

# The final TOE summary

The true and final TOE (Theory of Everything) must encompass EVERYTHING (physics, math, bioscience, consciousness, and more). This summary will show its framework and the connections (unifications).

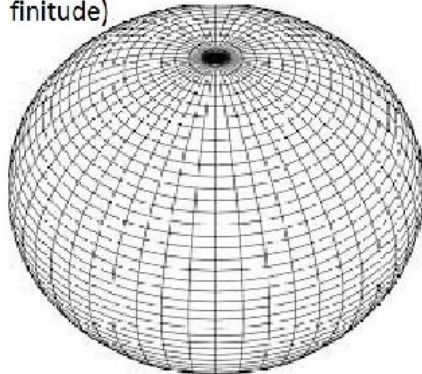
## One, the First principle: the principle of essence

First Principle: {The essence of THIS universe is 'NOTHINGNESS', and it must remain to be nothingness}

### Real/Ghost symmetry

The black spot is the Ghost POINT (an infinity)

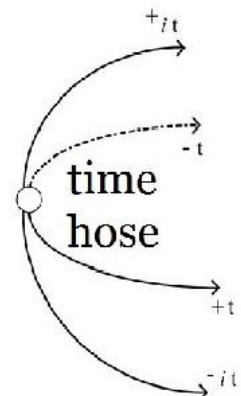
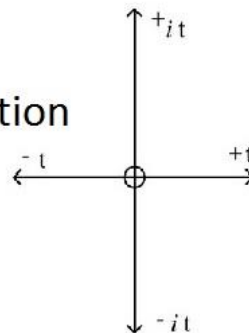
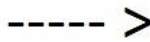
The entire Ball except the Ghost point is the real (matter) universe (a finitude)



At every time-t, it is in fact {timeless}, expressed by equation zero

$$\Delta S = N * C * (\Delta T) \\ = (i^{\wedge}n1, i^{\wedge}n2, i^{\wedge}n3) * C * (\Delta T)$$

manifestation



The 1<sup>st</sup> manifestation:

the time quanta,

time quanta iteration (forming time hose, a FRACTAL),

time hose spirals into a time-cone (4 spacetime dimensions + 7 inner dimensions).

Replying to @Tienzen and @notevenwrong

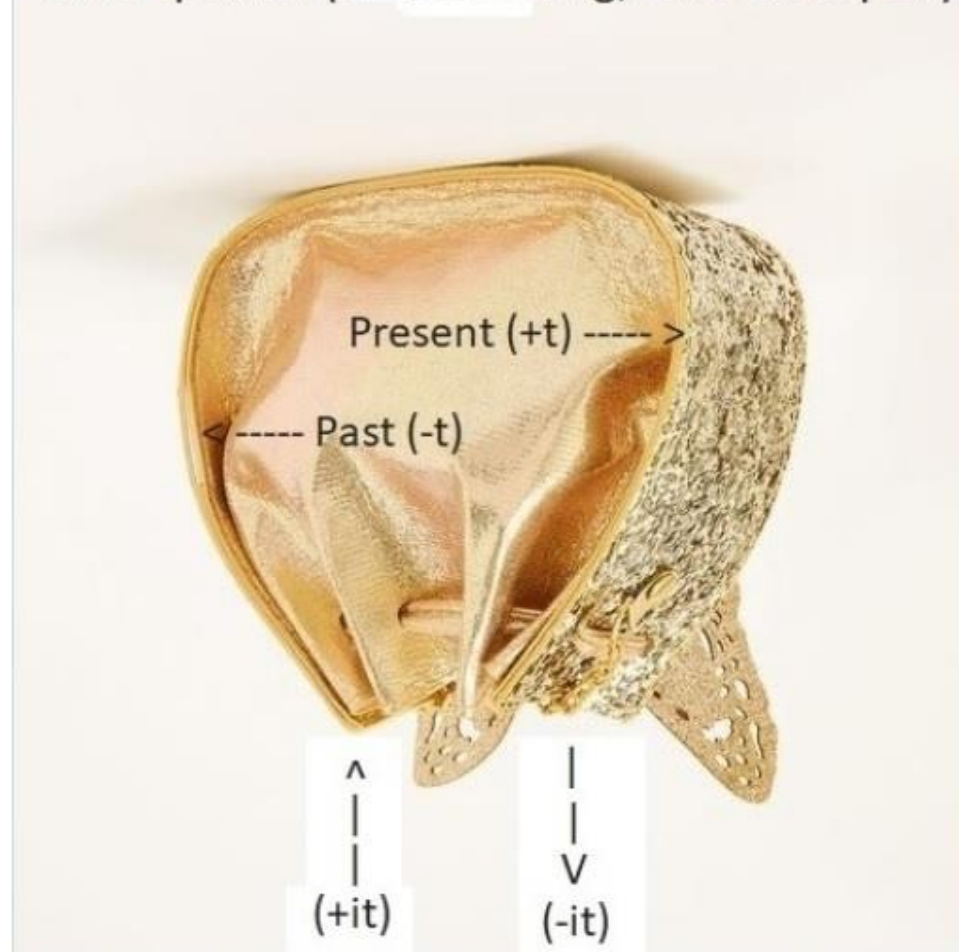
Space-time is physics.

Describing space-time with geometry of any kind is linguistics.

Using linguistics to GET physics: backwards but is better than nothing.

See the graph.

Time quanta (a pouch bag, one end open)



The opening connects to the GHOST point.  
The flow of (+it) to (-it) creates [(+t) and (-t)].  
Time quanta encompasses (+/-t; +/- it).

The current time quanta is connected to the previous one via imaginary time.



**Jeh Tween**  
@Tienzen

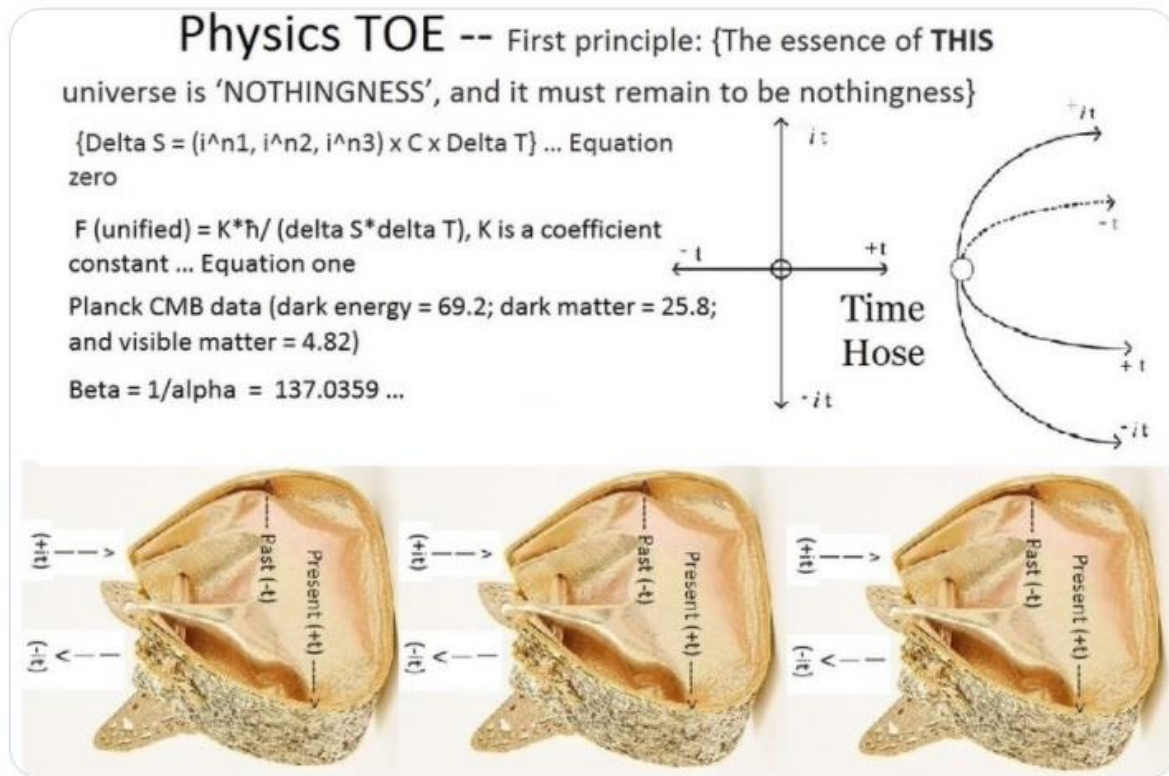
...

Replying to @Tienzen and @notevenwrong

Shut up and calculate:

With {Time quanta (a pouch bag, one end open)}, all nature constants (CC, Alpha, Cabibbo/Weinberg angles, Planck CMB data, Higgs boson mass, etc.) can be calculated.

