

# **New Dark Matter Black Holes and a New Dark Energy Higgs Field, lead to a Bouncing CP symmetrical Multiverse, and new experiments.**

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## **Abstract,**

This essay presents some features of a non Standard Model philosophy called the Quantum Function Follows Form model (Q-FFF). In the Q-FFF model, it is assumed that the different Functions in nature are based on Form differences of real particles with different internal and external structure and that the Higgs is the origin of all basic singular particles by its convertibility. Quarks are supposed to be compound particles with one, two or three electrons or positrons as a base merged with one or two real Gluons.

In the Q-FFF model, mass is interpreted as the capacity of real shaped and spinning Fermions to produce gravitons, as the resulting (form) information products of collisions with an alternative (non-Standard Model) Higgs vacuum lattice system. Consequently the Higgs system itself can have no mass, it is supposed to be the transportation device for graviton- and other photonic information. Thus the Higgs mass found in the LHC at Geneva of 126 GeV, is interpreted as pure oscillatory energy of real “new Higgs” vacuum particles.

The new Higgs particles are supposed to be convertible by an internal rotational structure they are responsible for the creation of “Something” out of “Nothing”.

Thus the Big bang nucleus should contain already all particles of the multiverse in the form of a knot of “virgin” Higgs particles able to form different chiral but entangled the Higgs fields inside different chiral space bubbles expanding into the form of a raspberry.

If the new Higgs field has chiral lattice structure (left or right handed) then the origin of a material- and anti-material universe is secured by the prevalence for left or right handed Fermions to merge with photons to form left or right handed Quarks with larger stability than Fermions with the opposite handedness are able to.

The raspberry shaped entangled CP symmetric Multiverse seems to be the logic result of the quest for symmetry and inter-multiversal entanglement between anti-copy universes could be the base for the collapse of all wavefunctions (Schrödinger’s cat) including consciousness.

## Introduction.

Each Higgs particle itself is equipped with a complex internal structure and is energetic oscillating in linear opposition with one dual partner Higgs particle forming a singular lattice with the Planck length. Such twin Higgs lattices are connected with two other twin Higgs lattices, forming a helical lattice. One helical lattice is supposed to form one edge of a tetrahedron, as part of the tetrahedral chiral space filling vacuum lattice. **(fig.1-2)** This alternative twin Higgs particle system is supposed to be the cause of the creation of matter in the universe by transformation of Higgs particles, after excessive energetic collision with opposing Higgs particles into entangled twins of electrons and positrons, which in succession are able to merge with real Gluon/Photon particles into Quarks. **(fig.3)**

The Chirality of the vacuum lattice in our Material universe is supposed to be the cause of preferential merging of positrons with gluons into u-quarks and less merging of electrons into d-quarks to form protons and neutrons with electron shells forming material atoms. Thus the chiral vacuum mechanism seems to be the cause of the preponderance of matter over anti-matter in our “material universe” without the existence of large amounts of residual anti-matter.

However, for big bang symmetry reasons, there should be also vacuum space with opposite lattice chirality, which I will call our entangled opposite anti-material copy universe at a large distance as part of a raspberry shaped multiverse with internal faster than light (instant) communication between anti-copy particles. **(fig. 4-7)**

Both entangled universes have Charge Parity symmetry and are supposed to be each others alternate at random observer solving Schrödinger’s cat paradox and other quantum weirdness. It seems that God plays dice with entangled dice separated inside dual CP symmetric oscillating pinball machines called universes.

## The Finite Multiverse.

The multiverse is supposed to be finite caused by the finite amount of particles in photonic or Fermionic form in combination with the particle content of black hole nuclei.

The multiverse seem to need a raspberry shape equipped with left or right handed vacuum chirality and a restricted number of CP (Charge Parity) symmetrical universes as berries or lobes.

Time is interpreted as the local oscillation frequency of CP symmetrical atoms and anti-atoms like Caesium, so time is not running backwards inside anti-material universes.

