

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

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## 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 .

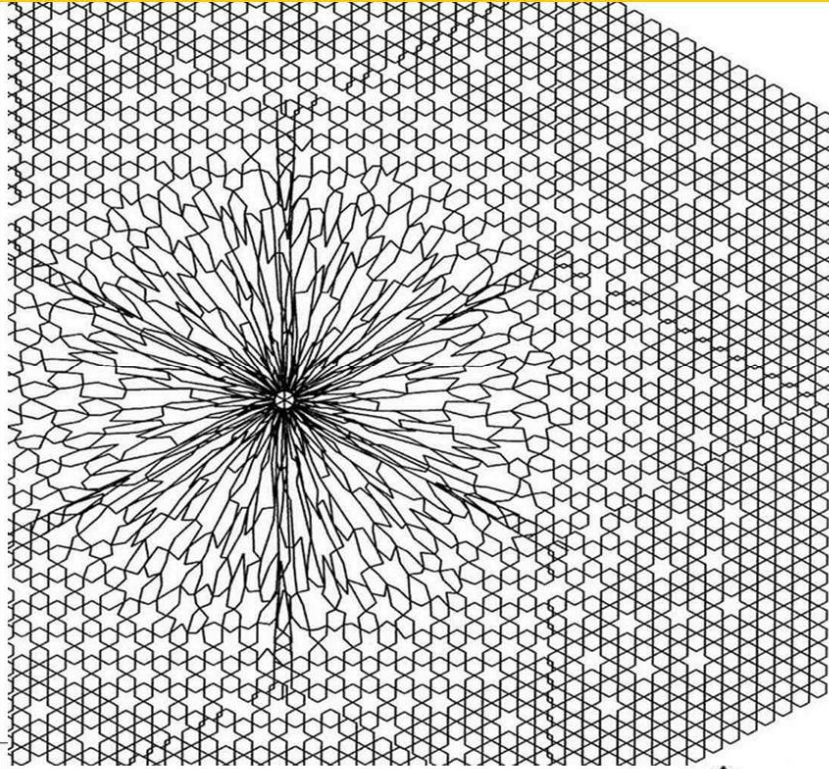
## Observed dual LHC signals of 124-126 GeV Higgs

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.**



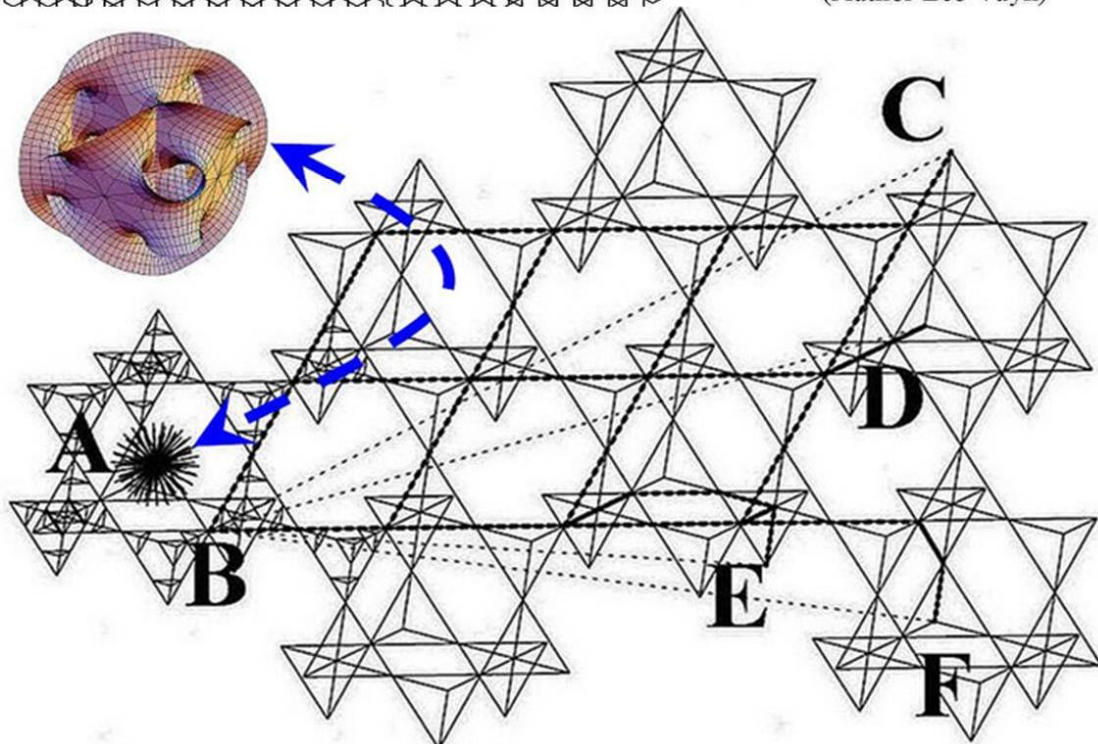
Black holes EAT the vacuum lattice with the oscillating Higgs particles, So, the vacuum lattice structure around a black hole could be represented like this.

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.