See the graph below.



9:28 PM · Sep 26, 2021 · Twitter Web App

Replying to @notevenwrong

Good work, but too tortuous (long way ...)

Two points:

Quanta is a bag (not a point)

Now (+t) and past (-t) coexist in this bag at the same time

The creation of this bag [symmetry breaking from a ghost point (imaginary time (+/- it))]

So, this bag encompasses (+/- t, +/- it)

11:38 AM · Sep 12, 2021 · Twitter Web App

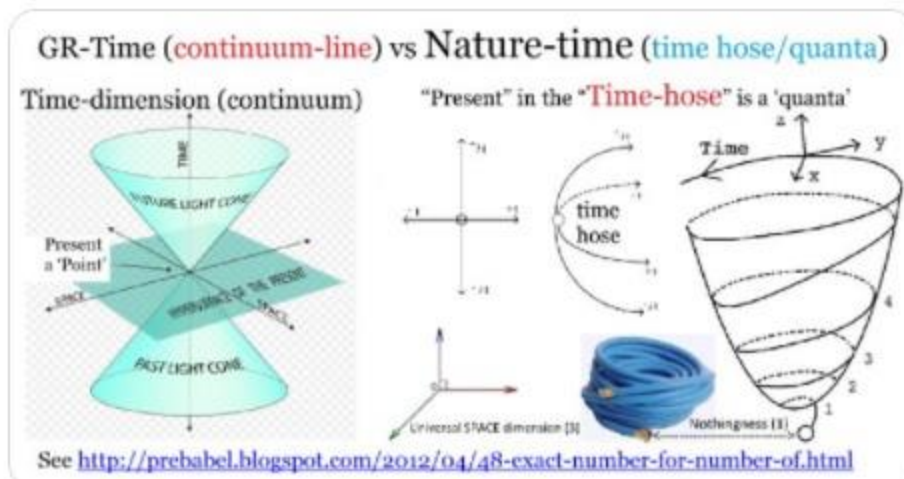


Jeh Tween @Tienzen · Sep 12

...

Replying to @Tienzen and @notevenwrong

Time quanta (a bag) consists of (+/- t, +/- it), rotating/spin (from ghost to real) defines the time-direction, which is not a line but spirals into a Archimedes spiral which defines the visible 3-D space.



Two, the 2<sup>nd</sup> principle, the principle of creation: Ghost Rascal creates Order (material universe, including lives) from total randomness (nothingness).



For Ghost rascal, see (<https://tienzen.livejournal.com/1026.html> or <http://prebabel.blogspot.com/2014/02/ghost-rascal-conjecture-and-ultimate.html> )

## Chaotic quantum actions converge to determined outcome

Ghost-rascal conjecture --- For a coin flipping game (head vs tail),  $T$  is the number times flip as one 'game',  $N$  is the number times that that 'game' is played. If  $T \geq 3$  and  $N \geq 10^{500}$ , then no amount of sabotage from a Ghost can change the outcome of this game.

With  $T = 3$  and get three games, as a compound game,

Game 1: (# \* \*)

Game 2: (\* # \*)

Game 3: (## \*)

This new compound game is, in fact, a glider of Conway's Life game which can be the base for building a Turing computer, and it has the following attributes.

i. It is time-independent, not created in time and will not be destroyed at the end of time.

ii. It is immutable; no amount of sabotage can change the outcome of this game. Furthermore, it is a 'concrete' thing, not a philosophical or theological 'speculation'.

iii. It can devour all types of order (systematic sabotage). That is, it can, in fact, puke up all types of order too.

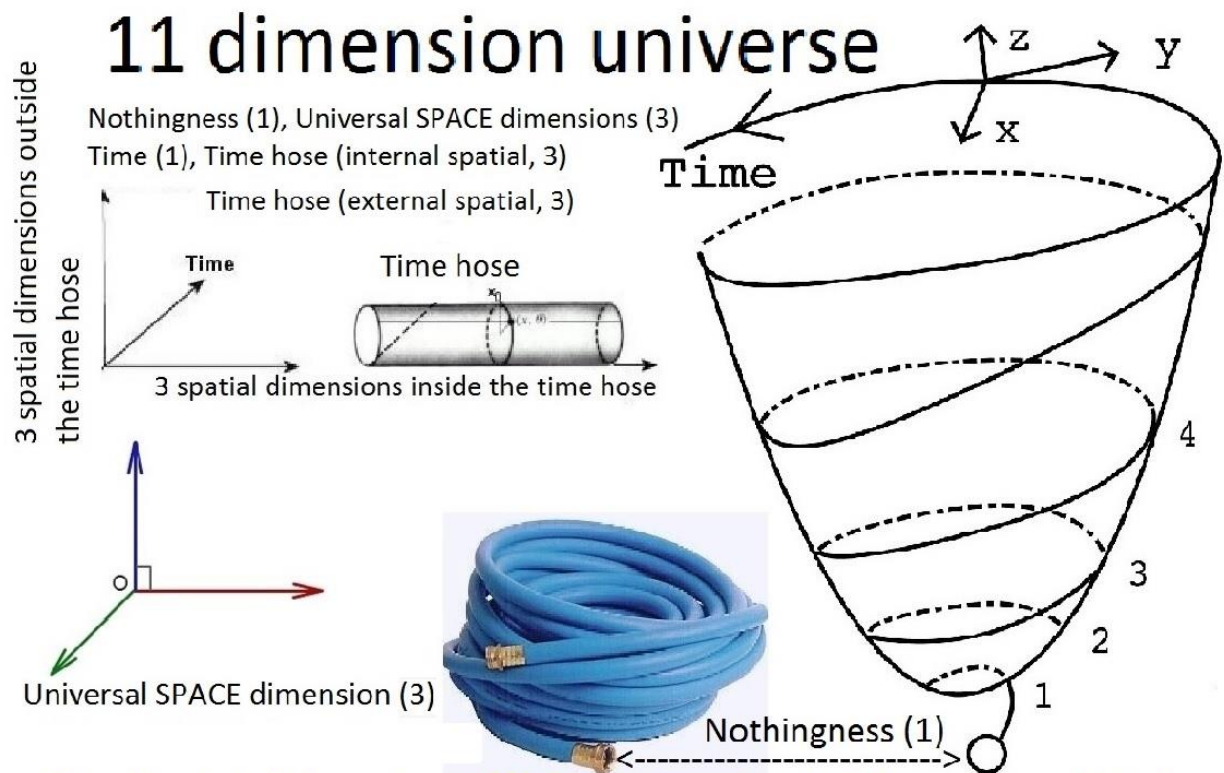
iv. The left-hand game (sabotaged by the Ghost, marked with a negative sign) is the 'source' of 'orderliness', not a true symmetrical partner of the right-hand game. That is, there is a right-hand-genesis which is similar to the baryogenesis (see <http://prebabel.blogspot.com/2013/12/baryogenesis-master-key-of-all.html> ).

See <http://prebabel.blogspot.com/2014/02/ghost-rascal-conjecture-and-ultimate.html>

Any structural (systematic) planned sabotages from the Ghost Rascal become the Order in the total randomness sea.

Three, manifestations:

The 2<sup>nd</sup> order manifestations: 11-dimension universe, the expanding universe, and the emergent unified force (leads to the uncertainty principle).



See <http://prebabel.blogspot.com/2012/04/origin-of-spatial-dimensions-and.html>

Every cross-section (cut at any given time-T), it needs 11 dimensions to identify.

3 universal space dimension to identify the location of the cut related to the time-hose cone.

3 spatial dimension to identify the POINT on the outside circle of the hose.

3 spatial dimension to identify the POINT on the inside circle of the hose.

1 dimension to identify the hollow space in the hose.

1 dimension to identify the DIRECTION of this point points to.

$$(3 + 3 + 3 + 1 + 1) = 11$$

For the Big-bang cosmology, the universe is \*finite\*, that is, it has a boundary (surface). Then,

- iii. Where is that boundary?
- iv. What is outside of that boundary?
- v. How to move that boundary to its outside?

When we answer the question iii, iv and v, we get the answers for the i. and ii automatically. Let me give some short answers here.

For Q iii --- the answer is \*Here\*.

For Q iv --- the answer is \*Next\*.

For Q v --- the answer is \*with  $\hbar$  (Planck constant)\*.

