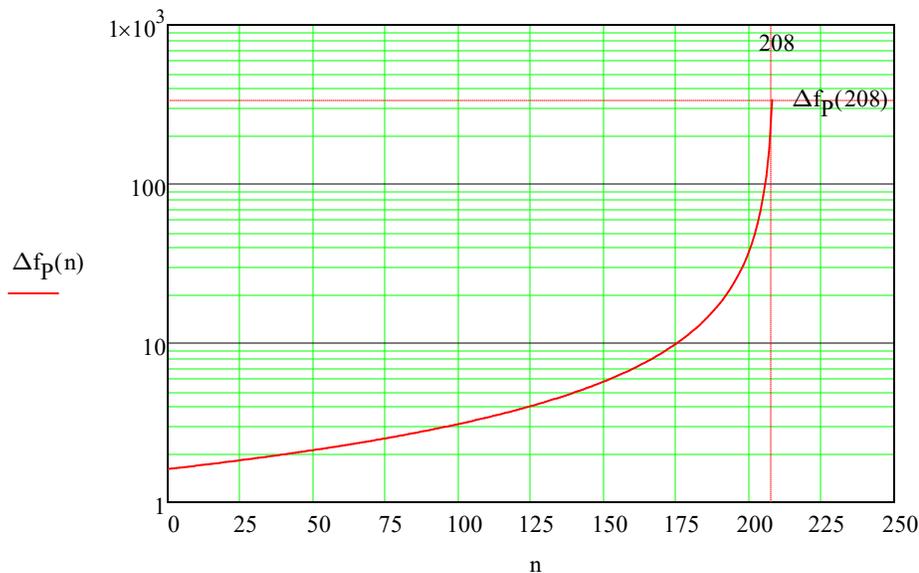
Note that the distance subtracted from each tier per step of rise is extremely close to the unitless form of the golden ratio squared plus one.

It is now possible to do a summation to find the frequencies related to each step length based on a constant velocity divided by the changing step lengths.

Let: $n := 0, 1..208$ Then a range of frequencies based on a constant air velocity per horizontal step length can be calculated and graphed as below:

$$\Delta f_p(n) := \frac{v_{\text{air}}}{\left(\frac{\lambda_p}{4} - S_L \cdot n\right)}$$

The frequency increases logarithmically per step increase as shown by the accompanying chart.



The frequency of the King's Chamber is arrived at by dividing the air velocity by the key length which itself is 4 times the hyperfine wavelength of the hydrogen atom.

$$f_{\text{king}} := \frac{v_{\text{air}}}{\lambda_K} \qquad f_{\text{king}} = 444.30875702602145 \cdot \text{Hz} \qquad 64)$$

The 208th step has a frequency of: $\Delta f_P(208) = 338.81803809997587 \cdot \text{Hz}$ 65)

The maximum frequency of 338.81803... is related to the King's chamber frequency as:

$$\frac{f_{\text{king}} \cdot (2)}{\Delta f_P(208)} = 2.622698363508723 \qquad \text{which is extremely close to the square of the golden ratio!!} \qquad 66)$$

where squaring the golden ratio is: $\Phi_G^2 = 2.628091457199191$ 67)

The very last step (208) shows a rapid increase in frequency which suggests that an extremely precise increase in height less than a full (209) step would allow for an extreme increase in frequency which could approach the hyperfine frequency of the atomic hydrogen radiation.

Let: $n1 := 208.9999, 208.9999000001.. 208.99999976146393$

$$\Delta f_{P1}(n1) := \frac{v_{\text{air}}}{\left(\frac{\lambda_P}{4} - S_L \cdot n1\right)} \qquad \Delta f_{P1}(n1) = \begin{array}{|l} 3.388180381369694 \cdot 10^6 \\ 3.388183770197325 \cdot 10^6 \\ 3.388187158161911 \cdot 10^6 \\ 3.388190547003099 \cdot 10^6 \\ 3.388193935851066 \cdot 10^6 \\ 3.388197324705812 \cdot 10^6 \\ 3.388200713567337 \cdot 10^6 \\ 3.388204102435641 \cdot 10^6 \\ 3.388207491310725 \cdot 10^6 \\ 3.388210880192587 \cdot 10^6 \\ 3.38821426821139 \cdot 10^6 \\ 3.388217657106809 \cdot 10^6 \\ 3.388221046009006 \cdot 10^6 \\ 3.388224434917983 \cdot 10^6 \\ 3.38822782383374 \cdot 10^6 \\ \dots \end{array} \cdot \text{Hz} \qquad 68)$$

The difference in step length from a full length at step 209 (209 resulting in a divide by zero), is

$$S_L \cdot (209 - 208.99999976146393) = 2.640831486650391 \times 10^{-7} \cdot \text{m} \quad 69)$$

As an example, a result of zero is equivalent to infinite frequency result.

$$\frac{\lambda_p}{4} - S_L \cdot 209 = 0 \text{ m} \quad \text{dividing velocity by a length approaching zero is a frequency approaching infinity.} \quad 70)$$

It immediately becomes apparent that a very finely machined device in the nanometer range would have to be at the GP pinnacle if the frequency was to be in the range of the hyperfine frequency of the hydrogen atom. Perhaps a finely lined crystal grid would be used to sum up power generated by each point in that nanometer dimension.

The exact wavelength in the air medium for the step at the hyperfine frequency of hydrogen is:

$$\frac{v_{\text{air}}}{f_H} = 2.640831688872854 \times 10^{-7} \text{ m} \quad 71)$$

Then a symbolic Mathcad derivation of the required portion leading up to a 209th step is:

$$S_L \cdot (209 - \text{step}_x) = \frac{v_{\text{air}}}{f_H} \quad \text{has solution(s)} \quad \frac{209 \cdot S_L - \frac{v_{\text{air}}}{f_H}}{S_L} = 208.99999976146393 \quad 72)$$

It is also possible that the top of the pyramid was meant to be completed by a precision cavity at the bottom of a flying saucer such that the bottom of the saucer was a finely tuned cavity which resonated with the hyperfine frequency of hydrogen. Then all of the energy of the pyramid would be available to actively use and/or charge the storage receptors of the saucer.

Then in conclusion, I think that enough proof has been presented herein to absolutely rule out the possibility that ordinary human beings created the pyramids of this world or the pyramids of any other worlds.

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An interesting and informative link to information on the Great Pyramid at Giza:

<http://www.gizapyramid.com/overview.htm>

The units pertaining to Einstein's General Theory of Relativity equation:

<http://physics.stackexchange.com/questions/34977/what-are-the-units-of-the-quantities-in-the-einstein-field-equation>