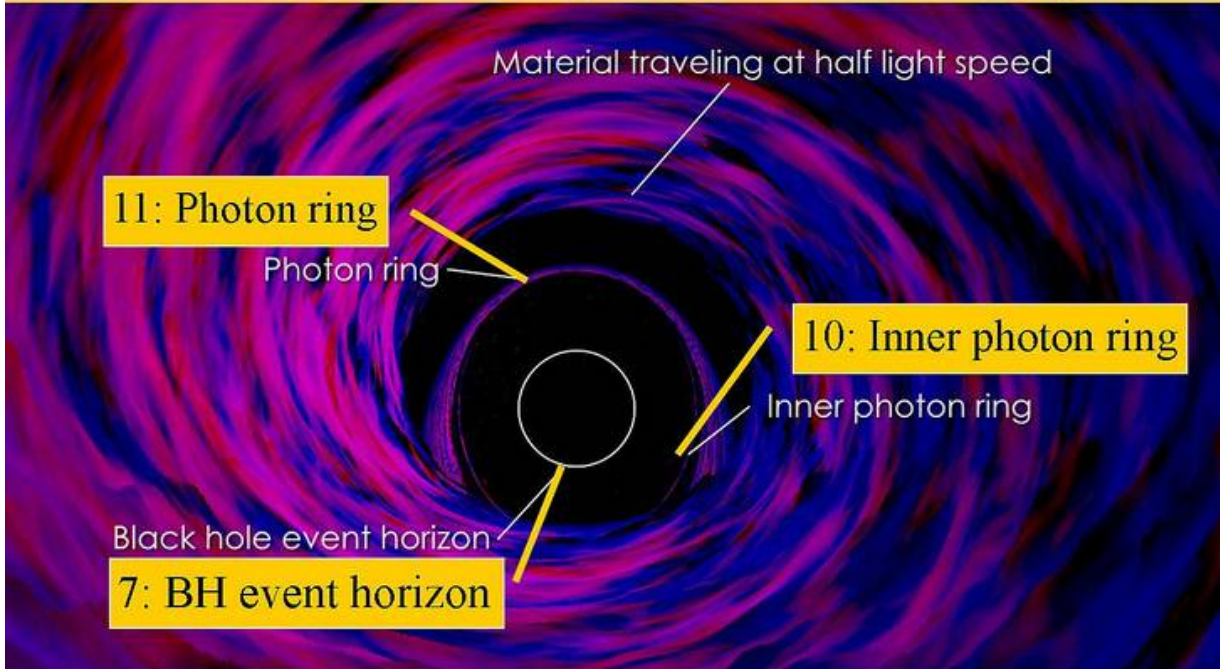
Dark matter is the proliferation of vast numbers of Black holes around Galaxies. Conclusion, based on Hubble redshift, we don't know anything about expansion or contraction of the universe.

(Author Leo Vuyk)

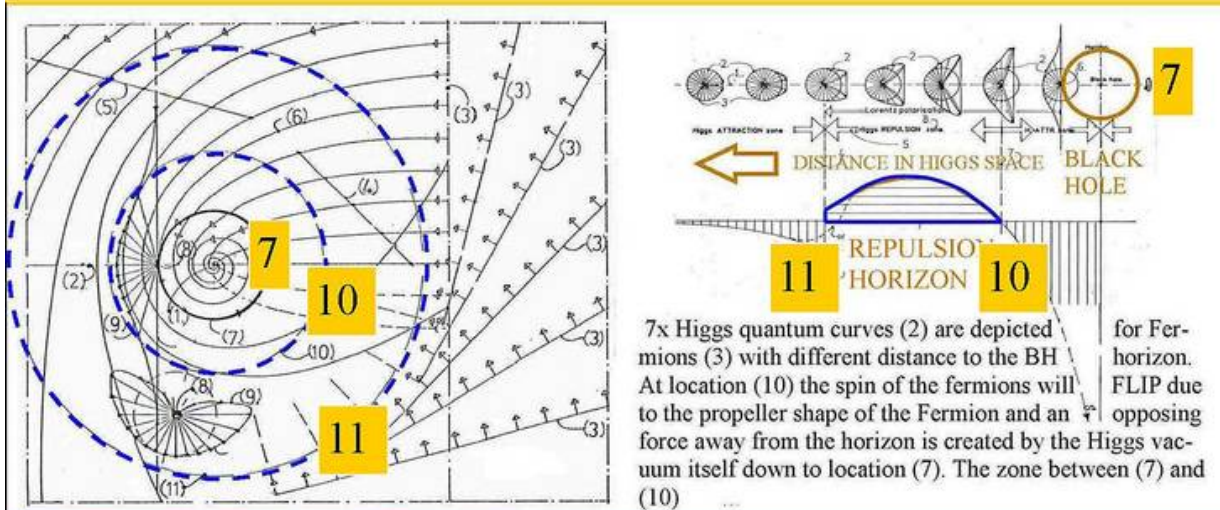


**Figure 2, Dark Matter Black holes EAT the dark energy Axion-Higgs vacuum lattice as the origin of the Hubble redshift. According to Quantum Function Follows Form Theory.**

# 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 )

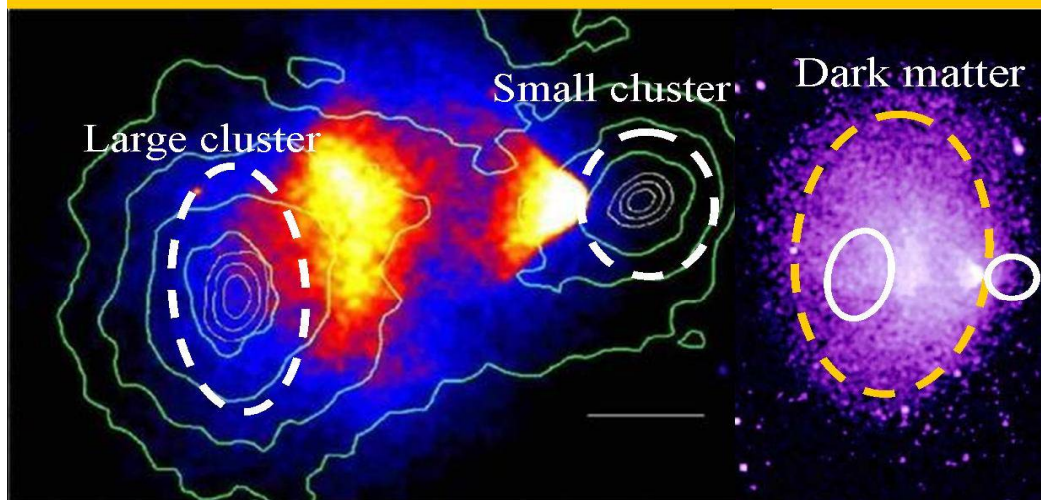


7x Higgs quantum curves (2) are depicted for Fermions (3) with different distance to the BH horizon. At location (10) the spin of the fermions will FLIP due to the propeller shape of the Fermion and an opposing force away from the horizon is created by the Higgs vacuum itself down to location (7). The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

- 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.

