Galaxy Cluster Merging and Vacuum Absorption by black holes as a Support for a Contracting Universe.

Leo Vuyk, Architect, Rotterdam, the Netherlands.

Abstract,

According to Quantum Function Follows Form Theory, the big bang was the evaporation and splitting of a former Big Crunch black hole nucleus of compressed Axion Higgs particles into the oscillating Axion /Higgs field vacuum lattice respectively chunky nuclei of dark matter black holes.

At the same time this explosion should remain symmetric by entanglement and not only produce material universes but also anti material universe bubbles in the form of a raspberry, the multiverse.

As a consequence, of a cyclic multiverse we should be able to find signs of a contracting process inside our own universe.

One of that signs is the well known merging of galaxies into clusters and Galaxy cluster merging into galaxy super clusters.

However it is still not observed that the vacuum space between the galaxy super clusters is also contracting.

The Hubble redshift we observe, is the main objection for such a contracting vacuum system which is adopted by the physics community as a sign for the expansion of the universe. The Hubble redshift is not a definite signal for expansion if we adopt that the redshift is also

subjected to a process of vacuum absorption by proliferated chunks of "new physics" electric dark matter black holes.

Recently I found that the merging of galaxy clusters itself show dynamic observational signs of a contraction of the vacuum inside the merging galaxy clusters by **the anomalous central clustering of the dark matter black hole content which seems to be stripped from the individual galaxy clusters located at the borders of the new super cluster.**

(see Abell 520 and bullet cluster: "no inertia effect of dark matter black holes".)

If there is vacuum absorption inside galaxy clusters, then we also may assume that the universal vacuum between galaxy clusters should be also subjected to this absorption process, as a sign for universal contraction leading to a big crunch black hole.

Introduction,

In particle physics it is an interesting challenge to postulate that the FORM and structure of elementary particles is the origin of different FUNCTIONS of these particles.

The model which is the result is called "Quantum Function Follows Form" model. As a consequence, the standard model should be extended with changes for an alternative electric dark matter black hole, quantum gravity, the mass related local lightspeed, and topological superconductive dark energy Axion/Higgs vacuum etc.

The massless Axion-Higgs particle itself is supposed to be the base for an discrete energetic oscillating space lattice with the Planck scale and the origin of Casimir pressure effect as one counteracting pressure half of all forces in nature such as a repulsive quantum gravity or magnetism.

The other half of all forces is supposed to be created by the opposing repulsive force on fermions of open rigid monopole photonic space oscillating vacuum lattice particles. (see quantum gravity: figure 19.)

Occam's razor seems to be not needed here to create an ontological sound mechanism. As a consequence, a singularity (black hole) is depicted as a complex knot of different shaped rigid Axion Higgs particles and the Big Bang singularity black hole is supposed to contain all the particles which lived before in a former universe.

According to Quantum FFF Theory however, the LHC Higgs particle of 124-126 GeV is not supposed to be the single massless Axion Higgs in the form of a closed torus rigid string, but as the smallest rigid string knot to form the smallest black hole nucleus.

The dual mass between 124 and 126 GeV, is assumed to be originated by the dual mirror symmetrical shape of the Higgs knot in relation with the chirality of the vacuum lattice .

Observed dual LHC signals of 124-126 GeV Higgs

The chirality of our material universal vacuum lattice formed by the massless Axion/Higgs oscillating dark energy field, is supposed to be the origin of these different masses. According to Quantum FFF Theory.



Figure 1 Rigid stringknots representing the dual semi massive Higgs black hole of 124 and 126 GeV.

Dark Matter Black holes EAT the dark energy Axion-Higgs vacuum lattice as the origin of the Hubble redshift. According to Quantum Function Follows Form Theory.

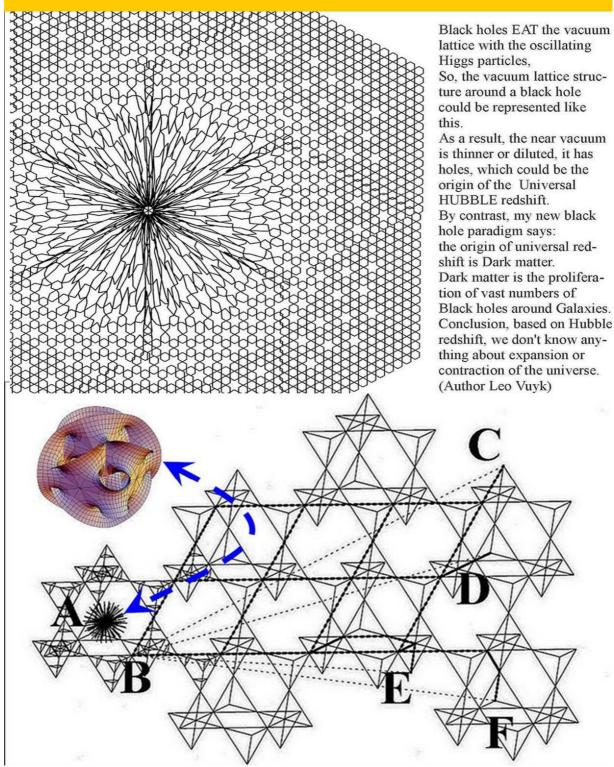
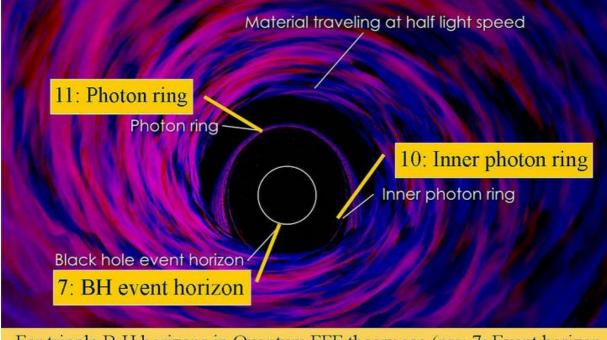
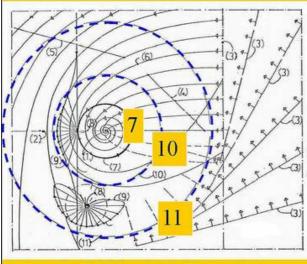


