

# Hubble Redshift combined with Universal Contraction is possible.

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## Abstract

It is well accepted that the Hubble redshift is a sign for Universal expansion. However despite this fact I argue that the opposite also could be the case if we postulate that Dark Matter is related to Black Holes and Dark Energy is related to the oscillating energy of a super dense but massless Higgs vacuum.

These two choices are also reason to extend the standard model with ideas like particle Form as information for particle Function and entropy decrease around black holes.

I call it Quantum Function Follows Form Theory. (Q-FFF Theory)

**In Quantum FFF theory (ref. 1): Dark Matter Black Holes are supposed to EAT the dense Dark Energy based Higgs vacuum lattice. This should also be an origin of redshift effects on travelling photonic waves passing by and the origin of Gravitational lensing.**

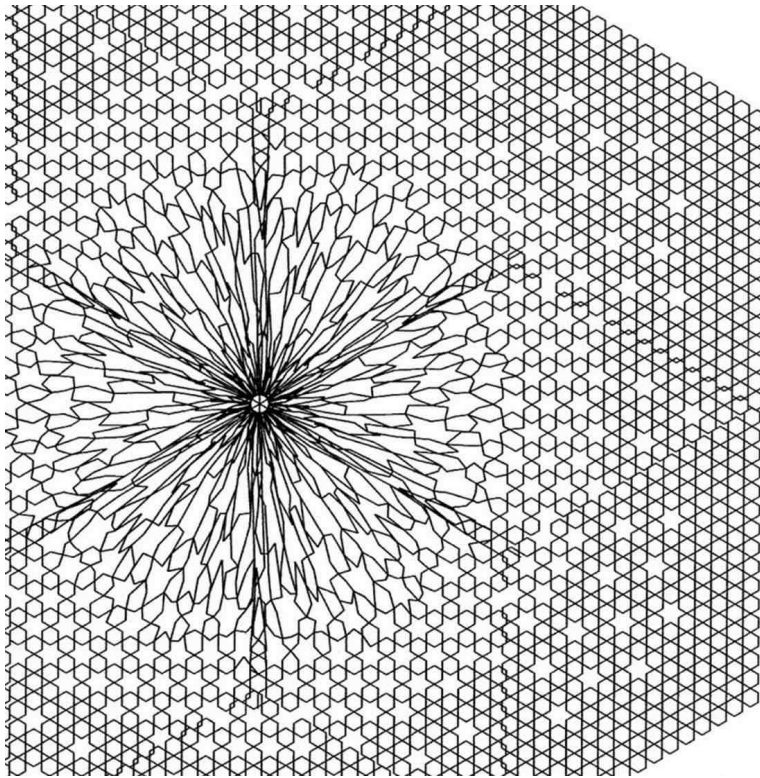


Figure 1. Dark Matter Black Hole eating Dark Energy Higgs particles.

Black holes EAT the vacuum lattice with the oscillating Higgs particles,

So, the vacuum lattice structure around a black hole could be represented like this.

As a result, the near vacuum is thinner or diluted, it has holes, which could be the origin of the Universal HUBBLE redshift.

By contrast, my new black hole paradigm says: the origin of universal redshift is Dark matter.

Dark matter is the proliferation of vast numbers of Black holes around Galaxies. Conclusion, based on Hubble redshift, we don't know anything about expansion or contraction of the universe.

(Author Leo Vuyk)

## Particle geometry information.

The geometry of some basic particles.

The Higgs is postulated to have a ring shape encoded OOO..

The ring is equipped with one splitting point and three 90 degree hinges.

The Higgs particle is supposed to oscillate in tandem along the vacuum lattice with its neighbour Higgs particle to transfer photonic information. If local photonic energy surpass a certain level, pair formation ( $e^+$ ,  $e^-$ ) will occur. by 90 degree rotation over the Middle hinge encoded OLO or ORO.

Gluonic Photons are also the result of the continuous collision between Fermions and dual oscillating Higgs particles, with the rotation of TWO hinges at once of a Higgs particle into a monopole photon with coding: ROR-LOL-etcetera.