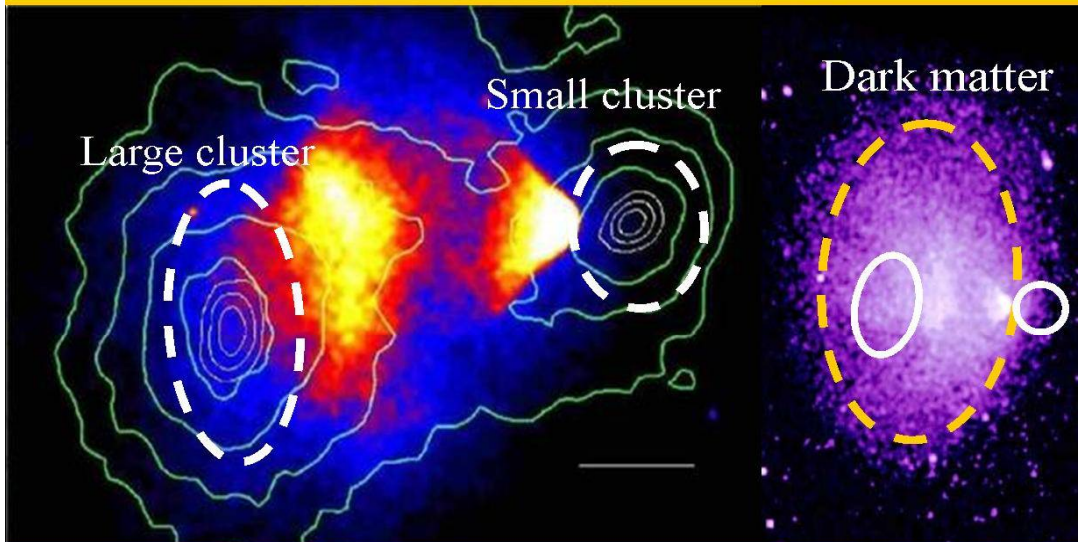
Figure 4, No Inertia Effect in Dark Matter of the Bullet Galaxy Cluster

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.**

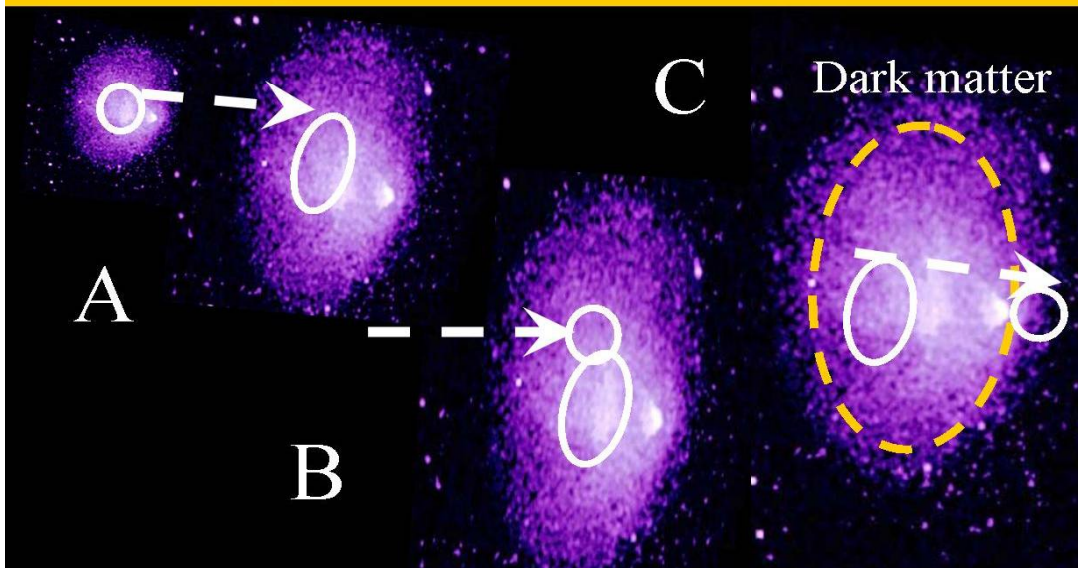


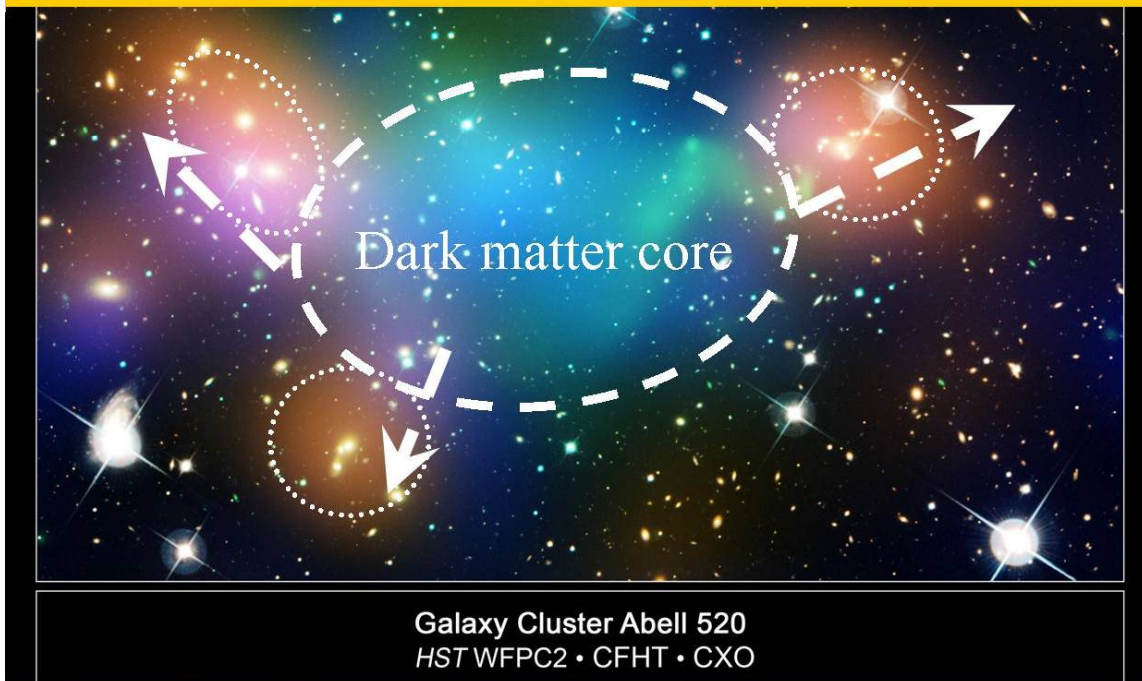
Figure 5, Dark matter merging dynamics of the Bullet Cluster before and after collision.