With these three answers, we derive the force equation:  
moving from {[Here (now), Now] to [Here (next), Next]} =  
{Delta S, Delta T} = (Delta S x Delta T);

$$\mathbf{F} = \hbar / (\Delta S \times \Delta T)$$

This is the force driving the universe accelerating outward. The details of this equation is available at

<http://tienzengong.wordpress.com/2013/09/25/dark-energy-mystery-no-more/>

See <http://prebabel.blogspot.com/2013/11/why-does-dark-energy-make-universe.html>

$$\mathbf{F} (\text{unified}) = K \hbar / (\Delta T * \Delta S)$$

K is a coupling constant,  $\hbar$  Planck constant, T time, S space. From this unified force equation, the uncertainty principle can be derived very easily.

$$\Delta P = F * \Delta T = K \hbar / \Delta S$$

$$\text{So, } \Delta P * \Delta S = K \hbar$$

Thus;

1. When,  $K \geq 1$ , then  $\Delta P * \Delta S \geq \hbar$
2. When  $K \sim 1$ , the uncertainty principle remains significant.
3. When  $K \ll 1$ , then uncertainty principle is no long important.

Four, the 3<sup>rd</sup> principle, Principle of confinement: to ensure any CREATION (by Ghost Rascal) cannot alter the previous creations at all levels.

Part 1: it is ensured via the fractal process (the similarity processes): all expansions (or new creations) follow a defined scaling rule.

Part 2: it is ensured via a double lock (some nature constants). First lock: {C, light speed;  $\hbar$ , Planck constant}. Second lock: Alpha (electron fine structure constant).

This principle governs the evolution of the universe.

The Unified force equation can be rewritten as:

$$XYZ = C; \quad (\text{a non-singular cubic polynomial})$$

$$\{X = \Delta T, Y = \Delta S, Z = F (\text{force}), C = \text{a constant}\}$$

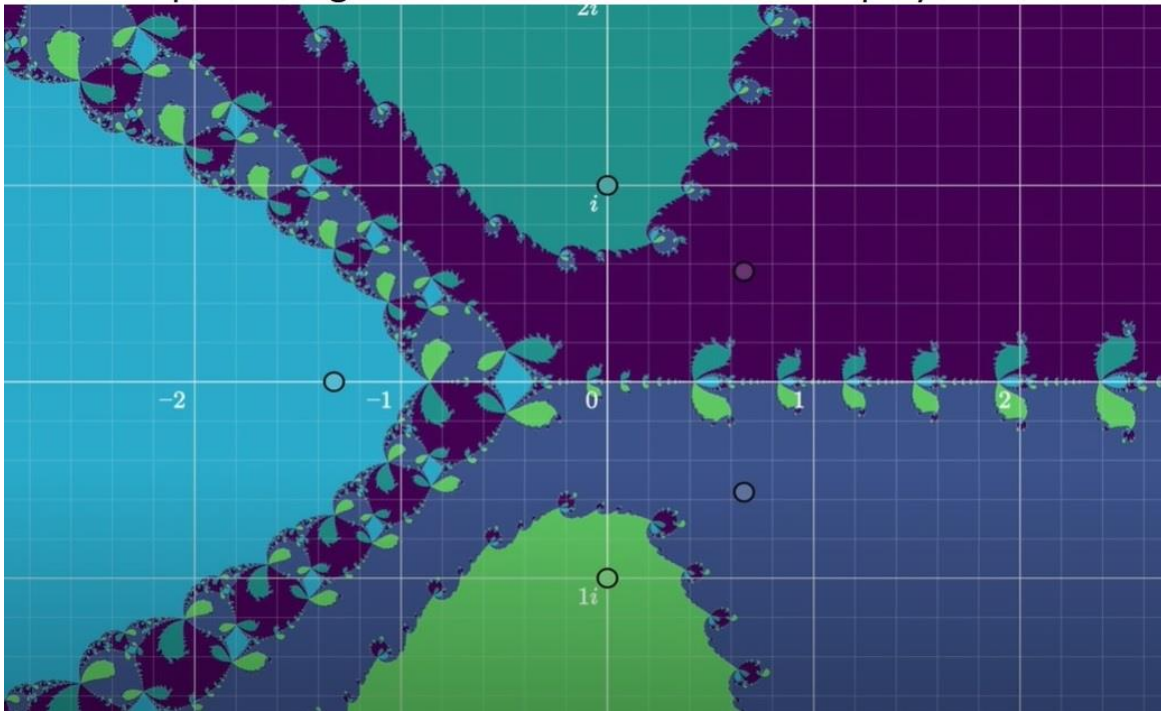
The phase diagram for the solution of a cubic polynomial is a FRACTAL (**representation for the iteration of the time quanta and as the manifestation of the 3<sup>rd</sup> principle**).

The creation and confinement are the two sides of the same Ghost Rascal coin. Ghost Rascal is an order creation agent while cannot change the essence (the total randomness /nothingness). Furthermore, all creations are confined via a scaling principle (the fractal), the principle of evolution.

That is, the unified force (expressed as fractal) is the governing force for the evolution of the universe: baryogenesis, dark energy and dark matter.



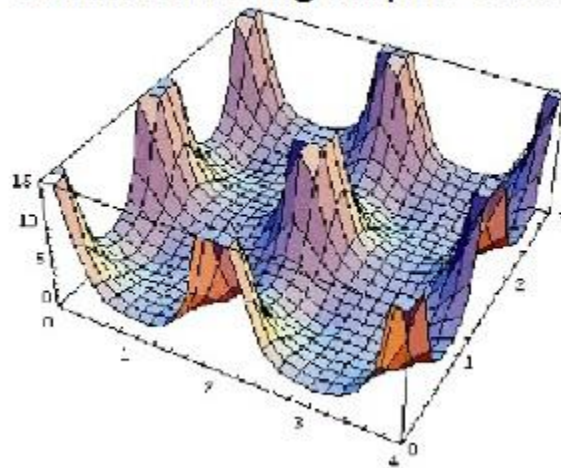
The phase diagram for the solution of a cubic polynomial

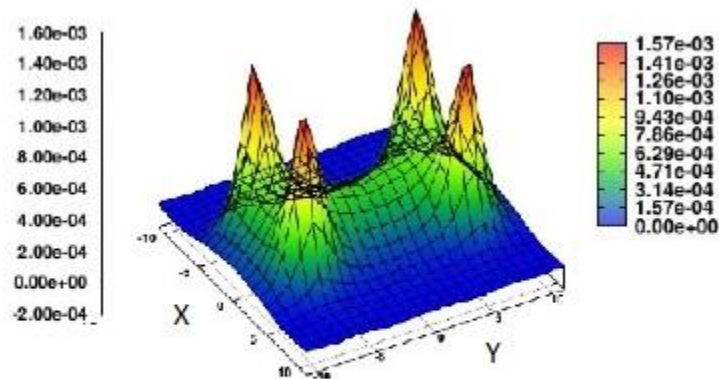


The 3rd order manifestations: fractal, elliptic curves, and torus (7 color/dimension representation)

Elliptic curve is a subset of the non- singular cubic polynomial.

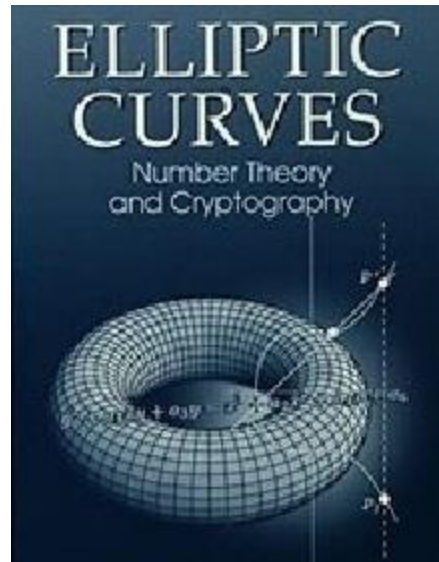
Parameterizing elliptic curves



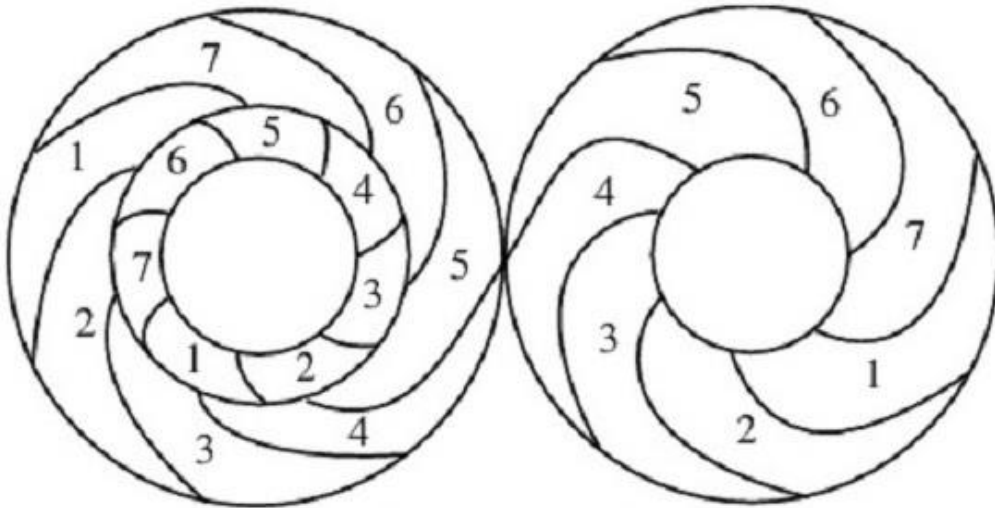


In lattice QCD calculations, four static quark-and antiquark charges are expressed with the above curve, an elliptic curve.