Fermions should have propeller shape for spin reasons. ( see fig 5)

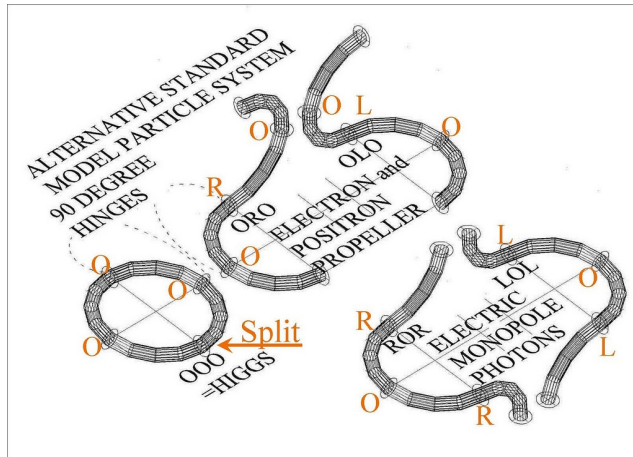


Figure 2. Hinge Structure encoding of some singular particles.

## Quantum Function Follows Form Model.

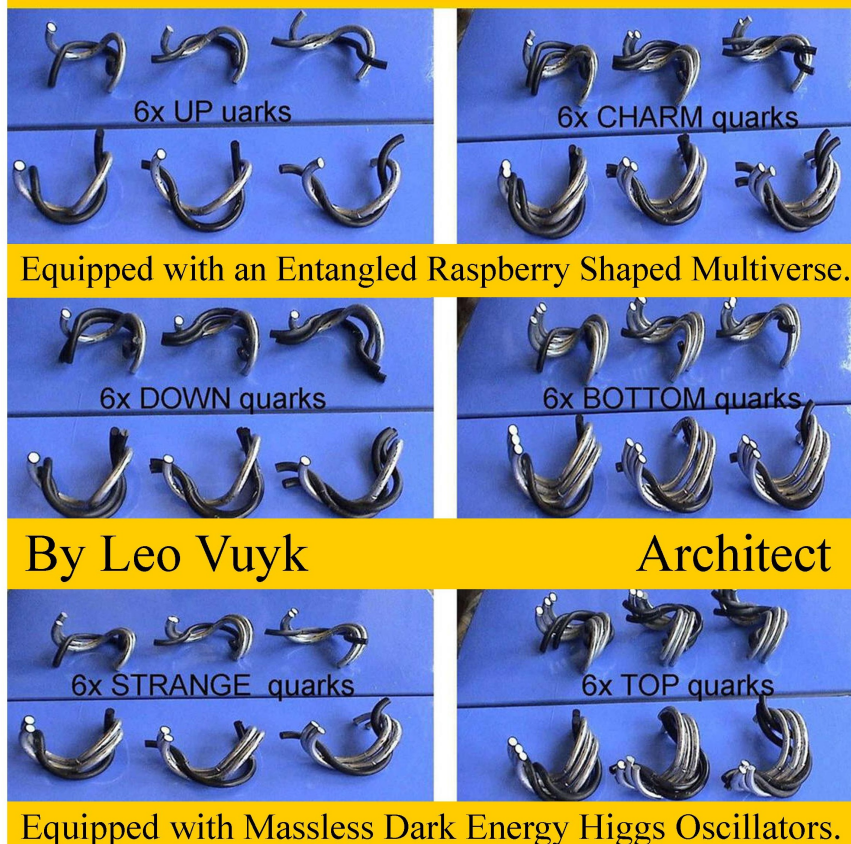


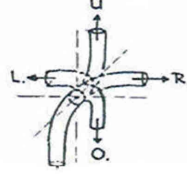
Figure 3, Composite Quarks, electrons and Positrons ( silver) with Photons/Gluons (black) form quarks.

# ALTERNATIVE STANDARD MODEL

of elementary (single) particles with click-on potentials to form compound Quarks- and Leptons.  
(author Leo Vuyk)

Explanation of the codes:

- U= Up rotation (180 degrees)
- O= Unchanged circle.
- L= Left rotation (90 degrees)
- R= Right rotation (90 degrees)



Summary with oscillation routes : ( ↔ ) or the definite Graviton decay route ( → ).