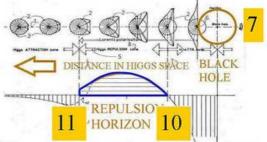
Figure 2, Dark Matter Black holes EAT the dark energy Axion-Higgs vacuum lattice as the origin of the Hubble redshift. According to Quantum Function Follows Form Theory.

Tripple Black Hole horizons found by NASA in accordance with Quantum FFF theory..



For tripple B-H horizons in Quantum FFF theory see (nrs: 7: Event horizon, 10: Inner photon ring, (10+11 =Fermion repulsion zone) 11: Photon ring)





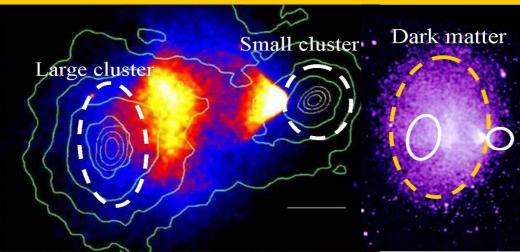
7x Higgs quantum curves (2) are depicted for Fermions (3) with different distance to the BH At location (10) the spin of the fermions will to the propeller shape of the Fermion and an for poposing force away from the horizon is created by the Higgs vacuum itself down to location (7). The zone between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

1: Non rotating Black hole nucleus (in 2D cross section).

- 2: Reference axis for trajectories 4,5 and 6.
- 3: Other incoming photonic/Higgs fronts (without depicted trajectories)
- 7: High photon energy collider globular shell, with intense Quantum
- effects like pair production (e-,e+). 8: test masses.
- 9: Butterfly shaped Higgs/photon Fermion pushing curves in 2D.
- 10 and 11: Fermion repulsion zone. Due to the propeller shape of the
- Fermions, they will experience a so called "Spin Flip" in this zone.

Figure 3. New physics Fermion repelling dark matter black hole horizon in contrast with Vacuum eating black hole.

No Inertia Effect in Dark Matter System of the Bullet Galaxy Cluster



The smaller galaxy cluster is moving away (to the right) from the larger galaxy cluster (left) after collision. Hot gasses are left behind in between. However both dark matter systems seem to have merged and concentrate around the larger galaxy cluster. **The smaller cluster lost most dark matter content to the larger cluster.**

Conclusion:

1:Larger dark matter systems seem to be able to attract and merge smaller dark matter systems.

2: dark matter has smaller or even NO inertia effect than baryonic matter.

3: Dark matter systems tend to clumpiness and eventual decelerate smaller colliding clusters.

In line with Quantum Function Follows form Theory.

Figure 4, No Inertia Effect in Dark Matter of the Bullet Galaxy Cluster

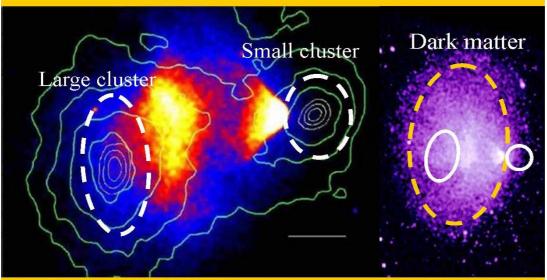
The smaller galaxy cluster is moving away (to the right) from the larger galaxy cluster (left) after collision. Hot gasses are left behind in between. However both dark matter systems seem to have merged and concentrate around the larger galaxy cluster. The smaller cluster lost its dark matter content (dark matter black holes) to the larger cluster. Conclusion:

1:Larger dark matter systems seem to be able to attract and merge smaller dark matter systems.

2: dark matter has smaller or even NO inertia effect than baryonic matter, only Fermions have.

3: Dark matter systems tend to clump into growing black hole nuclei, they merge and decelerate smaller colliding clusters. In line with Quantum FFF Theory.

Dark matter merging dynamics of the Bullet Cluster before and after collision.



The smaller cluster (bullet) lost most dark matter content to the larger cluster. (A, B, C) It is assumed that the smaller cluster will decelerate and return to merge and unite.

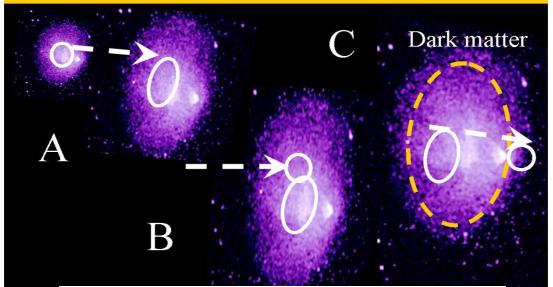


Figure 5, Dark matter merging dynamics of the Bullet Cluster before and after collision.

The smaller cluster (bullet) lost most dark matter content to the larger cluster. (A, B, C) It is assumed that the smaller cluster will decelerate and return to merge and unite. see: Electric Dark Matter Black Holes Outside and Inside Galaxies possibly related to the creation and contraction of a Cyclic Universe. see: <u>http://vixra.org/pdf/1503.0186v5.pdf</u>

Trigital solution for a Universal Rigid String based Quantum Information system, according to Quantum Function Follows Form Theory.