Torus is a subset of elliptic curves.



## Torus & the 7-color theorem



For a torus (with  $g = 1$ ), it takes 7 colors to distinguish all (uncountable) torus.

**If an entity is a torus, it has the ability to distinguish itself from all others.**

Heawood conjecture (Ringel–Youngs theorem)

$$\chi(g) = \left\lfloor \frac{1}{2} \left( 7 + \sqrt{48g + 1} \right) \right\rfloor,$$

Five, the 4<sup>th</sup> principle: the principle of individuality, each creation is distinguishable from all others.

That is, every creation (spacetime act) must be uniquely tagged (identified, such as with quantum numbers).

This principle is the base for the rising of high-level consciousness, the principle of consciousness. This tagging is also the base for entropy.

This principle is implemented via the torus 7 color theorem, being able to uniquely tag infinite uncountable torus with 7 colors.

That is, all creations (quarks, lives, math, etc.) must be a torus in essence, or describable with torus language.

This manifests as entropy and CC (Cosmological Constant).

In fact, quarks and leptons are described with 7-color LANGUAGE.

Table I: Prequark Representation for Leptons

Generation	Particle name	Prequark Representation	Colors	Electric Charge
1st	Electron	-(A, A, A1)	colorless	one (1)
1st	Neutrino	(V, V, V1)	colorless	0
2nd	Muon	-(A, A, A2)	colorless	one (1)
2nd	Muon neutrino	(V, V, V2)	colorless	0
3rd	Tau	-(A, A, A3)	colorless	one (1)
3rd	Tau neutrino	(V, V, V3)	colorless	0

Table II: Prequark Representation for Quarks

Generation	Particle name	Red	Yellow	Blue	Electric Charge
1st	Up quark	(V, A, A1)	(A, V, A1)	(A, A, V1)	2/3
1st	Down quark	-(A, V, V1)	-(V, A, V1)	-(V, V, A1)	-1/3
2nd	Charm quark	(V, A, A2)	(A, V, A2)	(A, A, V2)	2/3
2nd	Strange quark	-(A, V, V2)	-(V, A, V2)	-(V, V, A2)	-1/3
3rd	Top quark	(V, A, A3)	(A, V, A3)	(A, A, V3)	2/3
3rd	Bottom quark	-(A, V, V3)	-(V, A, V3)	-(V, V, A3)	-1/3

The quark color is identified by the seat's color, occupied by a minority prequark. For example, (V, A, A1) is red; (V, A, V1) is yellow. The prequarks (A or V) themselves are colorless.

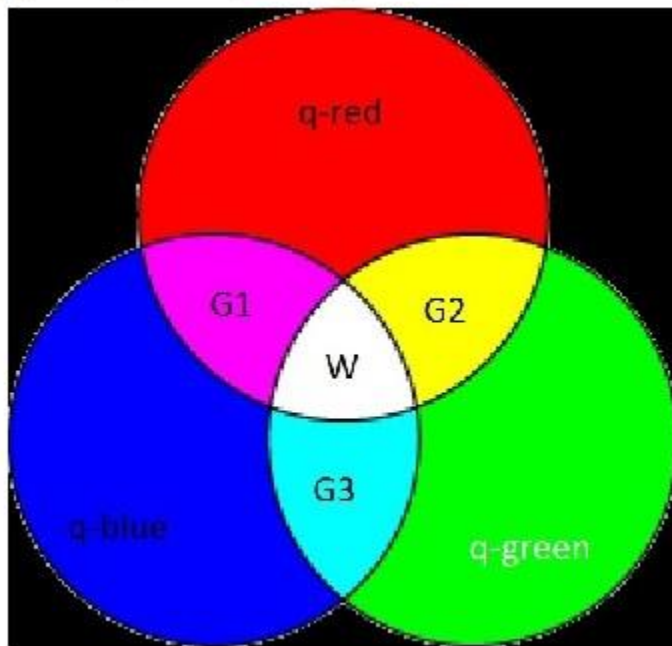
Quark colors obey the complementary rules: a)  $R + Y + B = \text{White (colorless)}$ , b)  $R + Y = \text{anti-B}$ , etc.

Angultron could be much more massive than quarks. So, it is called prequark (before quarks), not subquark.



## Matter structure

In the G-string model, the {generations} is in fact a color charge. Thus, the matter (one part of the [space, time, matter]) has a torus structure which is defined with 7 color-codes {q-red, q-blue, q-green, W (white), G1, G2, G3}.



This prequark representation (7-color language) is derived directly via the time quanta (encompassing 4-time dimensions, the equation zero).

# Universe structure of G-theory

$$\begin{aligned}\Delta S &= N * C * (\Delta T) \\ &= (i^{n_1}, i^{n_2}, i^{n_3}) * C * (\Delta T) \dots\dots\dots \text{Equation zero}\end{aligned}$$

The  $n_1$ ,  $n_2$  and  $n_3$  can take the numbers {1, 2, 3 or 4}. That is, this  $N$  (trait matrix) describes a 64 state set ( $4 \times 4 \times 4 = 64$ ). The inner-product (IP) of each this state can be of four values {+/- 1, +/- 3}.

That is, this inner product (IP) of  $N$  gives rise to two groups with two sub-groups each.

- a. Positive (32 dimensions)
  1. When IP = +1 (24 dimensions or states, Matter, 24 fermions)
  2. When IP = +3 (8 dimensions or states, Vacuum/space)
- b. Negative (32 dimensions)
  1. When IP = -1 (24 dimensions or states, Anti-matter, 24 anti-fermions)
  2. When IP = -3 (8 dimensions or states, Vacuum/space)

Why should  $n_1$ ,  $n_2$  and  $n_3$  take the numbers {1, 2, 3 or 4}? It is because that "time" has four dimensions in this AP, {+/- t, +/- it}.

**The matter/vacuum interaction will produce a 'vacuum boson'**

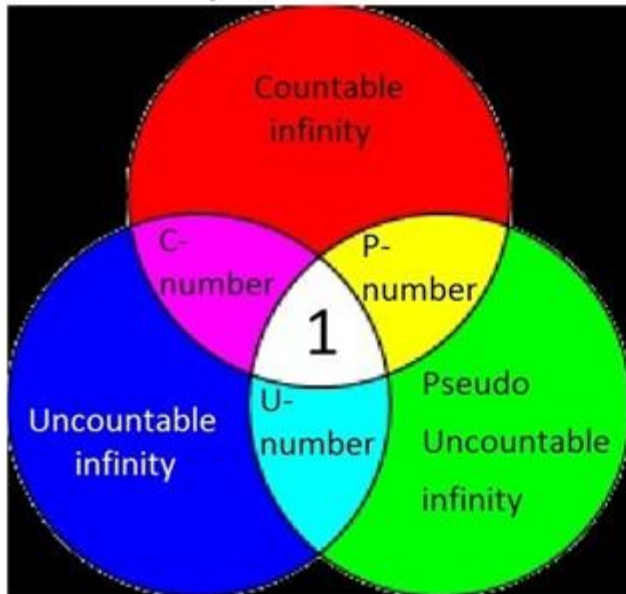
See <http://prelabel.blogspot.com/2012/04/48-exact-number-for-number-of.html>

Numbers and lives are also described with 7-color languages.