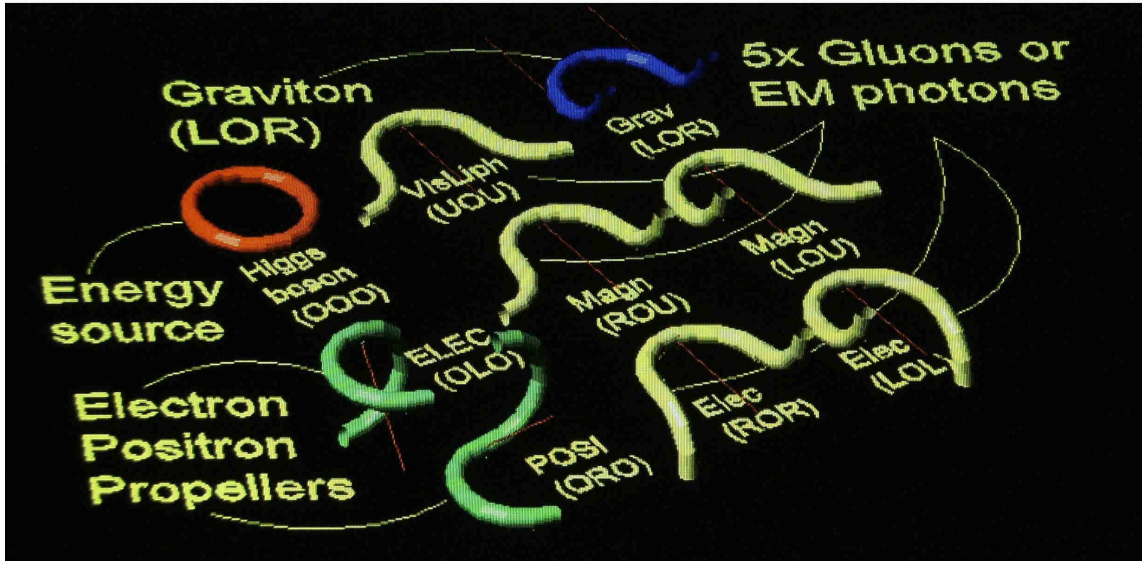
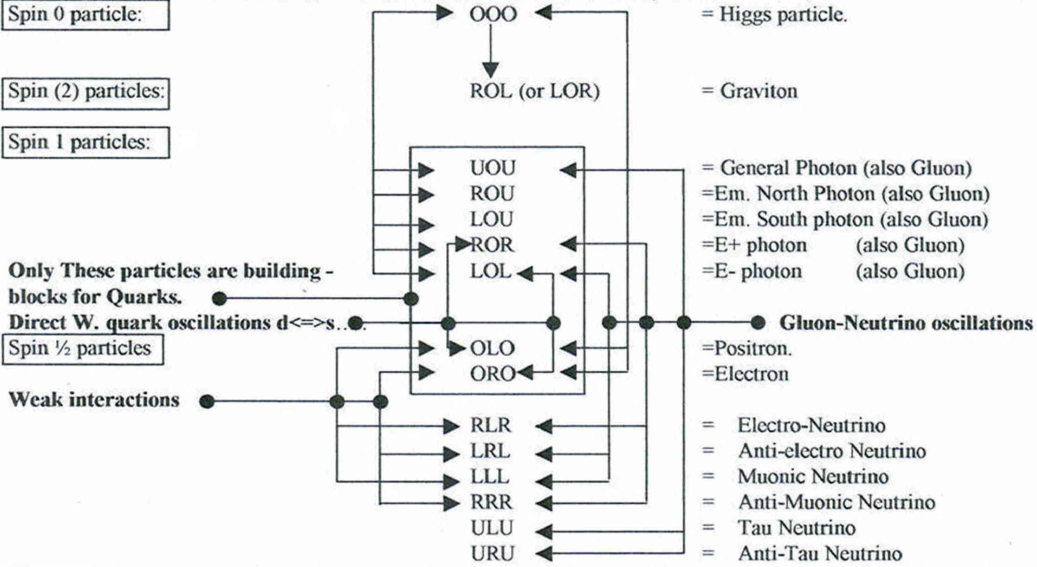


Figure 4, Particle Family relation by the Variability in steps of the Higgs ring shape rotating over three hinges, with Left-Right-Down-Up (LRDU) possibility. The variability in steps ( see arrow relations above) indicating that e.g. Neutrinos can only be created by the transformation of electrons- positrons or photons and not directly out of a Higgs particle.

The difference between the UP and Down atom.