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: <http://vixra.org/pdf/1503.0186v5.pdf>

Abell 520 Galaxy cluster collision, is a clear example of the clumping of dark matter (black holes) during galaxy passage through the center of the collision. Galaxies lost their Galaxy Anchor Black Holes, ( GABHs)  
In line with Quantum FFF model.



Quotation of Wikipedia: “The dark matter collected into a "dark core" containing far fewer galaxies than would be expected if the dark matter and galaxies hung together. Most of the galaxies apparently have sailed far away from the collision. This result could present a challenge to basic theories of dark matter, which predict that galaxies should be anchored to the invisible substance, even during the shock of a collision “ see also: Bullet cluster with central DM core.

**Figure 6. Abell 520 and the mystery central dark matter core.**

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

**Trigrital notation (OOO, ROL etc.) of the various convertible rigid string particle according to Q-FFF theory**

The coding of Single Elementary Particles is based on the so called "rotational click positions" of the three hinges, which are assumed to be regularly placed over the ring shaped Higgs "Quatron Tonus Particle" (page 2). This ring has one splitting point and three hinges which have consequently four 90 degree click positions each. The best "Tonus" ring diameter ratio to click-on is about 1/7. The ring coding of the hinges positions is as follows.

**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 (→).  
 Spin 0 particles: OOO → Higgs particle.  
 Spin 1/2 particles: UOU, ROU, LOU, ROO, LRO, LLO → Graviton.  
 Spin 1 particles: UOU, ROU, LOU, ROO, LRO, LLO → Graviton.  
 Spin 3/2 particles: UOU, ROU, LOU, ROO, LRO, LLO → Graviton.

**Only These particles are building blocks for Quarks:**  
 Direct W<sub>q</sub> quark oscillations ↔  
 Spin 1/2 particles: UOU, ROU, LOU, ROO, LRO, LLO → Graviton-Neutrino oscillations.  
 Weak interactions: UUU, LUL, RUR, LRL, LLL, RRR, LLU, LRU, LRU, LRU.

Higgs particles are supposed to oscillate in Tandem along so called linear Vacuum Lattices, two by two in opposite directions, as the symmetrical opposite pistons of a boxer engine, as the origin of all energy, spin and mass effects. This enables the Tandem Higgs particles to change the form of their own Tonus into an Electron and Positron pair at



**Geometrical proposal for most particles building the universe**

Geometrical proposal for the sub-quantum structure of 6 Leptons and Quarks interpreted as compound Photon/Electron Positron propeller combinations. Muon- and Tau particles seem to show up as family members of the Down respectively Charm Quarks. According to Quantum FFF Theory. (Function Follows Form in particle physics)



All Photons (1x, graviton, 2x electr.- 2x magnetic- and 1x general (x-gamma-ray) photon) and two Fermions (Electron + Positron) are formed direct out of the "Mother" ring shaped Higgs particle, by internal hinge rotation (below). Dark Matter particles are supposed to be formed by interlocking 3 or 4 photons (below). Neutrinos are deformed photons or fermions. (not shown) See Quantum FFF Theory. (Function Follows Form) <http://vixra.org/abs/1103.0002>





**Glueballs of 30 GeV?**

Figure 7, Not a Digital- but Trigrital 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:

- 1: 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.
- 2: 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..





Gluons. However Gluons should transfer form information to the oscillating luminiferous Axion-Higgs field ether, within about 1 cm distance from a fermion.(see: Babcock 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 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 (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.

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

However it also suggests that in our opposing ANTI-MATERIAL multiverse neighbour 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 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 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](http://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.



## How a Ball Lightning Micro Black Hole is made?

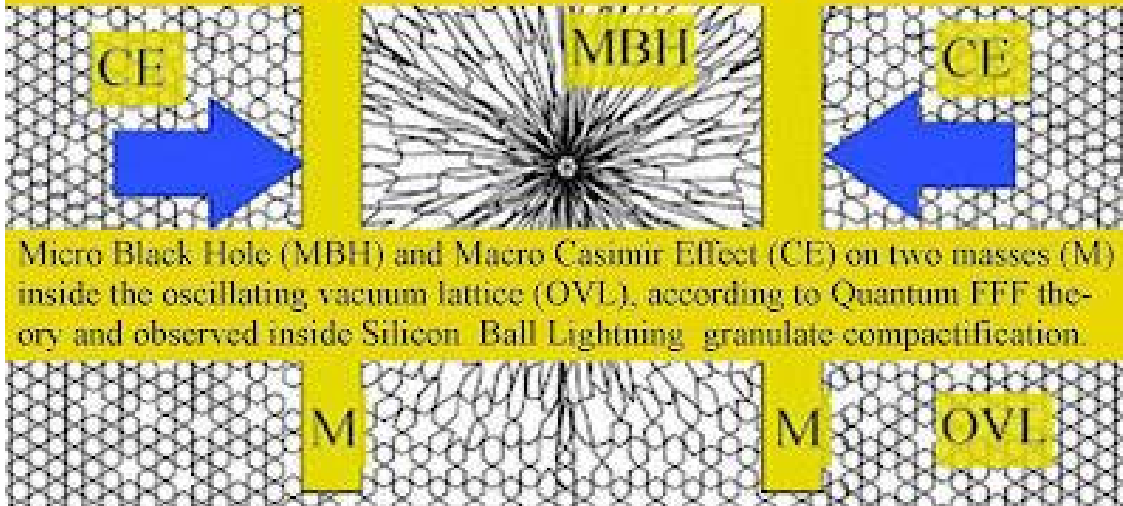
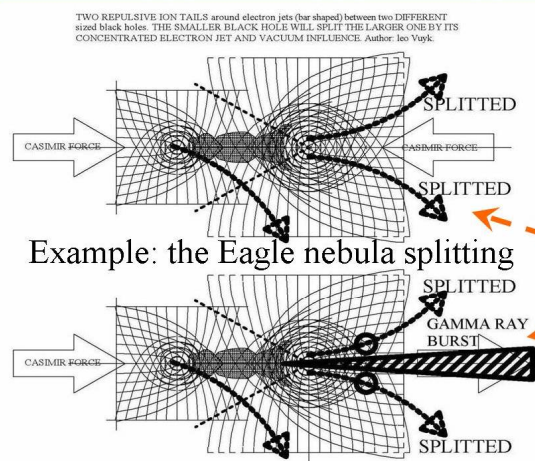