# The number line

Constructed with 7 colors

{1, c-number, p-number, u-number, countable, uncountable, pseudo-uncountable}



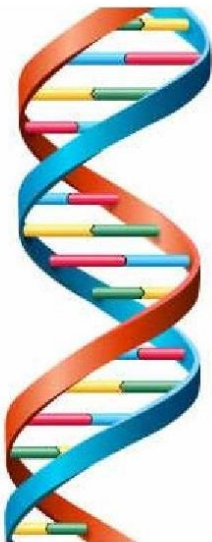
countable digits, such as  $3 = 3.0000\dots$

$= 2.999\dots$  (the c-number).

uncountable digits, such as  $\pi = 3.14\dots$  (the u-number)

pseudo-uncountable digits, such as  $2^{1/2} = 1.414\dots$  (the p-number)

## Life



< A  
> T  
< C  
> G

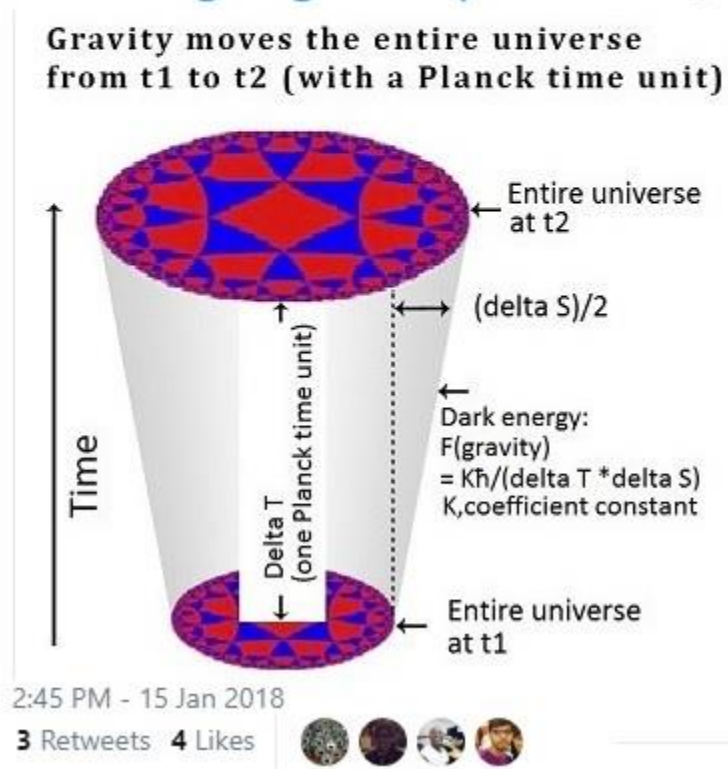
Is a torus, described with 7 and only 7 codes (A, T, C, G, M, F, K), especially for the Sexual species.

Life has **consciousness**, see the Theorem of Consciousness



The 4<sup>th</sup> order manifestations: quantum gravity/fermion spin,

Newtonian gravity: attractive force between two masses. General Relativity: local space-time distortion by a mass. True gravity: moving the entire universe from NOW to NEXT (source of dark energy), see [tienzengong.wordpress.com/2016/12/10/nat](http://tienzengong.wordpress.com/2016/12/10/nat)



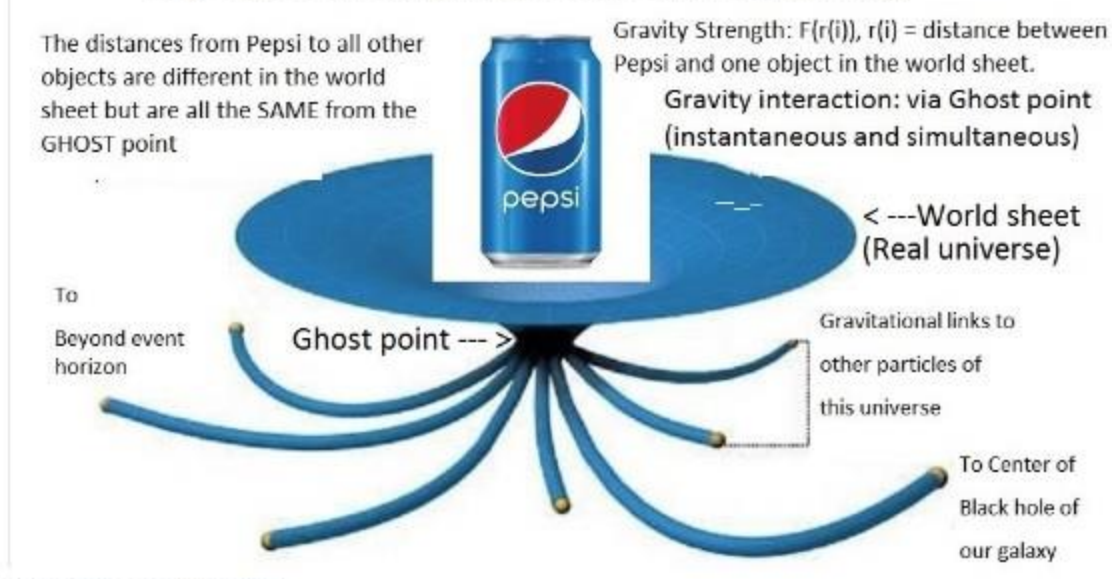


Feynman diagram is a great approximation of a field which does not have a huge leaking hole. As the gravity is mediated via the SAME ghost point (leaking hole) for ALL particles, its observable field is very weak, measured strength = Newtonian gravity, see

[tienzengong.wordpress.com/2016/12/10/nat](http://tienzengong.wordpress.com/2016/12/10/nat)

**Gravity = {simultaneity, instantaneity}**

G-string gravity: a not moving Pepsi can on my desk is interacting with ALL particles in this universe via the GHOST point (in the Real/Ghost symmetry)

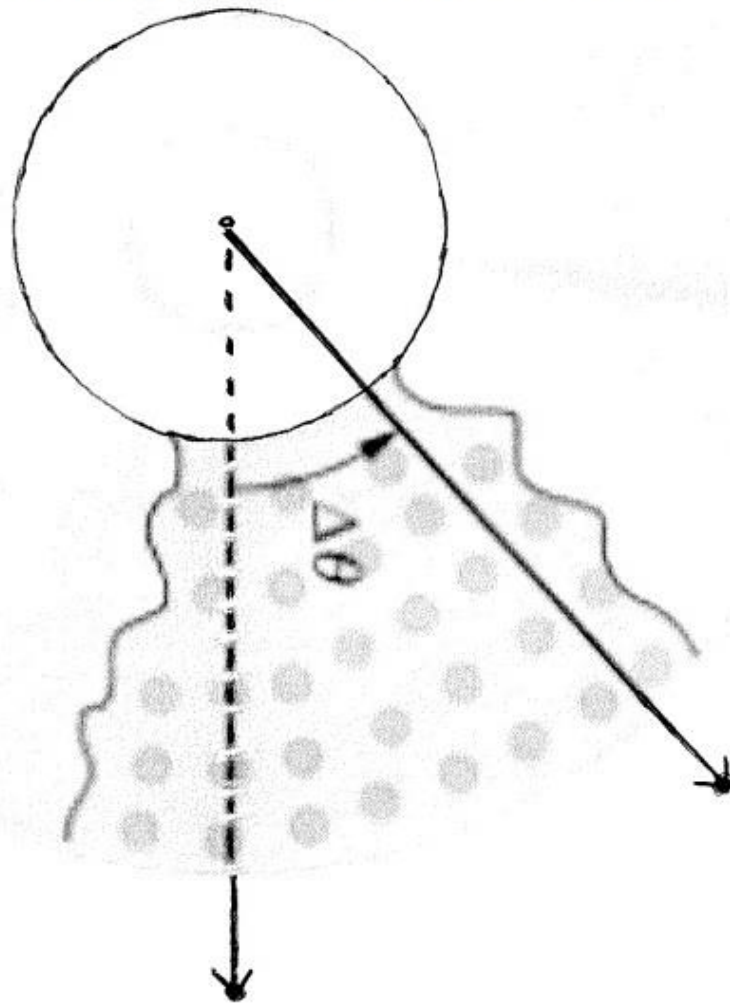


4:22 PM - 13 Jan 2018

In this quantum gravity, one end of EVERY fermion (G-string) is tied to a fixed (ghost) point while the free end rotates around that point. That is, the fermion quantum spin ( $1/2$ ) is the consequence of this quantum gravity.

# Spin 1/2

One end of the string is tied at one fixed point (represented by a disc). When this string rotates around from the lower side (the dash line) to its upper side (the solid line) with one round ( $2\pi$ ), the string itself has rotated  $4\pi$ . That is, the free END of the string has a SPIN of  $(1/2)$ , described by Dirac's belt.



**The fermion spin ( $1/2$ ) is the consequence of the quantum gravity** (when the disc in the graph above reduces to a point, the ghost point), and this fermion spin can also be viewed as a particle bouncing between the ghost point and the material universe.