Dual Spin of the Propeller Shaped Electron, Combined with the UP or DOWN atomic rotation

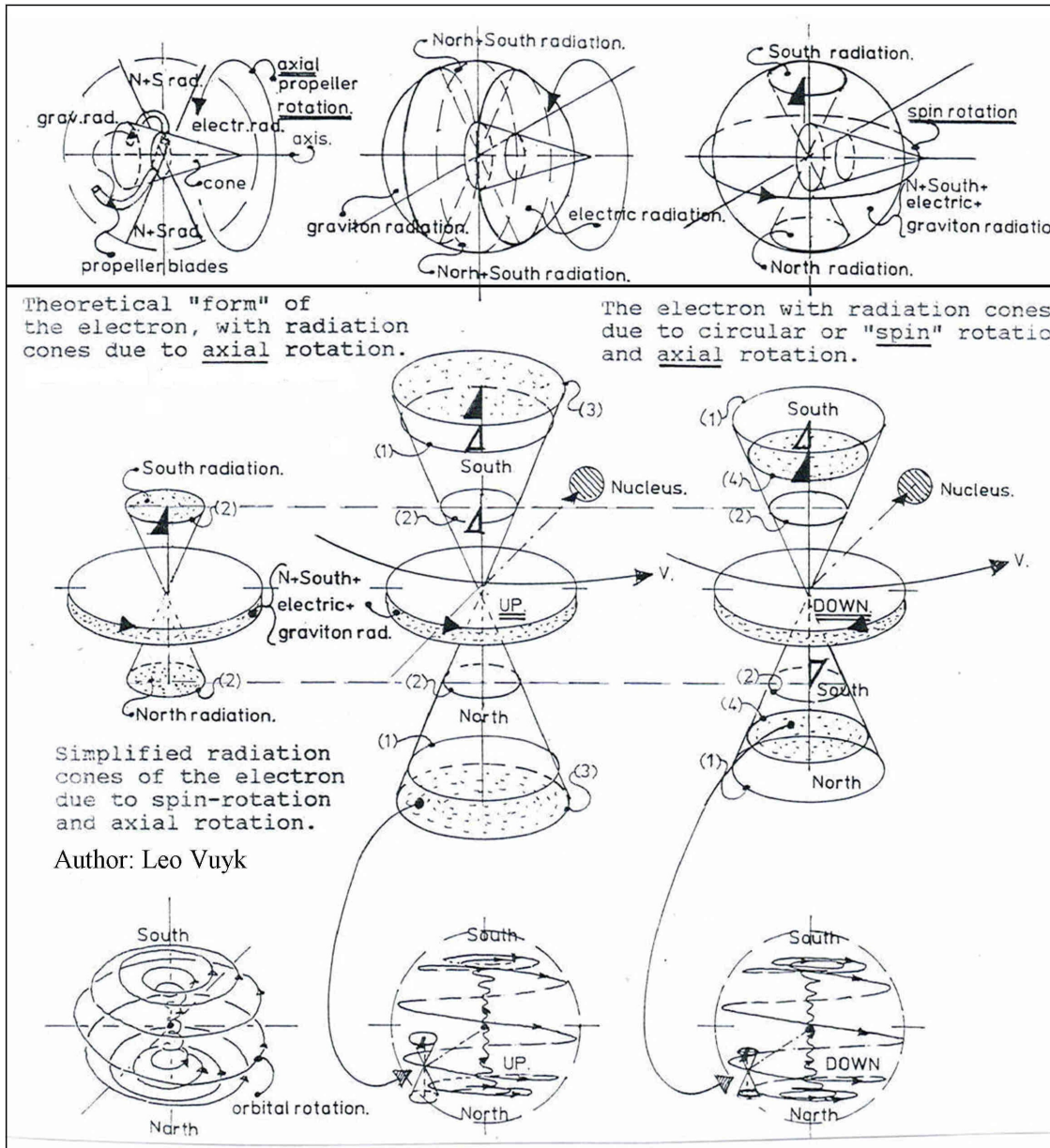
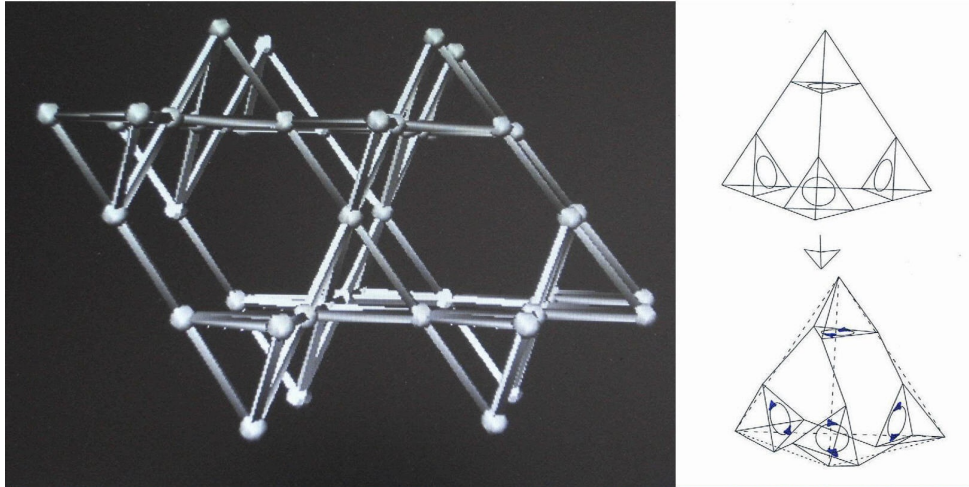