One of the universal berry lobes is supposed to be OUR material universe which is has to be entangled down to the Planck scale (thus even at the human scale) with at least one opposing anti-material mirror universe inside the raspberry.

The raspberry multiverse is supposed to be pulsating. **(fig. 8)** due to the existence of a process of evaporation of the (non SM) Higgs vacuum particle system (**Dark Energy**) during the big bang inflation process and in succession, by the consumption of the same Higgs vacuum lattice by individual black holes (Clumpy **Dark Matter**) created at all scales from big bang remnant black hole splinters, **(fig. 9)** down to Super Nova black holes, Stellar black holes, Sunspots, Comets, atmospheric Micro Comets and even Ball Lightning.**(fig 10)**

Consequently the big bang inflation process is interpreted as the evaporation of the big crunch black hole, produced by the Big Crunch of the former multiverse.

The creation of Higgs particle based Quark Gluon plasma out of the “nothingness” of the oscillating Higgs vacuum lattice, seems to be not only possible direct after the black hole

splitting big bang Multiverse, but even more at the Fermion repulsion horizon of smaller “new paradigm” black holes supposed to be proliferated as clumpy dark matter through the multiverse (**Fig 11**).

“Less Is More” and “Form Follows Function”.

The Aphorisms: “Less Is More” and “Form Follows Function”, of Modern Architecture, introduced by Mies van der Rohe respectively Louis Sullivan, seem to be REVERSIBLE in Nature.

Why, because at the Planck scale, the shape of particles and the way particles are connected to each other and form compound quarks, seem to be the origin of the particle FUNCTION. As a result we may say: FUNCTION FOLLOWS FORM in particle physics.

At the Universal scale however, CPT ( Charge, Parity and Time) SYMMETRY between entangled copy Universes, forming a Multiverse with Raspberry geometry, seems the most logical solution for a theory of everything.

Is Less More in the Symmetric Multiverse?

No, as a result we may say: MORE IS BETTER in a CPT symmetric Multiverse creating particle and human Consciousness. (then we may solve the "Symmetry"- and “Schrödinger's Cat” problem). **Ref [6]**

As a consequences, we should not be afraid for Ockham’s razor who ordered to keep it simple as possible at the Planck- or Universal scale.

In fact this Quantum FFF theory follows Ockham’s razor by keeping the choice system in nature simple. If we have a system of entangled symmetric copy universes, then I expect that by a sort of entanglement floatation by chance, one of the copy observers is the first conscious human to suggest a specific choice (and become the subject) about 300 m.sec later, the other observers in different (anti-) copy-universes are able to pass or veto the choice. (**B.Libet Ref. [6]** Wavefunction Collapse and Human Choice-Making Inside an Entangled Mirror Symmetrical Multiverse)

## **The pulsating Multiverse.**

According to mainstream physics, the universe is expanding. The expansion seems to be even accelerating for more distant galaxies.

The Hubble redshift observed on Super Nova standard candles seems to be the origin of this misconception.

However, if we take the features of Quantum FFF model into account, then only one solution seems to be possible: Our raspberry CPT symmetric multiverse must have a pulsating character.

If the vacuum is described as a super dense oscillating Higgs lattice at the Planck scale (representing dark energy) and proliferated black holes (representing dark matter) have Higgs compressed nuclei constantly eating the vacuum, growing in numbers and size by Supernova explosions, then only one conclusion is to make: the universe is contracting into a Big Crunch black hole.