# Fermion SPIN ( $1/2 \hbar$ ) seeing two universes (Real/Ghost) Real Matter Universe



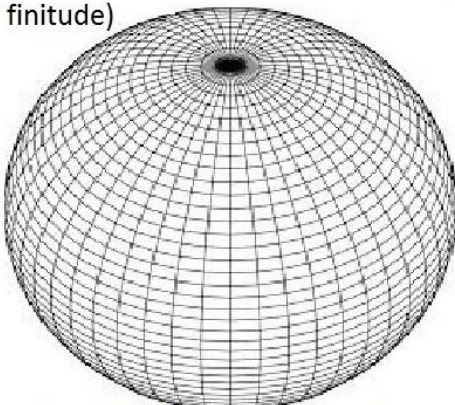
## Quantum Gravity

Mass and Spin rising  
for Fermions

Real/Ghost symmetry

The black spot is the Ghost POINT  
(an infinity)

The entire Ball except the Ghost  
point is the real (matter) universe (a  
finitude)



Fermion SPIN ( $1/2 \hbar$ )

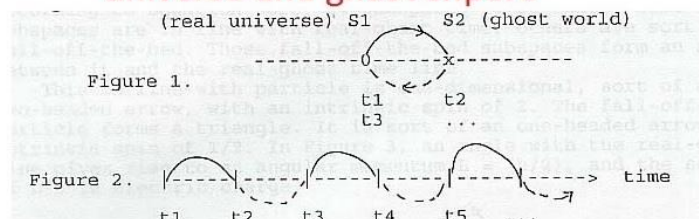
seeing two universes (Real/Ghost)

Real Matter Universe



## Fermion MASS

By bouncing between real (matter)  
universe and ghost shpere



See <https://tienzengong.wordpress.com/2016/03/16/nothingness-vs-nothing-there-the-quantum-gravity/>



## The 5<sup>th</sup> order of manifestations: creation of order (material universe, lives, math, nature constants, etc.).

← → ↺ 🏠 ⓘ www.quantumdiaries.org/2015/01/09/string-theory/#comment-1788717126

Personally, I find it even harder to believe that we are the only universe.

^ | v • Reply • Share ›



Jeh Tween • 2 years ago

Byron Jennings: "Let's now turn to the question of multiverses. ... The underlying problem is the fine tuning of the fundamental constants needed in order for life as we know it to exist. ... There are two popular ideas for why the Universe is fined tuned.

One is that the constants were fine-tuned by an intelligent designer to allow for life as we know it. ... An alternate is that there are many possible universes, all existing, and we are simply in the one where we can exist. ... perhaps we can compromise by having the intelligent designer choosing one of the multiverses as the one true Universe."

There is another alternative; all nature constants {the Cabibbo and Weinberg angles, Alpha, electric charge, mass-charges,  $\hbar$  (Planck constant), etc.} and many measured parameters {such as, Planck data (dark energy = 69.2; dark matter = 25.8; and visible matter = 4.82)} can be 'derived' (calculated). I am showing the simplest one below.

Beta =  $1/\alpha = 64 (1 + \text{first order mixing} + \text{sum of the higher order mixing})$

=  $64 (1 + 1/\cos A (2) + .00065737 + \dots)$

= 137.0359 ...

A (2) is the Weinberg angle, A (2) = 28.743 degree

The sum of the higher order mixing =  $2(1/48) [(1/64) + (1/2) (1/64)^2 + \dots + (1/n)(1/64)^n + \dots]$

= .00065737 + ...

Many other calculations are available at <http://scientiasalon.wordpress...>

^ | v • Reply • Share ›



## In the G-string quantum gravity

Cosmology constant ( $\Lambda$ ) is defined as the 'SHARE' per quantum action.

Cosmology constant ( $\Lambda$ ) =  $\{1/(\text{TOATL quantum action COUNTs})\}$

$$= \{1/([1/(\hbar C)^4] \times T)\} = \{1/0.446 \times 10^{120}\}$$

$$= 2.242 \times 10^{-120}$$

$$T = 4.34 \times 10^{17} \text{ s (second)}$$

In h-unit, Cosmology constant ( $\Lambda$ )  $\sim 3 \times 10^{-122}$



$$\Lambda \approx 1.76 \times 10^{-52} m^{-2}$$

$$\approx 3 \times 10^{-122}$$

But with G-string, this mystery is no more

See <https://tienzengong.wordpress.com/2016/04/24/entropy-quantum-gravity-cosmology-constant/>

The calculation of this CC is totally based on the 4<sup>th</sup> principle; every creation (spacetime act) is uniquely identified.

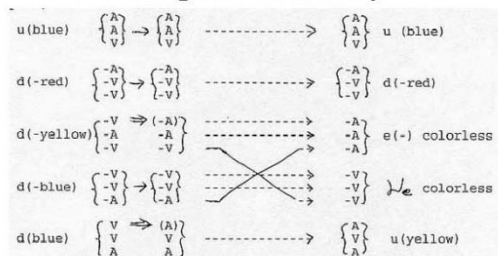
## Calculating Vacuum (wrongly named as Higgs) boson's mass

In G-strings:

Vacuum boson's mass =  $\{(\text{vacuum energy}/2) + (\text{vacuum energy fluctuation, about 1\% of vev})\}$

$$= \{(246/2) + (246 \times 1\%)\} = \{123 + 2.46\} = 125.46 (+/- 1) \text{ GeV.}$$

## G-string beta decay

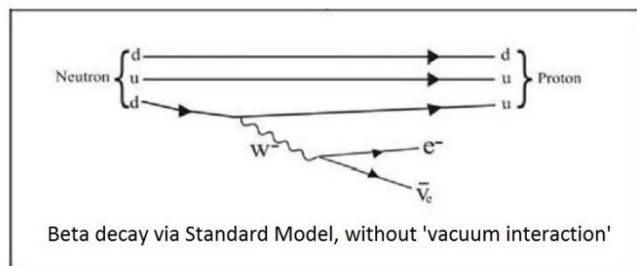


Step 1: picking up a (d, -d) vacuum to form a five quark blob

Step 2: vacuum transformation  $\{(d, -d) \text{ to } (u, -u)\}$  via a vacuum boson

Step 3: exchanging prequarks, W-like weak current

No way to do such a calculation in the mainstream physics (especially, after the LHC 2016 data; naturalness has failed)



Beta decay via Standard Model, without 'vacuum interaction'

See <https://www.linkedin.com/pulse/before-lhc-run-2-begins-enough-jeh-tween-gong>

Nature constants is the part 2 of the 3<sup>rd</sup> principle: the principle of confinement/evolution, as the locks.

## Deriving Planck CMB data

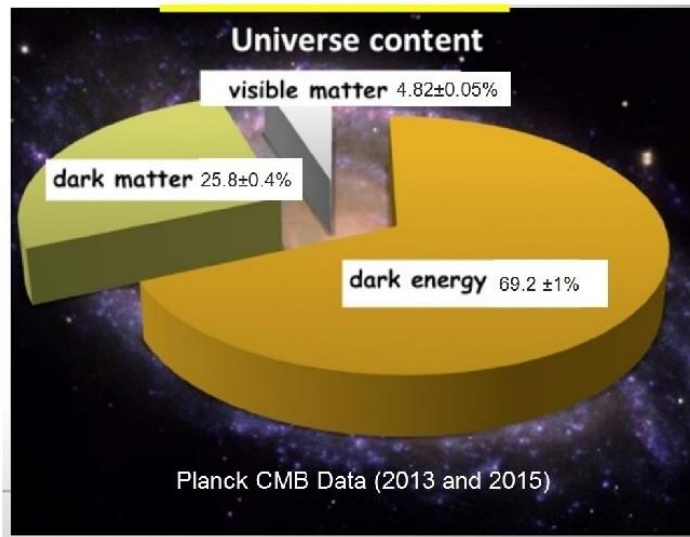
Amphitheater/pimple model {48 fermions (carry the identical mass charge), 7 are visible}; Iceberg model {Space X + Time Y + Total matter Z = 100%; X = Y = Z; Let: DE=Dark Energy, D=Dark Matter, V=Visible Matter, W = 9% (dark radiation, melting of Dark matter into Dark energy)}

$$D/V = [(48 - 7) (100 - W) \% / 7] = 5.33,$$

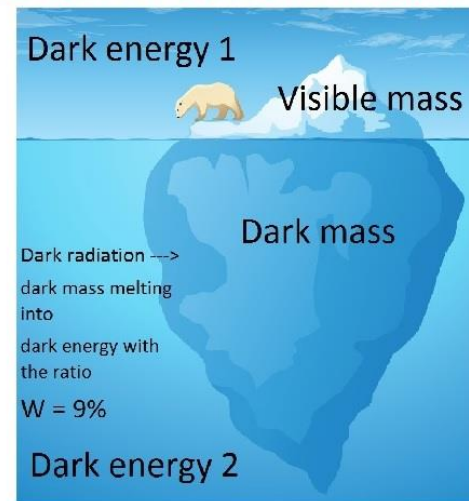
$$D = [(Z - V) \times (100 - W) \%] = 25.90 \%$$

$$V = [(Z - V) \times (100 - W) \%] / 5.33 = 4.86 \%$$

$$DE = X + Y + [(Z - 4.86) \times W \%] = 69.22 \%$$



DE=69.22 %、D=25.90 %、V=4.86 %。



See <https://tienzengong.wordpress.com/2015/04/22/dark-energydark-mass-the-silent-truth/>