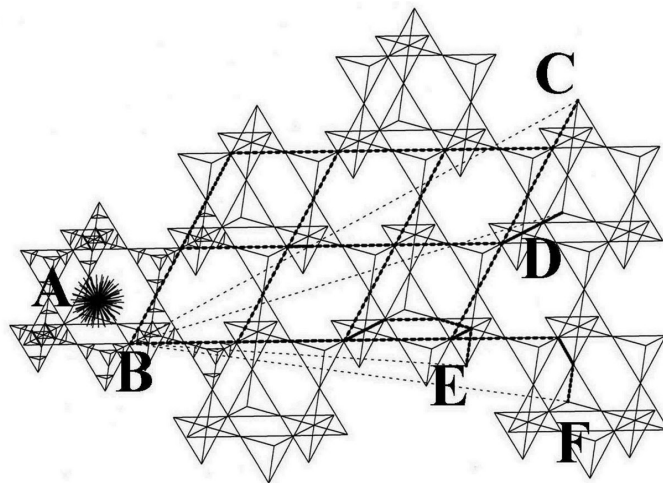
Figure 5, Dual spin of the propeller shaped electron, in combination with the Up or Down atomic rotation around the atomic nucleus. The magnetic monopole radiation of the UP electron is stronger than the DOWN electron with opposite spin.

**The chiral (left or right handed ) Tetrahedral Vacuum Lattice is the origin that we live in a material universe. The lattice spiral informs fermions that atoms are equipped with electron shells instead of positron shells.**



Simplified tetrahedral vacuum lattice structure (left), constructed by complex chiral tetrahedral building blocks (right). Each universe has to choose between a left- or righthanded rotation of its tetrahedral building blocks. Each chiral lattice has the Planck length and is supposed to be equipped with at least two oscillating massless new Higgs particles.

**Figure 6. 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.

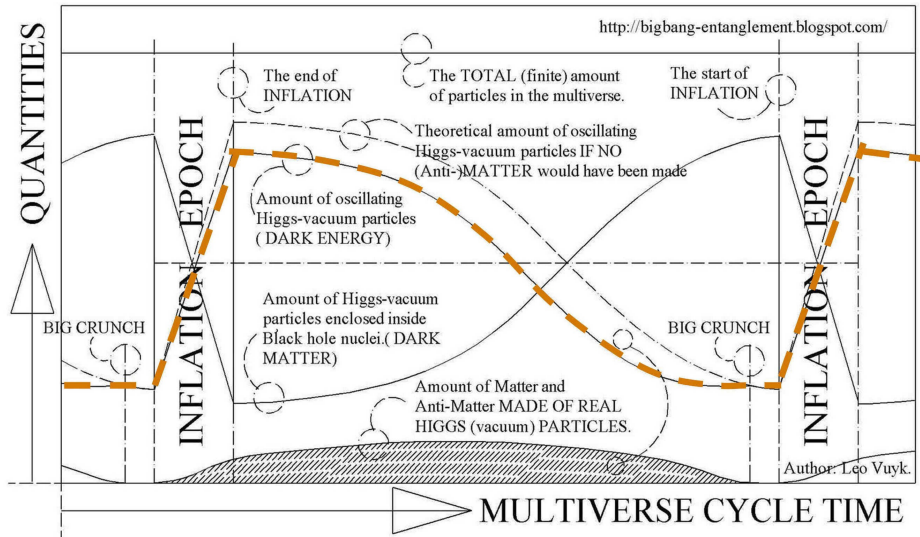
Five different shaped Gluons after some distance are called Photons.