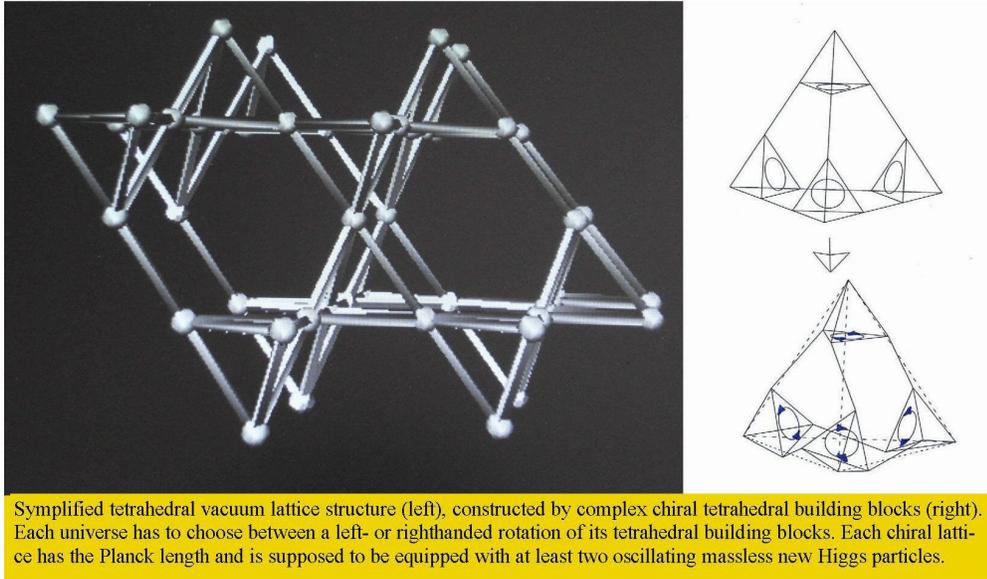
What could be the origin of the universal Hubble redshift including the acceleration effect?

The most logical origin seems to be that dark matter black holes located between the light sources and our telescopes influences the structure (the Planck length) of the vacuum lattice by the continuous absorption of the vacuum by these dark matter black holes.

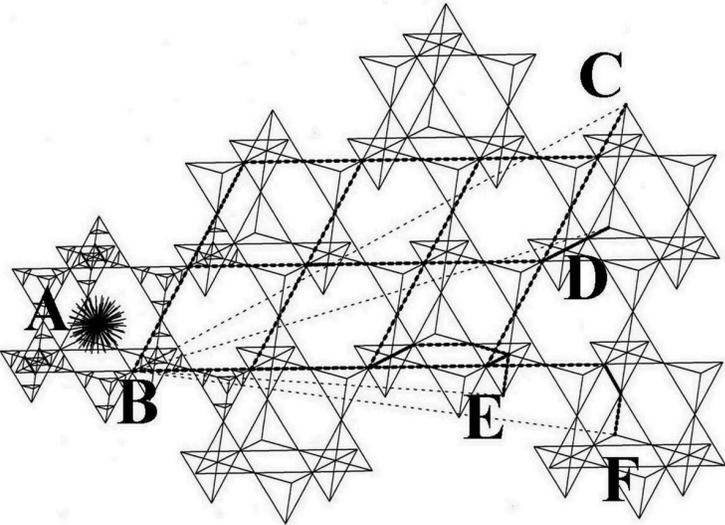
Conclusion: The multiverse is pulsating.

The Big Bang is based on the splitting and evaporation process of an exploding Big Bang Black Hole (BBBH) created by a so coined Big Crunch Black Hole (BCBH) (**fig. 6-7**)

For the nucleus of a microscopic “Q-FFF black hole” (**fig 10**).



**Figure 1. The Chiral vacuum lattice. Three adjacent lattices are combined into one helical lattice (right) which is supposed to form the edges of all tetrahedrons being the base, for the three dimensional vacuum lattice structure (left).**



**Photon trajectories through the tetrahedral Chiral vacuum lattice.**

A photon is created as a deformed Higgs particle at position (A), thus as a single (Photon/Gluon) particle which after some distance changes form back into a Higgs particle (B).  
 The photon energy is transferred into the oscillating Higgs system and travelling through the vacuum lattice in the form of a BUNCH of entangled energetic Higgs oscillations with the local speed of light.  
 (To match the single photon double slit experiment)  
 After collision with a second Fermion, at locations C,D,E,F, the BUNCH of energy collapses and change the FORM of a local Higgs particle into the shape of the original Photon.  
 Five different shaped Gluons after some distance are called Photons.  
 Thus five different shaped Photons start their journey as Gluon. Author: Leo Vuyk.