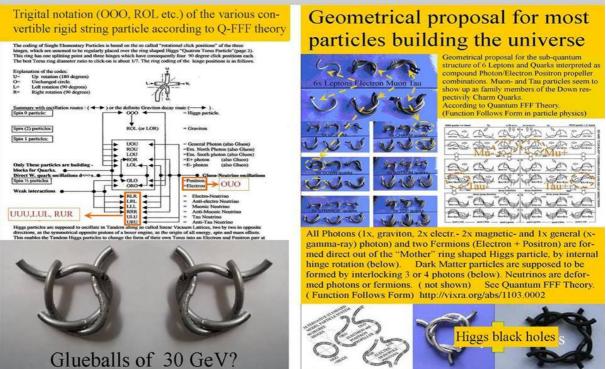


Figure 6, Not a Digital- but Trigital Quantum information system

Non local realism and massless vacuum Axion-Higgs in the multiverse.

Quantum FFF Theory is based on Non-Local Realism and rigid stringy Axion-Higgs particles able to mutate into all other particles.

The CP(T)-symmetrical raspberry shaped multiverse (with 8-12 berries) is non local instant connected down to each quantum. Each quantum can be visualised as a deformed Higgs ring able to convert into other shapes and able to form compound structures like quarks, muons or even Tau leptons. So realism (cogwheels) connected by symmetric non-local instant entanglement.

The basic elements:

 Black holes (BHs) are the same as Dark Matter, they all consume photons, even gravitons and the Axion-Higgs field, (for short: Higgs field) but REPEL Fermions due to their propeller shape polarisation away from the BH. They produce electric charged plasma.
 Dark Energy is the oscillating (Casimir) energy of the massless Axion-Higgs Field equipped with a tetrahedron lattice structure with variable Planck length around black holes..
 Quantum Gravity = Dual Push gravity= Attraction (Higgs-Casimir opposing Graviton push).

4: The Big Bang is a Splitting dark matter Big Bang Black Hole (BBBH), splitting into smaller Primordial Big Bang Spinters (PBBS) forming the Fractalic Lyman Alpha forest and evaporating partly into a zero mass energetic oscillating Higgs particle based Higgs field. 5: Dual PBBSs hotspots, produce central plasma concentration in electric Herbig Haro systems as a base for star formation in open star clusters as a start for Spiral Galaxies.

6: Spiral Galaxies will keep both Primordial Dark Matter Black Holes as Galaxy Anchor Black Holes (GABHs) at long distance.

7: After Galaxy Merging, these GABHs are the origin of Galaxy- and Magnetic field complexity and distant dwarf galaxies .

8: Black Holes produce Plasma direct out of the Higgs field because two rigid massless but mutable Higgs particles are convertible into symmetric electron and positron (or even dual quark-) propellers (by BH horizon fluctuations).

9: The chirality of the (spiralling) vacuum lattice is the origin our material universe. (propeller shaped positrons merge preferentially first with gluons to form (u) Quarks to form Hydrogen with electrons.

10: The first Supernovas produce medium sized Black Holes as the base for secondary Herbig Haro systems and open star clusters.

11: ALL Dark Matter Black Holes are supposed to be CHARGE SEPARATORS with internal positive charge and an external globular shell of negative charged Quark electron plasma.

12: The lightspeed is related to gravity fields like the earth with long extinction distances to adapt with the solar gravity field.

13. Quantum FFF Theory states that the raspberry shaped multiverse is symmetric and instant entangled by so called WORMHOLE BRIDGES (ER=EPR) down to the smallest quantum level between different raspberry berries=universes. Nonlocal entangled down to each quantum and even living or dying CATS in BOXES.

14 Large Primordial Big Bang Spinters (PBBS) are responsible for the creation of the Lyman Alpha forest structure and first spiral galaxy forming of the universe, but they seem to be also responsible for the implosion of the universe at the end in the form of Galaxy Anchor Black Holes (GABHs) located mainly outside galaxies. see: (Quasisoft Chandra sources)

15, As a consequence of 12-14, Time is always local time in combination with cyclic period time of the multiverse.

16, If our material universes has a chiral left handed oscillating Higgs field, then our material Right Handed DNA helix molecule could be explained.

However it also suggests that in our opposing symmetric ANTI-MATERIAL entangled neighbor universe the DNA helix should have a Left handed spiral.

According to Max Tegmark: in an entangled multiverse we may ask: is there COPY PERSON over there, who is reading the same lines as I do?

If this COPY person is indeed living over there, then even our consciousness should be shared in a sort of entangled DEMOCRATIC form.

Then we are not alone with our thoughts and doubts, see:

Democratic Free Will in the instant Entangled Multiverse.

17, All particles and waves should be entangled with anti-copy particles and Higgs field based waves in our opposing anti universes.

Then wave particle duality and the so called one particle double slit interference could be explained by accepting that real shaped 3D photon particles only exist in their function of Gluons. However Gluons should transfer form information to the oscillating luminiferous Axion-Higgs field ether, within about 1 cm distance from a fermion.(see: Babock and Bergman anomaly,1964)

18, Different elementary particles have different qualities by their different complex stringy shape. Leptons and Quarks have a propeller shape with left or right handed pitch creating charge difference. Gluons, Photons and Neutrino particles have no pitch.

20 All particles can be converted to one or more Higgs particles, Lepto Quarks are also compound particles with an exeption for the electron and positron..

21 All particles are assumed to be present as Higgs particles already in the cyclic Big Bang Black Hole (BBBH) after the former multiverse has collapsed into a Big Crunch Black Hole. 22, We seem to live inside one material universal bubble of an instant entangled (Charge Parity Time) CPT symmetric raspberry bubble multiverse. Each quantum jump or wave function collapse or human choice is guided by this instant entanglement at long distant.