Thus five different shaped Photons start their journey as Gluon. Author: Leo Vuyk.

**Figure 7. Wavefunction propagation and collapse inside the vacuum lattice.**

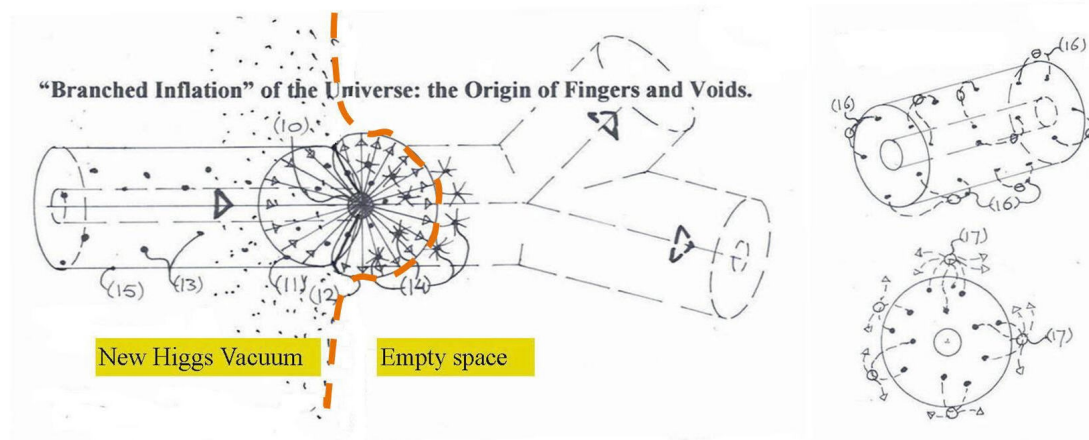
## The CPT SYMMETRIC MULTIVERSE CYCLE.

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 Black Hole Big Crunch (BCBH) is able to explode again, if the oscillating Higgs Vacuum pressure on the BCBH nucleus decreases and equalise with the internal BCBH nuclear energy of the Higgs tension.