More info, see {dawn of the new HEP era}

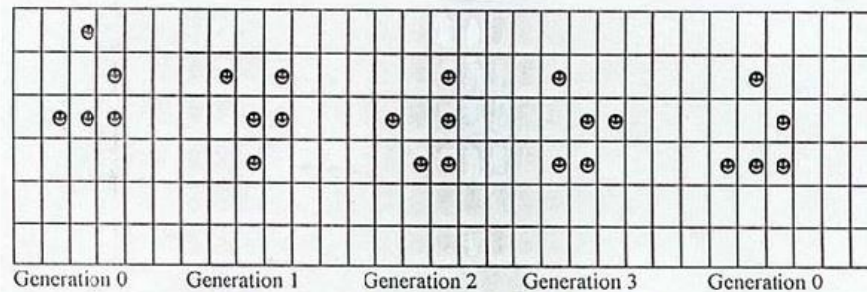
<https://tienzengong.files.wordpress.com/2020/04/dawn-of-the-new-hep-era.pdf>

The biocomputer (below) is the direct consequence of the Prequark structure and the Ghost Rascal process.

# The seeds of bio-computer

Life needs a bio-computer

Glider of Conway's Life Game was proved to be a seed for constructing a Turing computer.



Comparison of proton, glider and neutron

Proton as quarks	Proton as Prequarks	Glider	Neutron as Prequarks	Neutron as quarks
up (red)	(V, A, A)	(, * *)	(A, V, V)	down (red)
up (yellow)	(A, V, A)	(* , *)	(V, A, V)	down (yellow)
down (blue)	(V, V, A)	(. , *)	(A, A, V)	up (blue)

The Prequark Chromodynamics (G-string model) shows that both proton and neutron are gliders.

See <http://www.prequark.org/Biolife.htm>

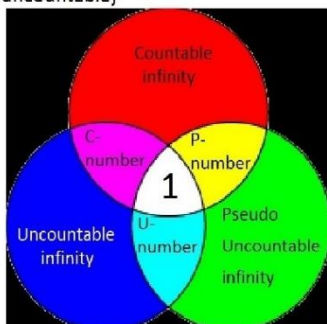
## Math-TOE --- First principle in math as {nothingness = 1/infinity}

Consequences: {colored number/number entanglement} with 7 colors {1, c-numbers, p-numbers, u-numbers, countable, uncountable, pseudo-uncountable}.

### The number line

Constructed with 7 colors

{1, c-number, p-number, u-number, countable, uncountable, pseudo-uncountable}



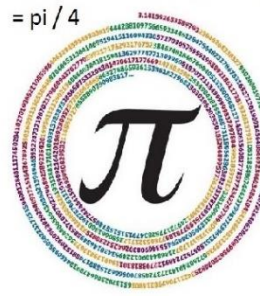
countable digits, such as  $3 = 3.0000...$   
 $= 2.999...$  (the c-number).  
 uncountable digits, such as  $\pi = 3.14...$  (the u-number)  
 pseudo-uncountable digits, such as  $2^{1/2} = 1.414...$  (the p-number)

### The bridge between infinities

The circumference of a circle with a radius of  $1/8$

$$= 1 - 1/3 + 1/5 - 1/7 + 1/9 - 1/11 + 1/13 - \dots + \dots \text{ (with "countable" infinity steps)}$$

$$= \pi / 4$$



There are three points for this equation. One,  $\pi$  (pi) has uncountable digits but is reached with countable steps.

Two, the entanglement: the even number (4, or  $1/4$ ) can only be reached via odd numbers). More entanglement, see Spontaneous Symmetry Breaking on creating numbers, [http://prelabel.blogspot.com/2011/05/source-of-spontaneous-symmetry-breaking\\_13.html](http://prelabel.blogspot.com/2011/05/source-of-spontaneous-symmetry-breaking_13.html)

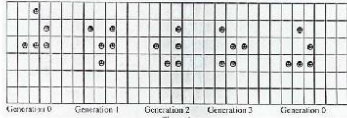
Three, there is a BRIDGE between countable and uncountable.



## The seeds of bio-computer

Life needs a bio-computer

Glider of Conway's Life Game was proved to be a seed for constructing a Turing computer.



Comparison of proton, glider and neutron

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The Prequark Chromodynamics (G-string model) shows that both proton and neutron are gliders.

See <http://www.prequark.org/Biolife.htm>

## Life

Is a torus, described with 7 and only 7 codes (A, T, C, G, M, F, K), especially for the Sexual species.

Life has **consciousness**, see the Theorem of Consciousness



A  
T  
C  
G



## Physics + Math give rise to Life

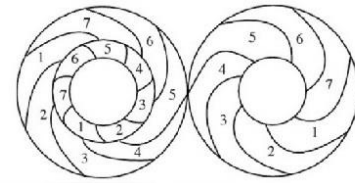
One, both proton and neutron are **SEEDS** for bio-computer

Two, '**theorem of conscious**' gives rise to the ability to distinguish Self from all others.

Three, the highest life is expressed with **7-color-codes**.

Theorem of Consciousness:

Distinguishing self from all uncountable others



For a torus (with  $g=1$ ), it takes 7 colors to distinguish all (uncountable) torus.

If an entity is a torus, it has the ability to distinguish itself from all others.

Heawood conjecture (Ringel-Youngs theorem)

$$\chi'(K) = \frac{1}{2} \left( 7 + \sqrt{48g + 1} \right)$$

## Conclusion

The connections among {unified force, cubic polynomials, fractals, elliptic curves, torus} form the base for a final unification (including physics, math, bioscience, consciousness, etc.).

The connection between the gravity (the simultaneity and instantaneity) and quantum-ness (spin  $\frac{1}{2}$ ) shows that the unification between the two.

Furthermore, these 4 principles are essentially equivalent; in essence, nothing is created.

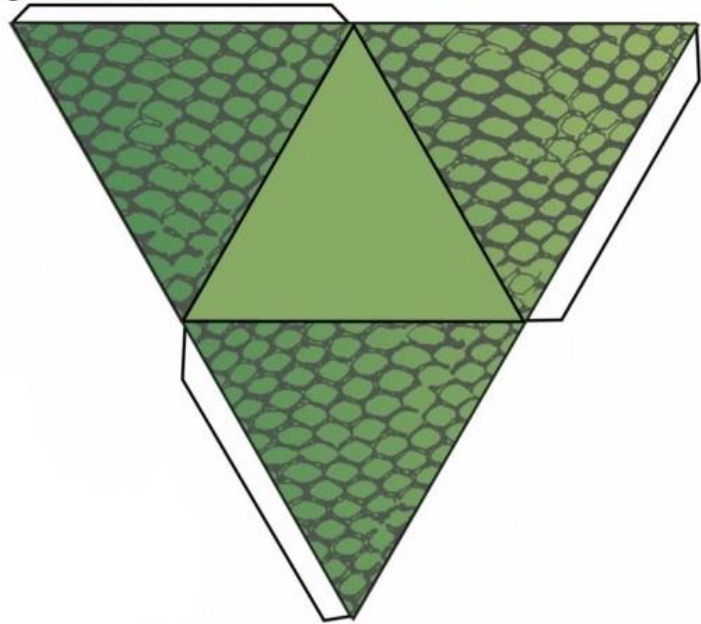


Four principles form an equilateral triangle-based pyramid:

Base: 1<sup>st</sup> principle, the essence (total randomness/nothingness)

Side 1: Creation (order); Side 2: Confinement; Side 3: individuality

Yet, all sides are indistinguishable.



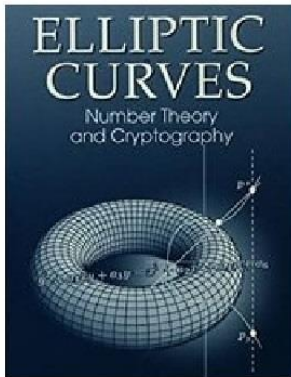
When one side is preserved, all 3 other sides are preserved.

Side 1: creation (Ghost Rascal), also the base for a biocomputer.