**Figure 2. Wavefunction propagation and collapse inside the vacuum lattice.**

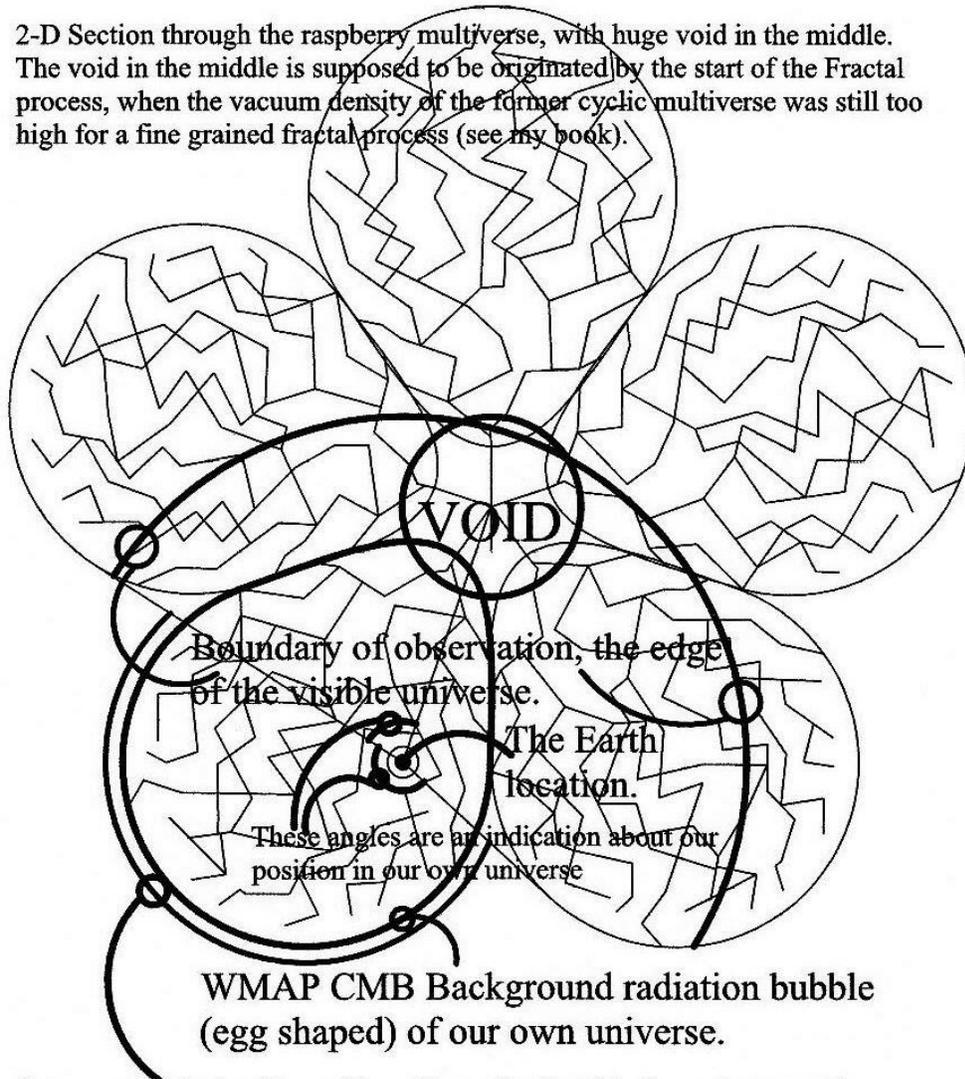


## The raspberry multiverse.

The CPT symmetric raspberry universe seems to be the result of Fractal shaped evaporation, of the content of a cyclic central big crunch black hole, into egg shaped bubbles with individual Cosmic Microwave Background. (CPT= Charge Parity and Time)

3-D suggestion for the solution of the so called "MISSING GALAXY SHADOWS". All the Galaxy (clusters) located behind the WMAP CMB boundary (outside our own universe) do not create some kind of SHADOW on the 2.7 Kelvin cosmic background radiation.