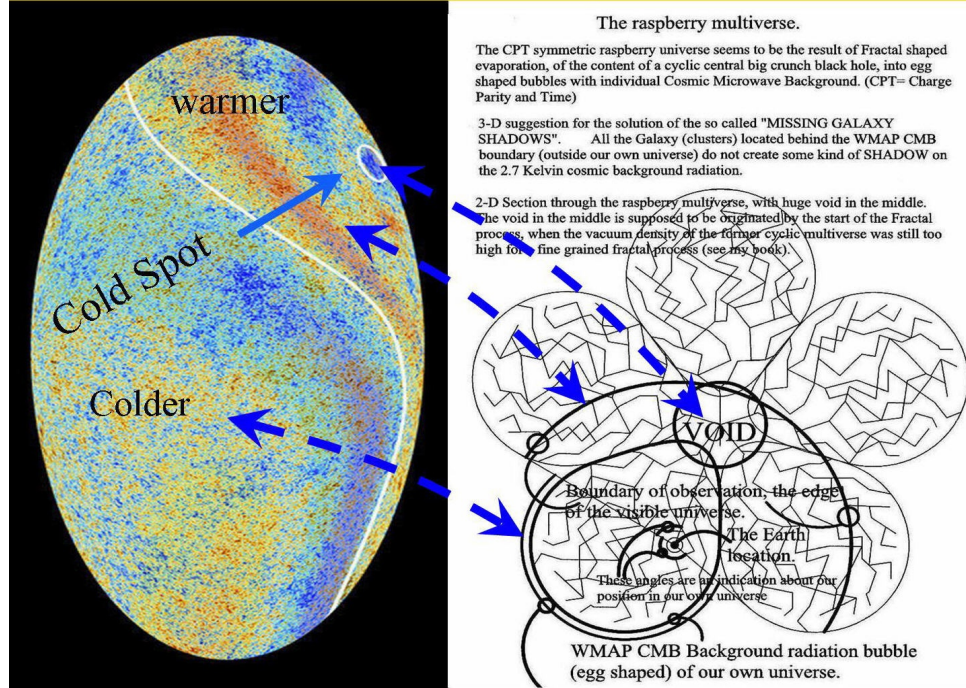


The origin of the Lyman Alpha Forest (15) and Higgs vacuum, by the splitting of the Big Bang Black Hole (BBBH) into smaller Splinter BHs (10). The splinter BHs (10) evaporate into smaller evaporating black holes at the Front (14) which compensate the pressure from the Backside splinter BHs (11). The 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 behind black hole splinters as Galaxy Anchor black holes (GABHs, 13) and is supposed to be the origin of the Lyman Alpha forest after a pairing and splitting process (17) to form dumbbell systems leading to Birkeland currents as accelerators of gas concentration in between (17). Conclusion, the Fractal shaped Lyman Alpha Black hole based structure was created first after the Big Bang, before all the matter in our Universe came into being by pair formation around these GABHs. ( ref. 5)

## Two examples of anomalies in support of the Quantum FFF model.

Comparison of the Final ESA CMB Planck map with a cross section through the Raspberry Multiverse according to Quantum Function Follows Form theory. Compare the Cold Spot with the Void and the Warmer and Colder Hemisphere of the Plack CMB (left) with observation boundaries (right)



**Figure 10. Recent Planck Cosmic Background radiation pattern have clear anomalies pointing into the direction of a Raspberry shaped Multiverse.**

Comparison of the Final ESA CMB Planck map with a cross section through the Raspberry Multiverse according to Quantum Function Follows Form theory.

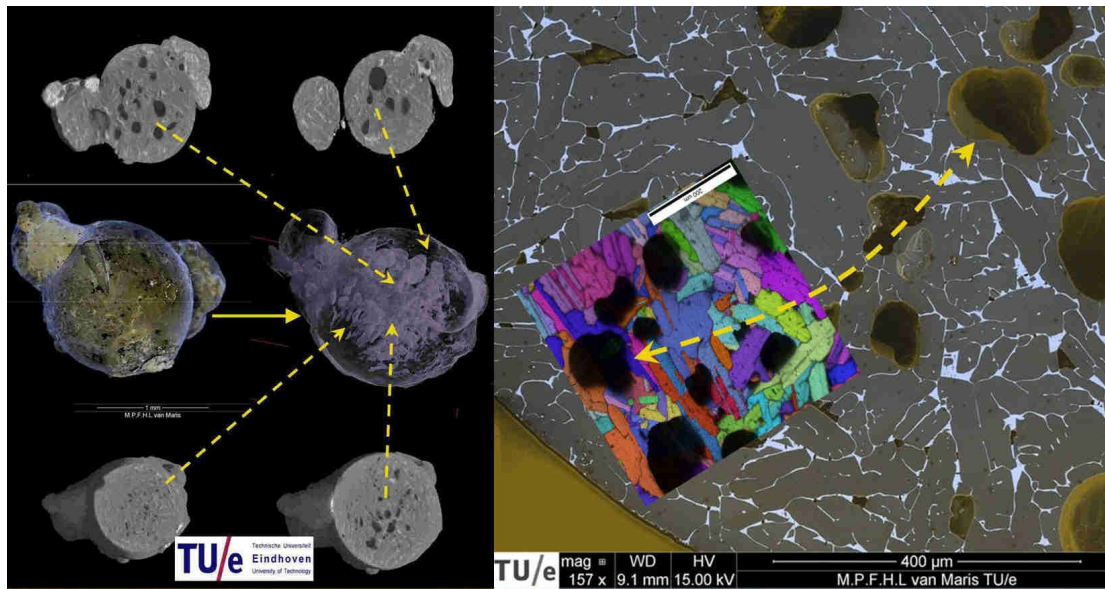
Compare the Cold Spot with the Void and the Warmer and Colder Hemisphere of the Planck CMB (left) with observation boundaries (right)

Conclusions:

- 1: The Warmer Hemisphere seems to be much smaller than the Colder Hemisphere!!
- 2: The white line between the Colder and Warmer Hemispheres is in fact a circle.
- 3: The Cold Spot location is located far from the Zenith of the plane constructed by the White circle line.