Figure 8, basic elements for black hole formation, with vacuum deformed structure around a black hole.

LIGO based Black Hole ratios and the ability to merge or split into two equal BH parts, able to create Herbig Haro systems and Gamma Ray Bursts. Such splitting systems are observed in the so called Spire part of the Eagle nebula.

The origin of Gamma Ray Bursts, by splitting black holes of different size, leaving three BHs behind. Two of them could form a Herbig Haro Object with a dumbbell structure. (Quantum FFF theory@Leo Vuyk).

Dual black hole merger nominal mass contents observed by LIGO in 2015 and 2016 resp. 29/36x and 7.5/14.2x sun masses. see: Quantum FFF Theory. The related ratios are: 1/1.24 resp. 1/1.9.



1.0//1.24-1.9?

2 LIGO ratios: 29-36/7,5-14.2sun= 1.0/1.24/1.9

1.0// 1.0

Herbig Haro creation ratio: 1x

BH splitting ratio 1.0 >> 1.9-?-50.0?

1.0//>50.0?

Small black holes should split larger BHs into two equal parts to create dual Herbig Haro hotspots also called bowshocks or accretion outburst sources.

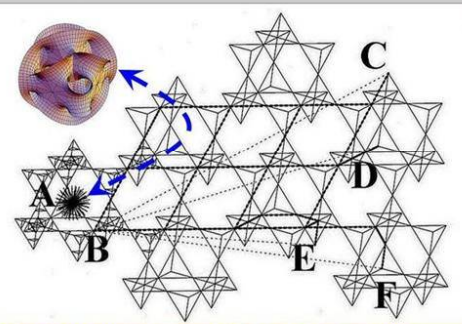
Galaxy central BH merger: 1.0 //>50.0?

Figure 9, suggestions for black hole nuclear splitting and merging by BH nuclear collision of different sizes.

# 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 Multiverse a cyclic self organising system.



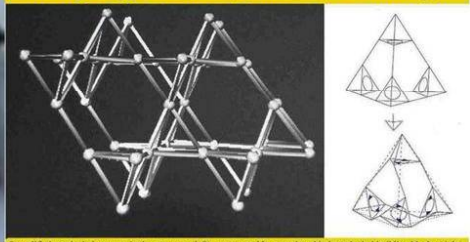
**Photon trajectories through the tetrahedral oscillating Higgs vacuum lattice. (Acc. to Quantum FFF Theory)**  
 A: a real shaped Photon is created by Higgs collision with a dual axis spinning (Calabi Yau) Fermion propeller.  
 B: that Photon transfers CODED form information (monopole photon info) and direction information into one Higgs particle which transfers this information by mutual Higgs collisionary oscillations through the vacuum in one specific direction.  
 C, D, E, or F  
 I: Only magnetic photonic information ( 2x : North and South) are subject to curvature by an undisturbed symmetric oscillating vacuum  
 II: Local Anti-Symmetric Oscillating vacuum Frames are influenced by massive objects like the earth and responsible for semi relativistic effects.  
 III: The vacuum lattice has helix- or chiral quality being the origin of our material universe.



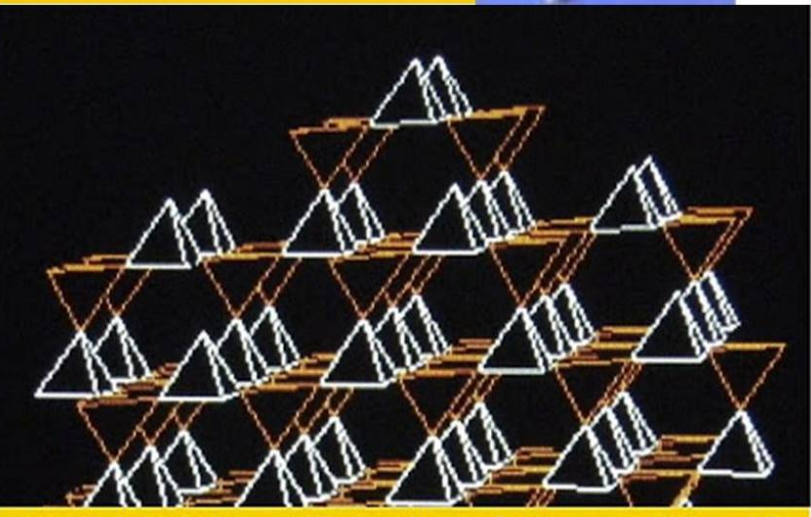
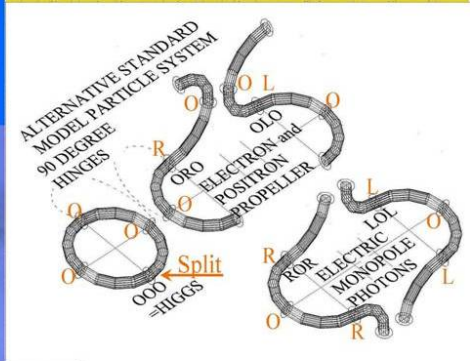
**Dark Matter Quantum Knots inside BH Nuclei.**