2-D Section through the raspberry multiverse, with huge void in the middle. The void in the middle is supposed to be originated by the start of the Fractal process, when the vacuum density of the former cyclic multiverse was still too high for a fine grained fractal process (see my book).



Future research should provide evidence for the globular anti-symmetric distribution of galaxy clusters without a CMB shadow. In the external half of the globular hemisphere all galaxy clusters will show up with a clear shadow in the CMB, because there are no galaxies located behind this part of the CMB. The angle which will be measured between these two hemispheres will be an indication for our observer location in our own Universe. (author: Leo Vuyk)

Figure 5. Cone shaped section through a dodecahedron multiverse.

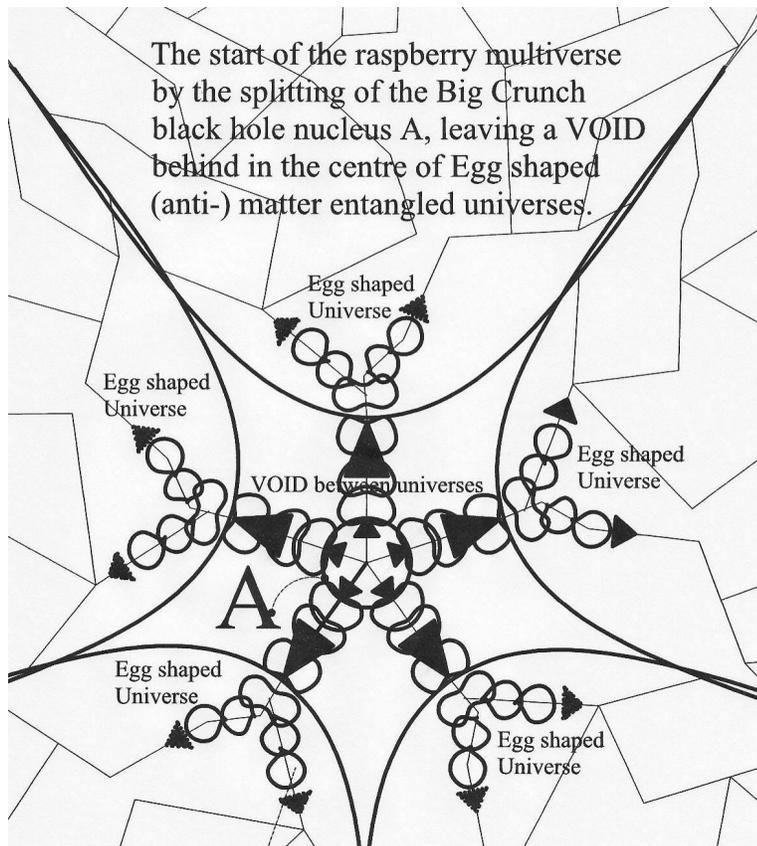
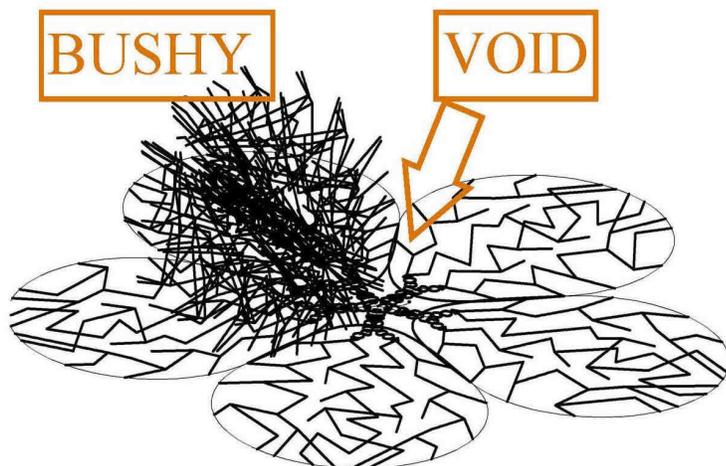