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Conclusion, Quantum FFF Theory is based on Non-Local Realism. The CP(T)-symmetrical raspberry shaped multiverse (with 8-12 berries) is non local instant connected down to each quantum. Each quantum can be visualised as a deformed Axion-Higgs ring able to convert into other shapes and able to form compound structures like quarks, muons or even Tau leptons. So realism (cogwheels) connected by symmetric non-local instant entanglement. vixra.org/pdf/1401.0071v2.pdf

It was **Abdus Salam** who proposed that quarks and leptons should have a sub-quantum level structure, and that they are compound hardrock particles with a specific non-zero sized form. **Jean Paul Vigier** postulated that quarks and leptons are "pushed around" by an energetic sea of vacuum particles.

David Bohm suggested in contrast with The "Copenhagen interpretation", that reality is not created by the eye of the human observer, and second: elementary particles should be "guided by a pilot wave".

John Bell argued that the motion of mass related to the surrounding vacuum reference frame, should originate real

"Lorentz-transformations", and also real relativistic measurable contraction.

Richard Feynman postulated the idea of an all pervading energetic quantum vacuum. He rejected it, because it should originate resistance for every mass in motion, relative to the reference frame of the quantum vacuum.

However, I postulate the strange and counter intuitive possibility, that this resistance for mass in motion, can be compensated, if we combine the ideas of Vigier, Bell, Bohm and Salam, and a new dual universal Bohmian "pilot wave", which is interpreted as the EPR correlation (or Big Bang entanglement) between individual elementary anti-mirror particles, living in dual universes.

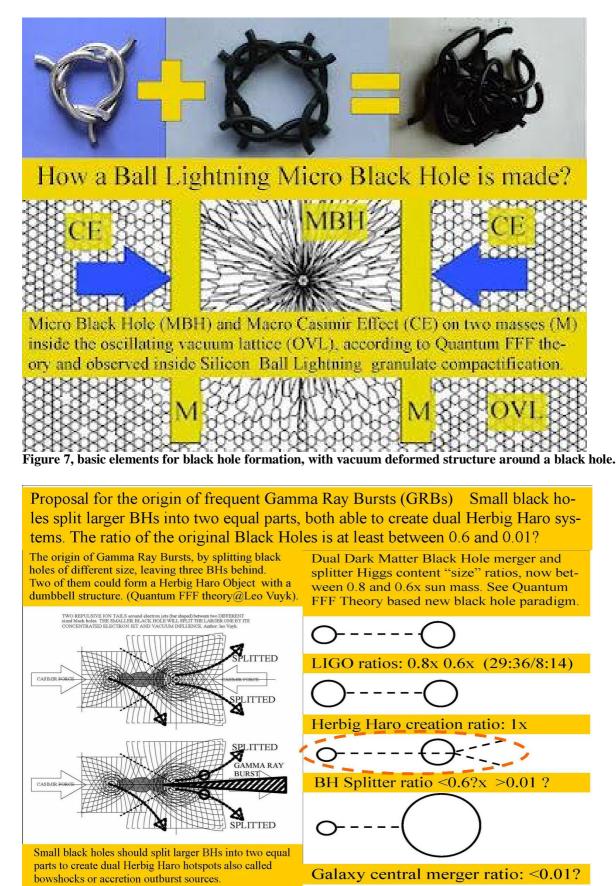
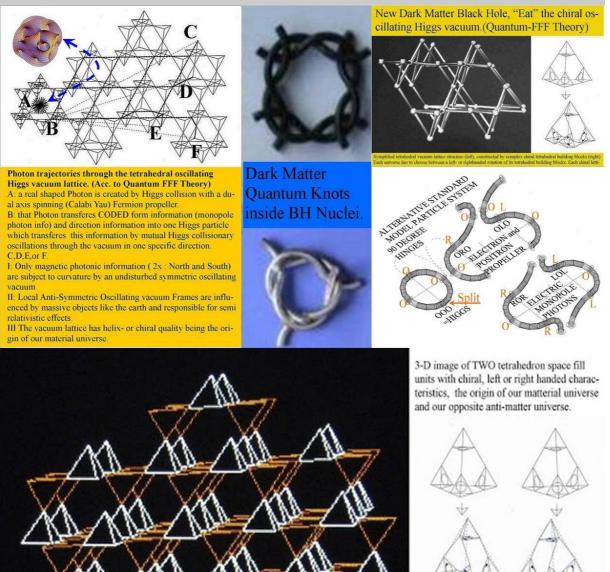


Figure 8, suggestions for black hole nuclear splitting by BH collision.

The massless chiral Axion/Higgs oscillating dark energy vacuum field with a Topological superconductor function.

The massless transformable Axion /Higgs particle is supposed to act as the mother of all single and compound rigid string particles fermions/neutrinos, photons etc.

Topology of the Oscillating Chiral Higgs field vacuum structure, with Dark Matter Quantum Knots inside Black Hole Nuclei, as the second energetic element to make the Multivese a cyclic self organising system.



Truncated tetrahedron space according to the Quantum-FFF model. Each tetrahedron lattice has a spiral shape based on three linear units

Space fill unit with Space fill unit with RIGHT hand rotation. LEFT hand rotation.

Figure 9, Dark energy vacuum field with topological superconductor function for local and inter-universal entanglementas a base for avefunction collapse and democratic free will according to Quantum FFF Theory.