SO: the Sun's location inside the Universal Egg is exactly fixed.

Future research will prove that the "Sunyaev-Zel'dovich Galaxy clusters" are all located in the warmer hemisphere and as a consequence in a neighboring universe outside our own Universal EGG.

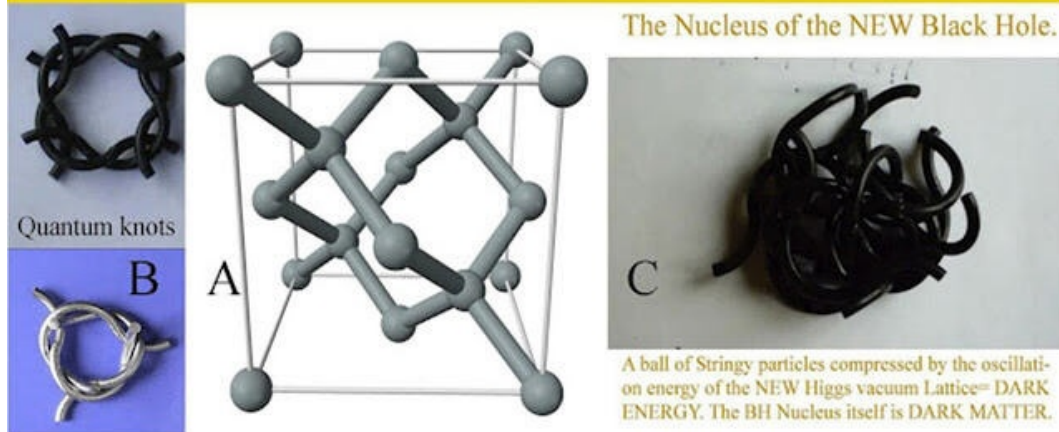


Left: internal Silicon globule structure made by CT nano scan at the University of Eindhoven (NL). Internal hollow channels are observed. According to Quantum FFF theory these channels are postulated to be left behind by traveling and evaporating “Quantum Knots”. Right: Details of the internal structure of the silicon globule, with two different measurements: by SEM imaging (grey color) and EBSD imaging (colored inset) also by TU Eindhoven.

**Figure 11. Silicon globules, created by High current discharge through silicon wafers, showing anomalous internal channels in combination with small scale randomly polarized crystallization areas.**

**Nano Black Hole or Quantum Knot creation (B) and more complex Knots (C) by internal silicon Structure interference capacity (A).**

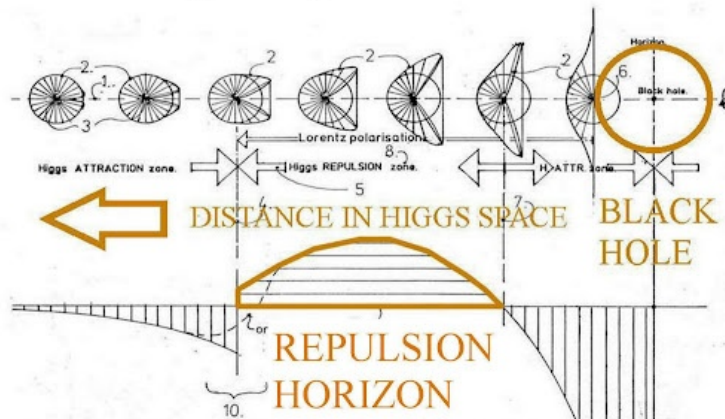
Why Silicon? Silicon structure (A) seems to be related to the structure of Black Hole Quantum Knots (B) proposed by the New Black Hole paradigm of Quantum FFF Theory. Basic Black Hole Quantum Knots are assumed to be formed by 3,4 or more real photon particles (B+C)



**Figure 12. the black hole knotty nucleus (Dark matter) is a ball of Higgs particles compressed and condensed by the oscillating Higgs vacuum energy (Dark energy). However the vacuum Dark energy (Casimir pressure) seems to be able to decompose or evaporate these Quantum Knots back into the oscillating Higgs vacuum, as is observed in the silicon channels of fig 11.**



## 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 dark matter 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. The transition boundary (7) is the second border line of the Fermion repulsion zone..

**"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]. [http://vixra.org/author/leo\\_vuyk](http://vixra.org/author/leo_vuyk)  
**Description of Quantum-FFF theory in several essays below.**  
 [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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