Figure 6. The centre of the Raspberry Multiverse without Galaxy formation or Lyman Alpha structure.



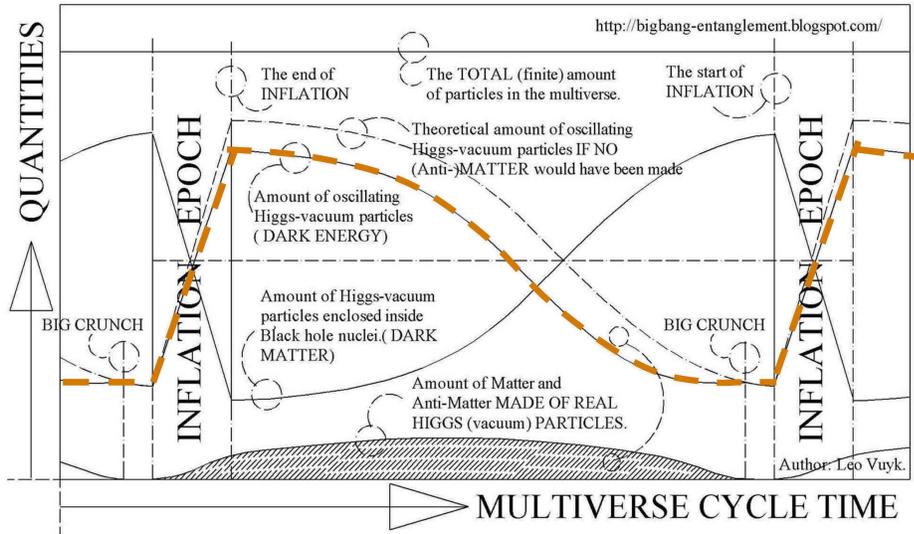
The black hole splitting and pairing raspberry shaped multiverse seems to need a BUSHY structure just in line with observation of the Lyman alpha forest and a large VOID in the middle.

If the Big Bang could be interpreted as the splitting of a former Big Crunch black hole, then the bushy structure represents the splitting black hole trajectories. (Author: Leo Vuyk)

Figure 7. Simplified Lyman Alpha "bushy" structure of one of the universes inside the Raspberry Multiverse.

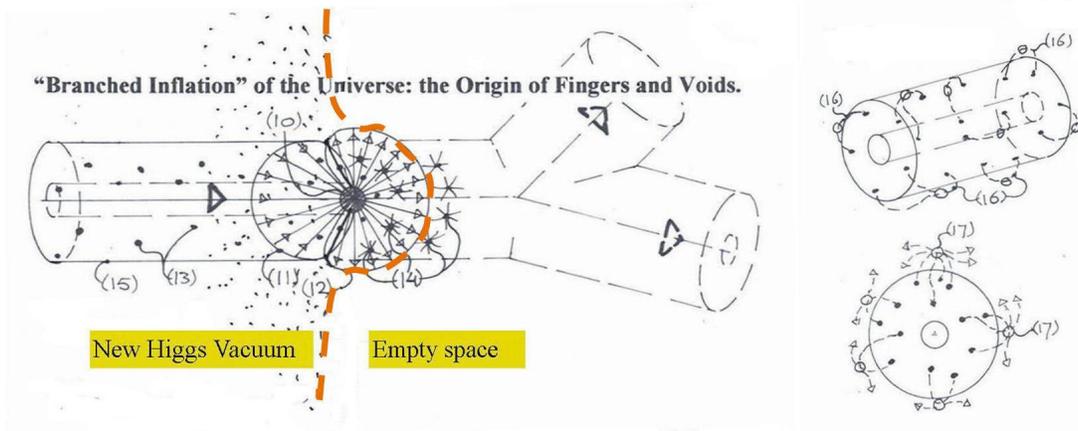
## The CPT SYMMETRIC MULTIVERSE CYCLE.