Our position in the 8 or 12 !!! fold raspberry multiverse. Elliptic shaped CMB peak radiations are tell tales. (left). At the rightside a 12 fold symmetric cube octahedron multiverse diagram is depicted with red: matter and green: anti matter entangled universes.

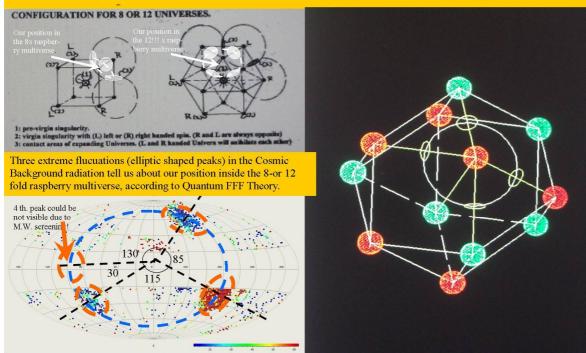


Figure 10, the entangled 8- or 12 fold raspberry multiverse.

The great misconception in Astronomy:

Herbig Haro Bowshocks and Cometary Globules, are not interpreted as Dark Matter Black Holes. See below: Bok– and Cometary Globules with young Herbig Haro Bowshocks in the making in the Carina nebula.

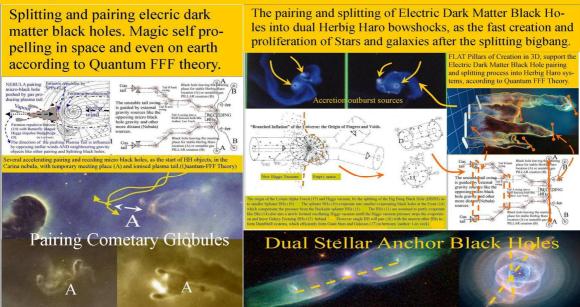
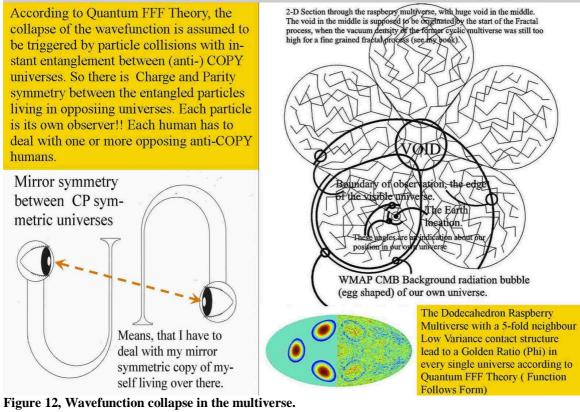


Figure 11, great misconceptions in astronomy and the solution with alternative electric dark matter black holes able to combine into Herbig haro objects with star formation in between.

The Wavefunction collapse in the (CP symmetric) raspberry multiverse by the entangled observation between (anti) copy particles



The great Penrose High-Low Entropy misconception.

Big Bang and Big Crunch originated by the splitting pairing and recycling via merging of cnetral galaxy S-nova black holes . According to Quantum FFF Theory..

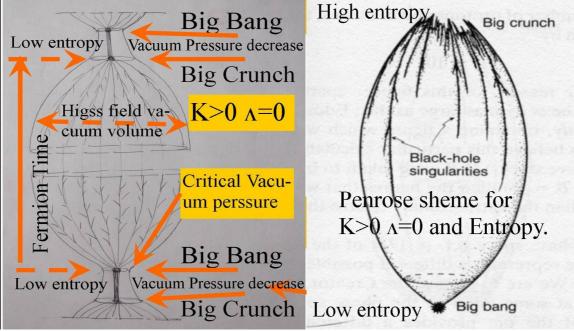


Figure 13, The consequence: a bouncing CP(T) symmetric multiverse.

Micro Comet march 2015. 4-8 plasma tails seem to indicate to be related to 4- 8x clustered sprite fireballs. Regio Perm in g.Kizel.

According to Quanum FFF Theory.



Below several other examples of micro comets and Ball Lightning.

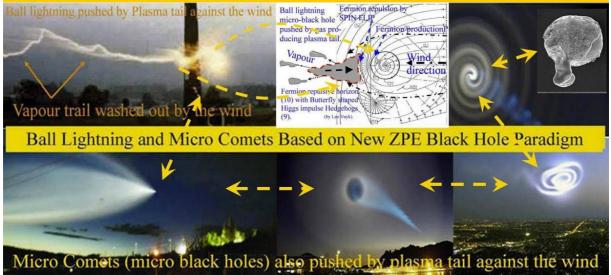


Figure 14, examples of micro black hole based Ball Lightning and micro comets on earth.

This Ball Lightning photo is an important piece of the new physics of Quantum FFF theory. It shows a self produced vapor trail washed out by the opposing wind of the massless BL nucleus, which seem to be pushed against the wind. Just as observed in multiple single- and paring Black Hole examples in nebula like the Carina.

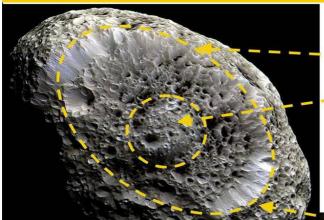
Ball lightning pushed by Plasma tail against the wind Vapour trail washed out by the wind

Other examples of BLs with plasma tails

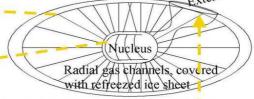


Figure 15, other examples of Ball Lightnings with plasma tails.

Electric Dark Matter Black Hole Comets and Icy remnants (e.g. Hyperion)



Cross section through a Megacryometeor or Terrestrial micro Comet nucleus.