**New Dark Matter Black Hole, "Eat" the chiral oscillating Higgs vacuum. (Quantum-FFF Theory)**

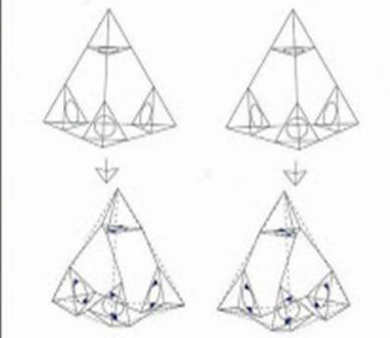


Simplified tetrahedral vacuum lattice structure (left), constructed by complex chiral tetrahedral building blocks (right). Each universe has to choose between a left- or righthanded rotation of its tetrahedral building blocks. Each chiral lattice



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

**3-D image of TWO tetrahedron space fill units with chiral, left or right handed characteristics, the origin of our material universe and our opposite anti-matter universe.**

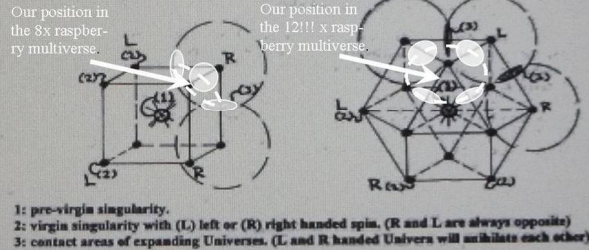


**Space fill unit with RIGHT hand rotation. Space fill unit with LEFT hand rotation.**

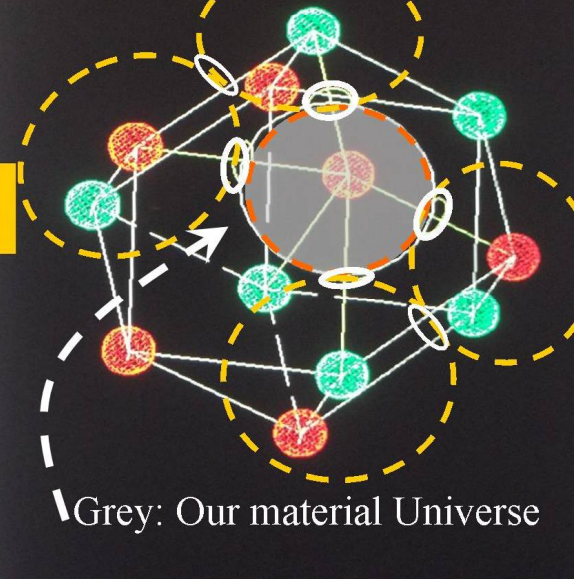
**Figure 10, Dark energy vacuum field with topological superconductor function for local and inter-universal entanglements as a base for a function collapse and democratic free will according to Quantum FFF Theory.**

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.

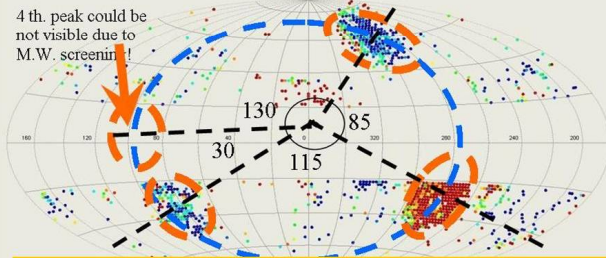
**CONFIGURATION FOR 8 OR 12 UNIVERSES.**



3 , 4 or 5x elliptic Contact areas in the CMB?



Three extreme flucuations (elliptic shaped peaks) in the Cosmic Background radiation tell us about our position inside the 8- or 12 fold raspberry multiverse, according to Quantum FFF Theory.



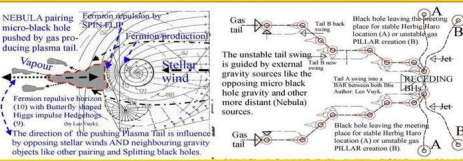
FLUCTUATION ANOMALIES IN THE COSMIC MICROWAVE BACKGROUND. CREDIT: V. G. GURZADYAN AND R. PENROSE.

Figure 11, 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.

Splitting and pairing electric dark matter black holes. Magic self propelling in space and even on earth according to Quantum FFF theory.

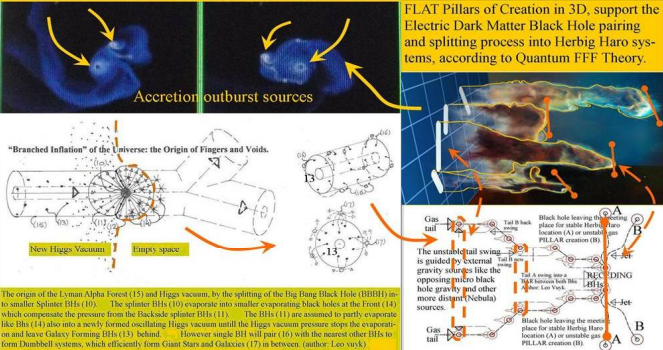


Several accelerating pairing and receding micro black holes, as the start of HH objects, in the Carina nebula, with temporary meeting place (A) and ionised plasma tail.(Quantum-FFF Theory)



Pairing Cometary Globules

The pairing and splitting of Electric Dark Matter Black Holes into dual Herbig Haro bowshocks, as the fast creation and proliferation of Stars and galaxies after the splitting bigbang.