The Inflation epoch starts if the decreasing vacuum pressure equals the increasing Higgs tension of the Big Crunch black hole nucleus. Inflation epoch ends if all splintered black hole nuclei are evaporated, or left behind as Galaxy Anchor Black Holes.



The Pulsating Multiverse depicted as a continuous flow of increasing and decreasing numbers free oscillating- and Black hole condensed Higgs particles and the amount of Quarks and leptons. The size of the pulsating multiverse vacuum is given in orange.

figure 8 , The BCBH is able to explode again, if the oscillating Higgs Vacuum pressure on the BCBH nucleus decreases enough to equalise with the internal BCBH nuclear energy of the Higgs tension.



The origin of the Lyman Alpha Forest (15) and Higgs vacuum, by the splitting of the Big Bang Black Hole (BBBH) into smaller Splinter BHs (10). The splinter BHs (10) evaporate into smaller evaporating black holes at the Front (14) which compensate the pressure from the Backside splinter BHs (11). The BHs (11) are assumed to partly evaporate like BHs (14) also into a newly formed oscillating Higgs vacuum until the Higgs vacuum pressure stops the evaporation and leave Galaxy Forming BHs (13) behind. However single BH will pair (16) with the nearest other BHs to form Dumbbell systems, which efficiently form Giant Stars and Galaxies (17) in between. (author: Leo vuyk)

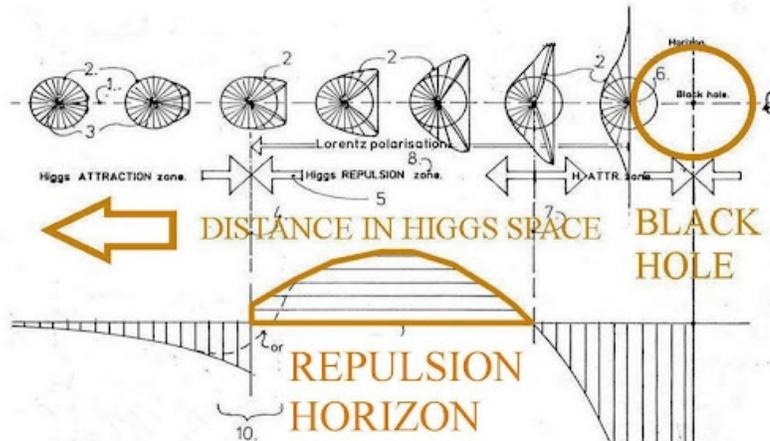
figure 9 , The splitting Big Crunch Black hole, leaving black hole splinters as Galaxy Anchor black holes (GABHs) as the origin of the Lyman Alpha forest

## The Nucleus of the NEW Black Hole.



Figure 10. the black hole knotty nucleus (Dark matter) is a ball of Higgs particles compressed and condensed by the oscillating Higgs vacuum energy (dark energy).

## The Fermion repelling horizon of new black holes



7x Higgs quantum curves (2) are depicted for Fermions (3) with different distance to the BH horizon. At location (10) the spin of the fermions will FLIP due to the propeller shape of the Fermion and an opposing force away from the horizon is created by the Higgs vacuum itself down to location (7). The zone between (7) and (10)

figure 11, The new paradigm black hole has a localized Fermion repulsion horizon, depending on the anti-symmetry of the local vacuum energy vector structure. Area (10) is supposed to be location of Quark Gluon plasma creation around single- and even dual black holes like Cygnus Alpha.