Expected ice structure of the ellipsoidal ice chunk (Megacryometeor) found by J.M.Frais (Madrid). According to Quantum FFF theory this chunk should be the Nucleus of a Terrestrial Micro Comet, produced by a new paradigm black hole, which left the nucleus through the external hole, in consonance with the ice structure of the Hyperion moon. (author Leo Vuyk)

Hyperion, a Saturn moon⁴⁷ The relation between the Hyperion ice structure and the structure of a Megacryometeor as the result of Micro Black hole ice

production inside both nuclei.



According to Quantum FFF Theory, even Nano interference Black Holes have a radial structured electric potential horizon layer (internal positiveprotons and external negative electrons charged). They produce H2 and water leading to the icy nuclei of Comets, Ball Lightning and Megacryometeors. The origin: a Fermion repulsion horizon of the black hole, see below.

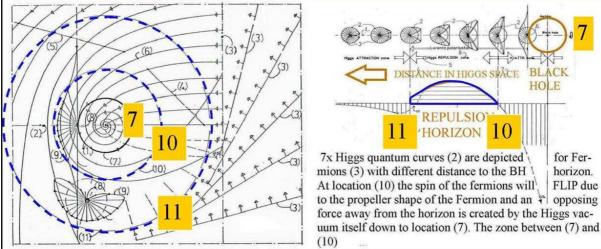


Figure 16, The principle of fermion production (also water) and repulsion around a new paradigm black hole.

Early NGC 3801, a cosmic Miracle?

Not so, in Quantum FFF Theory, if we accept to recognize two GABH's (Galaxy Anchor Black Holes) both in line with the central star forming region.



Secondary and tertiary Dual BH Herbig Haro systems, as the origin of different shaped dwarf galaxies and Star clusters.

Below: Simplification of different sized dual black hole (5) based Herbig Haro Systems with dwarf and (G-SABHs) as former Herbig Haro bowshocks, star formation in between, in the halo of the MW.

Dual Galaxy- and Stellar Anchor Black Holes observed in deep space or Planetary Nebula.

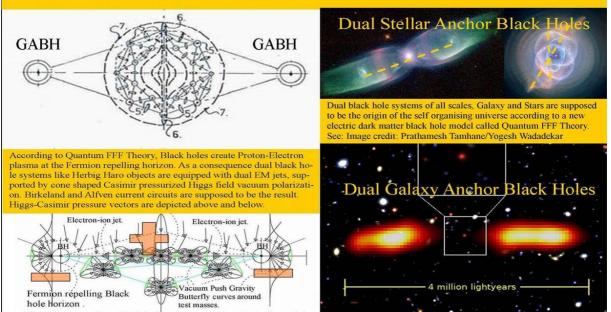


Figure 17, how stars and galaxies are formed bu HerbigHaro systems between two equal sized new paradigm black holes.

Binary Star Production in LMC N55 in a System of Evolved Herbig Haro Black Holes alike Quasar 3C405.

Quasars are early HH systems with plasma creation at the hotspots and a growing forerunner Big Crunch black hole at the center. According to Quantum FFF Theory, all Quasars are produced by the trillions of paired black holes spawn by the big bang and creating early Herbig Haro objects, with star and galaxies forming in between. According to Quantum FFF Theory.

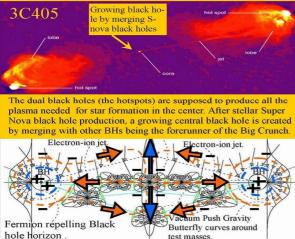


Figure 18, Binary star production .

Distant SABH

Equivalence between gravity and acceleration does not hold in Quantum FFF Theory. Mass in motion needs a reference frame of ZPE oscillating Higgs field and Lorentz polarization of conscious propeller Fermions (s) to keep a non accelerated flight.

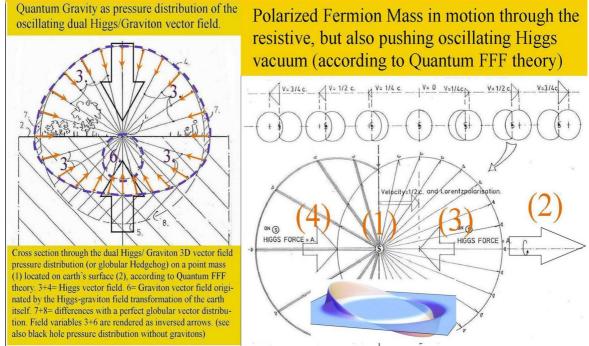
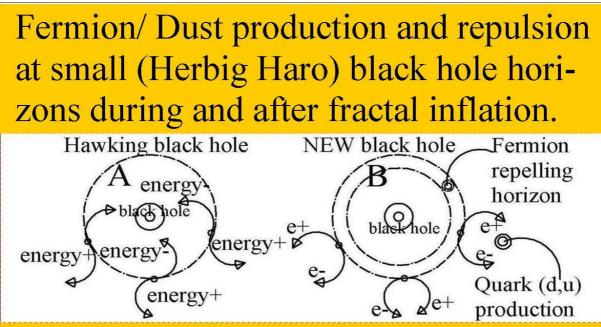


Figure 19, equivalence between gravity and acceleration does not hold in Q-FFF theory.