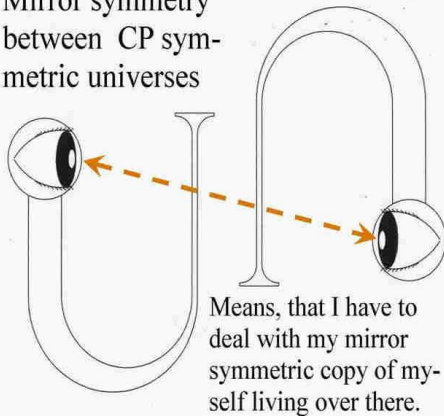
Dual Stellar Anchor Black Holes

Figure 12, 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.

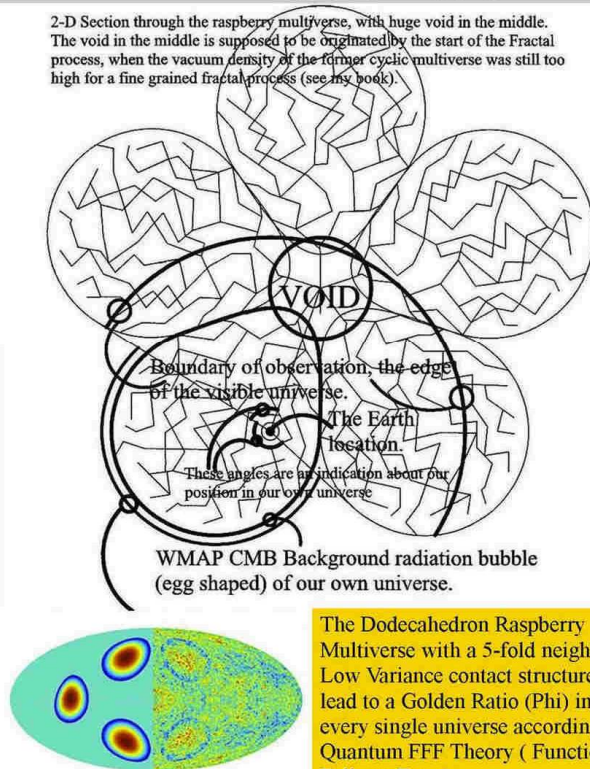
# The Wavefunction collapse in the (CP symmetric) raspberry multiverse by the entangled observation between (anti) copy particles

According to Quantum FFF Theory, the collapse of the wavefunction is assumed to be triggered by particle collisions with instant entanglement between (anti-) COPY universes. So there is Charge and Parity symmetry between the entangled particles living in opposing universes. Each particle is its own observer!! Each human has to deal with one or more opposing anti-COPY humans.

Mirror symmetry between CP symmetric universes



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).



The Dodecahedron Raspberry Multiverse with a 5-fold neighbour Low Variance contact structure lead to a Golden Ratio (Phi) in every single universe according to Quantum FFF Theory ( Function Follows Form)

Figure 13, Wavefunction collapse in the multiverse.

# The great Penrose High-Low Entropy misconception.

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

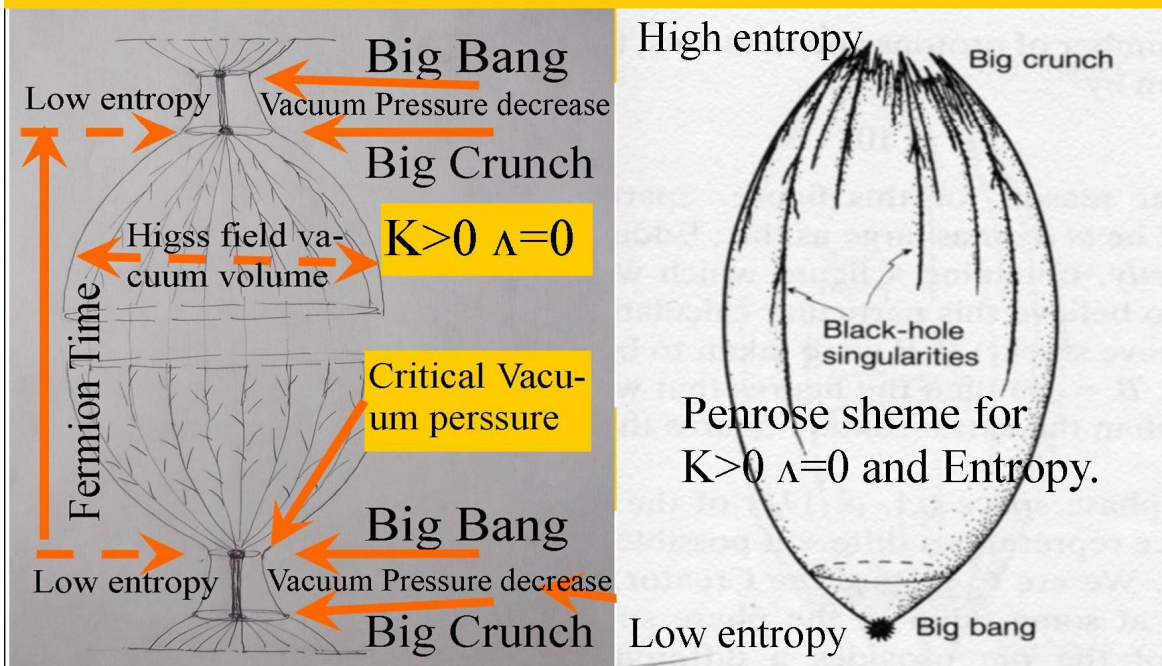


Figure 14, The consequence: a bouncing CP(T) symmetric multiverse.

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 Quanam FFF Theory.



Below several other examples of micro comets and Ball Lightning.

Ball lightning pushed by Plasma tail against the wind

Vapour trail washed out by the wind

Ball lightning micro-black hole pushed by gas producing plasma tail

Fermion repulsion by SPIN-FLIP

Fermion production

Wind direction

Vapour

Fermion repulsive horizon (10) with Butterfly shaped Higgs impulse Hedgehogs (9).