**"All physical theories..... should lend themselves to so simple a description that even a child could understand them."-- Albert Einstein.**

I hope that I am in the same line of thought by using only geometrical explanatory imaging (see the figures) and references to new experiments supporting the Q-FFF model.

**Those experiments are:**

1: Lightspeed drag and extinction experiment inside a double mirrored fast rotating cylinder in the lab. Ref [3]

2: CHAMP-GPS satellite distance outlier measurement focussed on GPS elevation angle to the earth.

Ref [3]

3: Gravity drag related Lightspeed variation experiment between two balloons or satellites and the earth. Ref [3]

4: Multiverse number count by a renewed Benjamin Libet experiment focussed on RPI and RPII ratio. Ref [6]

5: Double Stern-Gerlach atomic Entanglement experiment. Ref [6]

6: Double LeSage gravity experiment by a new massive oscillator. Ref [7]

7: Monopole radiation based Magnetic field experiment Ref: [7]

8: The laboratory production and exploitation of a micro black hole or ball lightning. Ref: [14]

## References.

- [1] [viXra:1102.0052](#) *submitted on 27 Feb 2011.*  
**Construction Principles for Chiral "atoms of Spacetime Geometry".**
- [2] [viXra:1102.0054](#) *submitted on 27 Feb 2011.*  
**Atomic Nuclear Geometry Based on Magic Number Logic.**
- [3] [viXra:1102.0056](#) *submitted on 28 Feb 2011.*  
**Experiments to Determine the Mass Related Lightspeed Extinction Volume Around the Earth and Around Spinning Objects in the Lab.**
- [4] [viXra:1103.0002](#) *replaced on 14 Nov 2011.*  
**3-Dimensional String Based Alternative Particle Model.**
- [5] [viXra:1103.0011](#) *submitted on 3 Mar 2011.*  
**An Alternative Black Hole, Provided with Entropy Decrease and Plasma Creation.**
- [6] [viXra:1103.0015](#) *submitted on 5 Mar 2011.*  
**Wavefunction Collapse and Human Choice-Making Inside an Entangled Mirror Symmetrical Multiverse.**
- [7] [viXra:1103.0024](#) *replaced on 24 Mar 2011.*  
**Quantum Gravity and Electro Magnetic Forces in FFF-Theory.**
- [8] [viXra:1103.0068](#) *submitted on 16 Mar 2011.*  
**Function Follows Form, at the Quantum Scale and Beyond.**
- [9] [viXra:1103.0097](#) *submitted on 23 Mar 2011.*  
**ZPE Zero Point Energy Examples Around Black Holes.**
- [10] [viXra:1104.0002](#) *submitted on 1 Apr 2011.*  
**Stellar Anchor Black Holes as the Remnants of Former Herbig Haro Objects**
- [11] [viXra:1104.0044](#) *submitted on 13 Apr 2011.*  
**Ball Lightning, Micro Comets, Sprite-Fireballs and X-Ray/gamma Flashes According to Quantum FFF Theory**
- [12] [viXra:1104.0083](#) *submitted on 28 Apr 2011.*  
**Quantum FFF Theory in Posters.**
- [13] [viXra:1108.0006](#) *submitted on 3 Aug 2011.*  
**Mass in Motion in Quantum FFF Theory**
- [14] [viXra:1108.0036](#) *replaced on 21 Sep 2011.*  
**Artificial Ball Lightning Production and Exploitation Device for Zero Point Electric Energy Usage.**
- [15] [viXra:1111.0061](#) *submitted on 15 Nov 2011*  
**Black Hole Horizon Curvature Dependent Balance Between Plasma Creation and e-e+ Annihilation in Quantum FFF Theory.**
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