According to Quantum FFF Theory, there is no fermion information loss, only photonic information loss in a black hole. Quantum fluctuations around the BH horizon produce pairs of leptons. e-,e+ and even compound quarks (d,u, etc, see Fermion 3D string propeller theory: Fermion repelling by spin flip). For tripple BH horizons see image nrs 7, 10 and 11. Event horizon=7, Inner photon ring = 10, Outer photon ring = 11. Conclusion The Big Bang did not produce instantly all the Fermions in the universes. Even now lots of Fermions are produced by all BHs even the largest primordial Big bang splinters located outside large galaxies. see also: http://vixra.org/abs/1410.0039

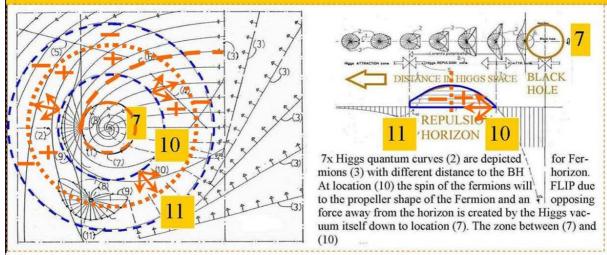


Figure 20, the new electric dark matter Black Hole paradigm.

The New Cyclic Universe with Bang and Crunch.

The Big Bang and Big Crunch originated by Black Hole splitting, pairing and recycling into massive growing central galaxy black holes, according to Qauntum FFF Theory.

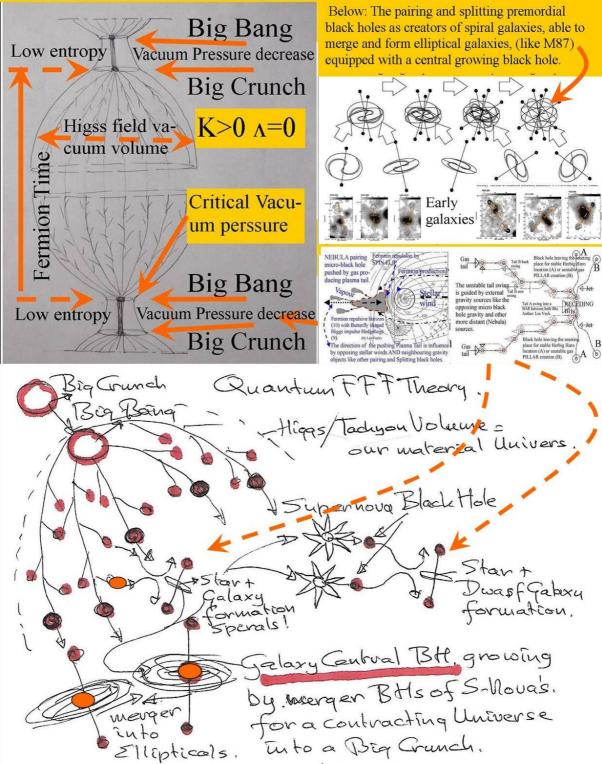


Figure 21, The new Cyclic Multiverse with CP(T) symmetric universes.

High speed gas ejection (Hydra cluster, M82 and Mrk 231) as evidence for external Galaxy Anchor Black Holes (GABHs, according to Quantum FFF Theory).

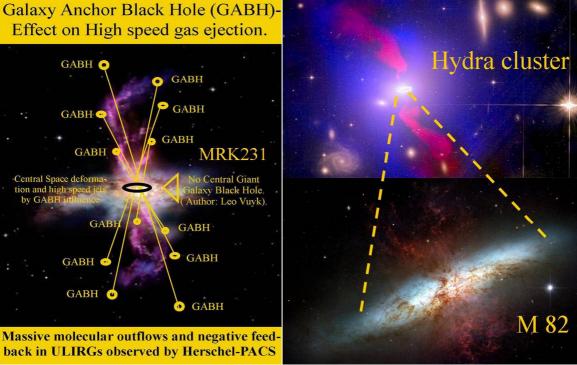


Figure 23, Primordial Galaxy Anchor black holes.

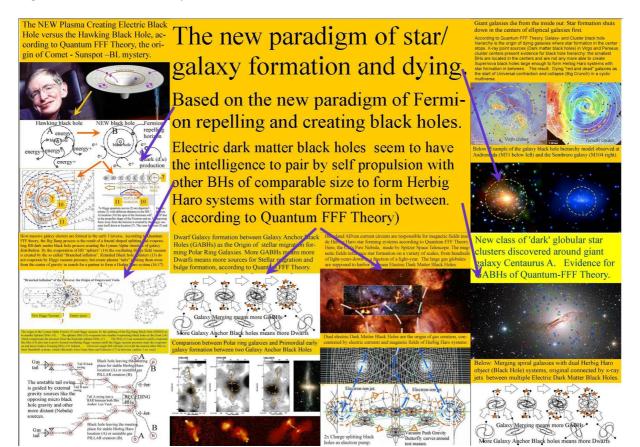


Figure 24, star formation and dying according to Quantum-FFF Theory.

Quantum FFF Theory (Function Follows Form) is based on Non-Local Realism and Rigid String particles guided by dual copy-universal entanglement.



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Figure 25, Quantum FFFTheory in short.

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 17. All particles and waves should be entangled duith anti-copy particles and Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness in the Higgs field based waves in our consciousness energetic oscillating (Law and Plan Brotesta and evaporating particle duily and the so called one particle duile sit interference could be explained by accompany in the sace of the consciousness energetic oscillating Higgs particle based Higgs field.

 5: Dual PBSS botsports, produce central plasma concentrat

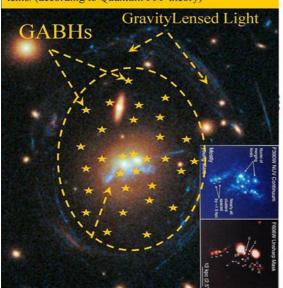
20 All particles can be converted to one or more Higgs particles, Lepto Quarks are also compound parti-cles with an exception for the electron and positron... 21 All particles are assumed to be present as Higgs particles already in the cyclic Big Bang Black Hole (BBFH) after the former multivers has collapsed into a Big Crunch Black Hole. 22, We seem to live inside one material universal bubble of an instant entangled (Charge Parity Time) CPT symmetric rasphery bubble multiverse. Each quantum jump or wave function collapse or human choice is guided by this instant entanglement at long distant.