Side 2: confinement (unified force equation/fractal), also the governing force for the universe evolution (nature constants, baryogenesis, dark energy, and dark matter).

Side 3: individuality of each spacetime act (entropy, CC, and the base for the high-level consciousness)

Yet, these 3 sides do not alter the essence (the base) for being total randomness/nothingness AT any giving point of T (time quantum).



## Physics/math/life totally unified

One, elliptic curve on complex field is a torus (defined with 7 color-codes), the BASE for consciousness via Theorem of consciousness (Ringel-Youngs theorem).

Two, elliptic curve is the base for Fermat's last theorem and ABC conjecture.

Three, fermions are described with elliptic curve.

Four, elliptic curve is the generalized expression of a unit circle (concretized infinity).

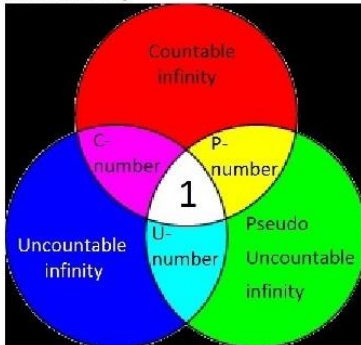
### Matter structure

In the G-string model, the {generations} is in fact a color charge. Thus, the matter (one part of the [space, time, matter]) has a torus structure which is defined with 7 color-codes {q-red, q-blue, q-green, W (white), G1, G2, G3}.

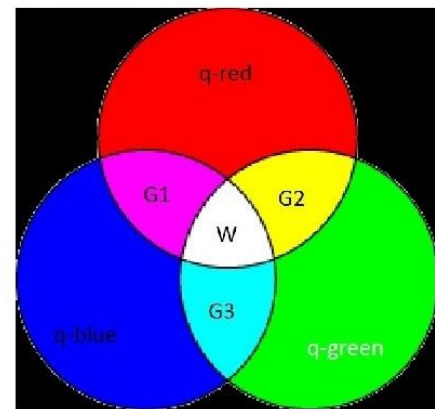
## The number line

Constructed with 7 colors

{1, c-number, p-number, u-number, countable, uncountable, pseudo-uncountable}



countable digits, such as  $3 = 3.0000...$   
 $= 2.999...$  (the c-number).  
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## The cyclic universe (C-multiverses)

is the central point in the book "Super Unified Theory"

The simultaneous-coexist-multiverse (S-multiverse) is totally wrong

### The future of the Universe

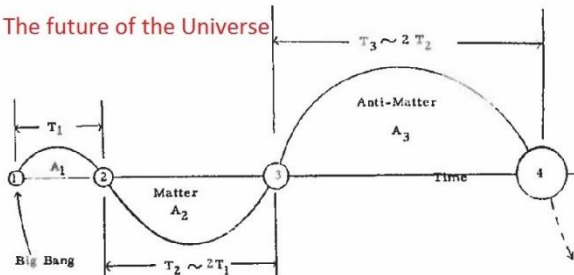


FIG. 3) Matter and anti-matter alternately appear in each "Big Bang". And the size of the universe will increase by a factor 2 during each cycle.

## SUPER UNIFIED THEORY

—THE FOUNDATIONS OF SCIENCE—

JEH-TWEEN GONG

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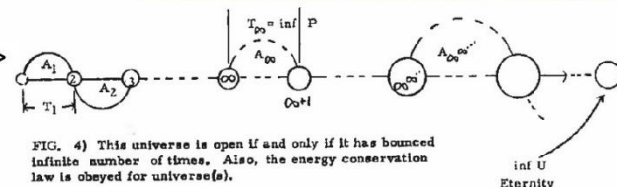


FIG. 4) This universe is open if and only if it has bounced infinite number of times. Also, the energy conservation law is obeyed for universe(a).

Page 45 of "Super Unified Theory"

See <http://scientiasalon.wordpress.com/2014/06/05/the-multiverse-as-a-scientific-concept-part-ii/comment-page-1/#comment-3158> and <https://medium.com/@Tienzen/it-multiverse-is-a-theoretical-conjecture-one-that-makes-sense-but-it-isn-t-a-scientific-4abe8a8ac63>

# Evolution and the fate of THIS universe

## Dark flow

$$V = Hd$$

recessional velocity (km/s)      distance (Mpc)

**H is the Hubble constant**

H (now) =  $73.24 \pm 1.74 \text{ km s}^{-1} \text{ Mpc}^{-1}$

H (early universe, CMB period) =  $66.93 \pm 0.62 \text{ km s}^{-1} \text{ Mpc}^{-1}$

Dark flow =  $\{(73.24/66.93) - 1\} = 0.094 = 9.4\%$

See <https://tienzengong.wordpress.com/2015/04/22/dark-energydark-mass-the-silent-truth/>

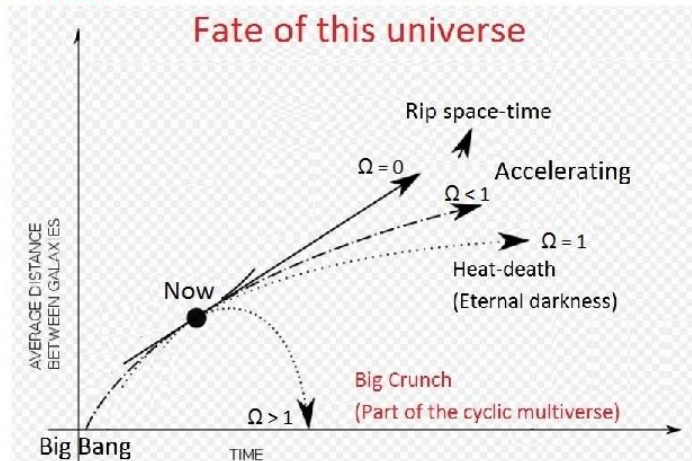
## W = dark flow

When **W = 100%**, there is no dark mass (matter) in this universe. The entire universe is 100% energy. The universe expands SIMILAR to inflation.

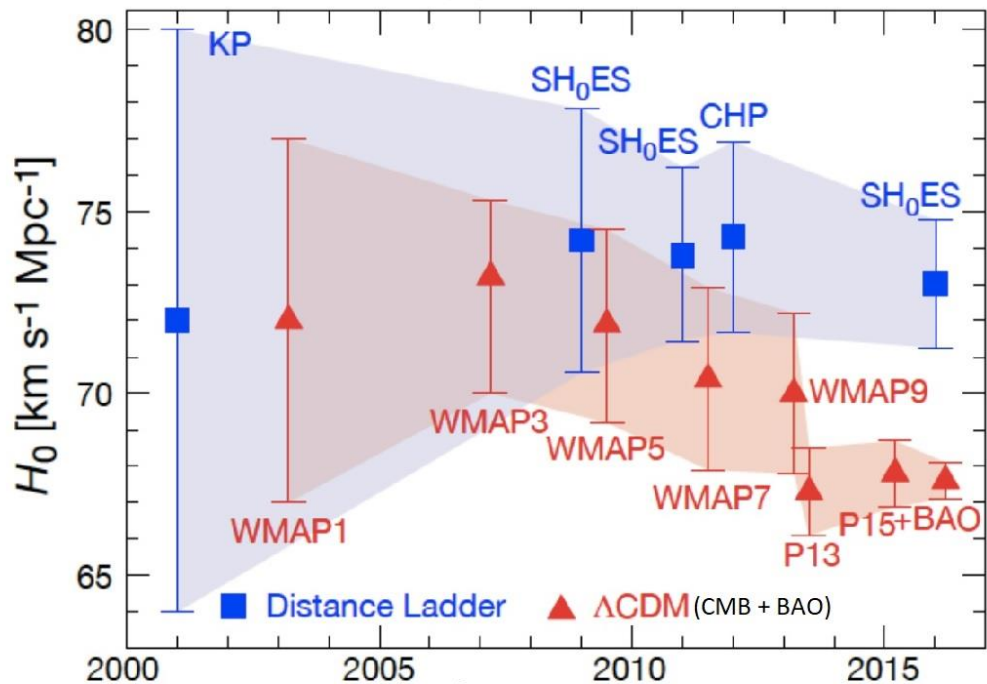
When **W = 0%**, the mass has reached its peak, and the  $\Omega$  can go over 1 ( $\Omega > 1$ ). The universe begins to contract, going to the big crunch.

When **W > 0%**, the universe expands with acceleration. Now, the W = 9%.

See <https://tienzengong.wordpress.com/2017/05/15/comment-on-adam-riess-talk/>



## Evidence of the G-theory prediction of 9% Dark Flow



Difference about 9% at greater than 3- $\sigma$ , Graph from Wendy L. Freedman (in 2017)