If our material universes has a chiral oscillating Higgs field, then our material Right Handed DNA helix molecule could be explained. However, I also suggests that in our opposing ANTI-MATERIAL multiverse neighbour universe the DNA helix should have a LEFT HANDED spiral. According to Max Tegrank': no entangled multiverse we may ask: is there COPY PERSON over there, who is reading the same lines as 1 do?

who is reading the same lines as I do? If this COPY person is indeed living over there, then even our consciousness should be shared in a sort of DEMOCRATIC form. Then we are not alone with our thoughts and doubts see: Democratic Free Will in the instant Entangled Multiverse. Conclusion, Quantum FFF Theory is based on Nor-Local Realism. The CP(T)-symmetrical raspberry sha-ped multiverse (with 6-12 betters is is non local instant connected down to each quantum. Each quantum

Distribution of Dark Matter Black Hole point sources in the Milky Way, in line with and support for Q-FFF Theory.

Mystery of the "super string of young stars" around two central merging giant ellipticals in the cluster SDSS J1531+3414 solved by the merging and stabilisation into multiple new star forming Herbig Haro systems of both Galaxy Cluster Anchor Black Holes (GABHs) systems. (according to Quantum FFF theory)



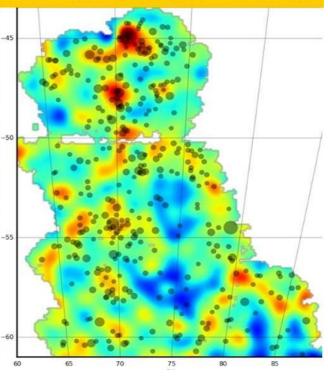


Figure 26,

The cool corus mystery of galaxy clusters: small black holes

The Virgo and Perseus cluster have cool corussus and show unresolved 3.5 KeV radiation. The solution: In these centers only small black holes are pushed to be eaten by the central giant black hole.

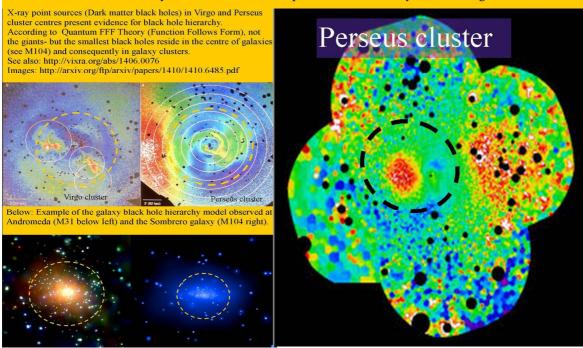


Figure 22

Charge differences of 1/3 and 2/3 between d and u quarks should be originated by the chirality differences with the vacuum.

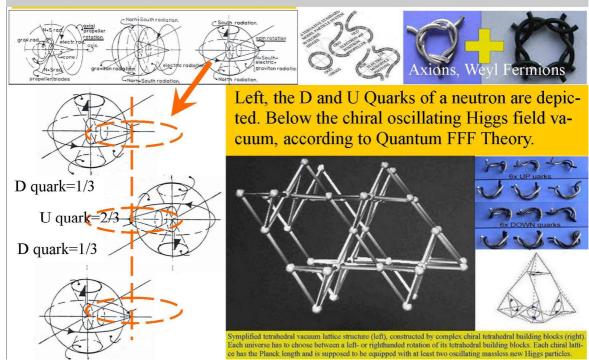
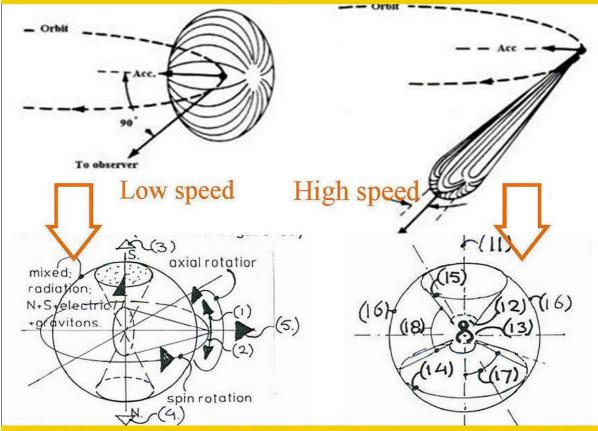


Figure 28, DDU Neutron- Quark configuration

Synchrotron radiation by Polarized Fermion spin combined with high speed motion through the resistive oscillating Higgs vacuum (according to Quantum FFF theory)



The propeller shape of Fermions is the origin of a dual spin state by collision influences of the oscillating masslesss Higgs vacuum at low speeds. (Spin rotation and axial rotation) At high relativistic speed the Lorentz polarization of the Fermion "propeller nose" (1 or 2) is preferently pointing into direction (11) with photon cone focussing into the opposing vacuum direction (15) and the Spin rotation has gone.

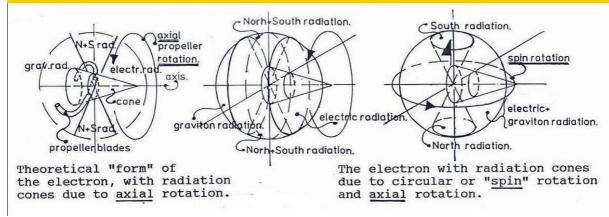


Figure 29, Propeller shaped Fermions and the synchrotron effect.

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