(By Leo Vayns)

Ball Lightning and Micro Comets Based on New ZPE Black Hole Paradigm

Micro Comets (micro black holes) also pushed by plasma tail against the wind

Figure 15, 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 pairing Black Hole examples in nebula like the Carina.

Ball lightning pushed by Plasma tail against the wind



Vapour trail washed out by the wind

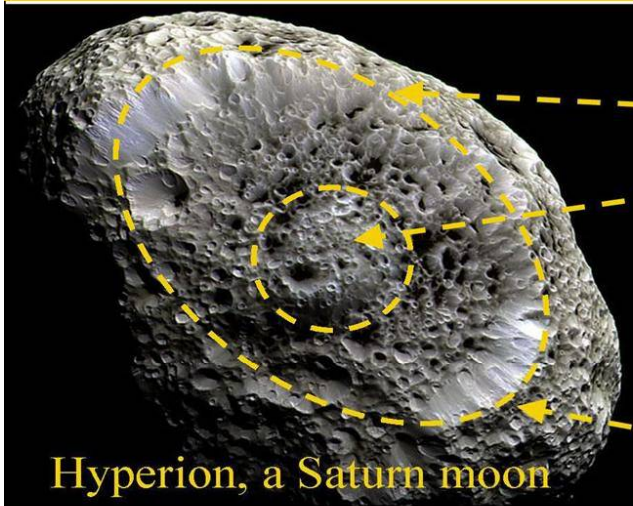
Other examples of BLs with plasma tails



Figure 16, other examples of Ball Lightnings with plasma tails.

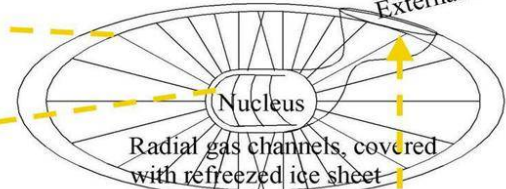


# Electric Dark Matter Black Hole Comets and Icy remnants (e.g. Hyperion)



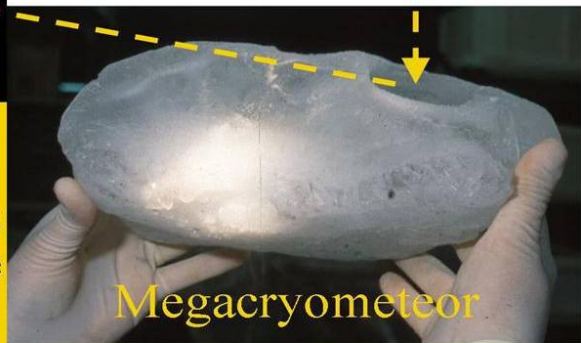
Hyperion, a Saturn moon

Cross section through a Megacryometeor or Terrestrial micro Comet nucleus.



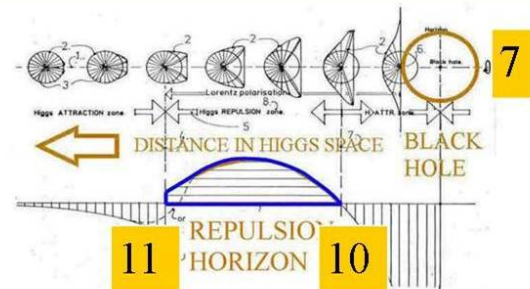
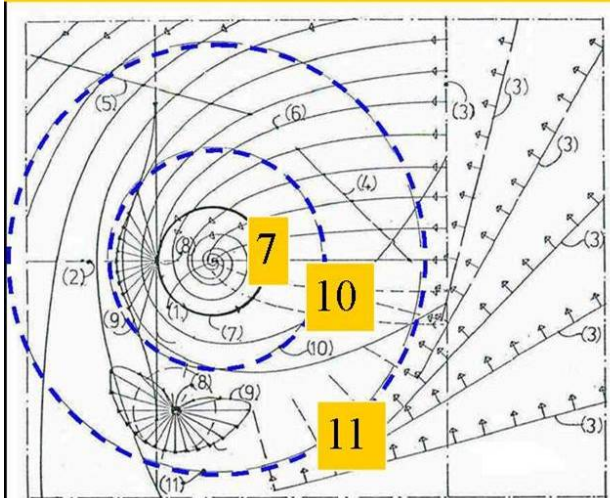
Expected ice structure of the ellipsoidal ice chunk (Megacryometeor) found by J.M.Frais (Madrid). According to Quantum FFF theory this chunk should be the Nucleus of a Terrestrial Micro Comet, produced by a new paradigm black hole, which left the nucleus through the external hole, in consonance with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

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.



Megacryometeor

According to Quantum FFF Theory, even Nano interference Black Holes have a radial structured electric potential horizon layer (internal positive-protons and external negative electrons charged). They produce H<sub>2</sub> 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.



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

# Early NGC 3801, a cosmic Miracle?

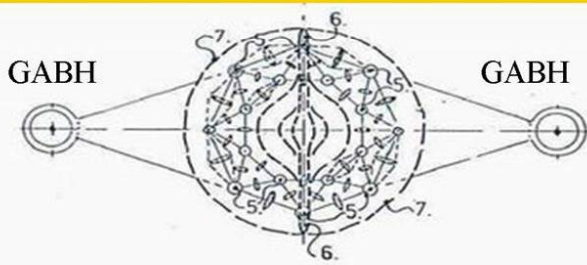
Not so, in Quantum FFF Theory, if we accept to recognize two GABH's ( Galaxy Anchor Black Holes) both in line with the central star forming region.



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 star formation in between, in the halo of the MW.

Dual Galaxy- and Stellar Anchor Black Holes (G-SABHs) as former Herbig Haro bowshocks, observed in deep space or Planetary Nebula.



Dual black hole systems of all scales, Galaxy and Stars are supposed to be the origin of the self organising universe according to a new electric dark matter black hole model called Quantum FFF Theory. See: Image credit: Prathamesh Tamhane/Yogesh Wadadkar

According to Quantum FFF Theory, Black holes create Proton-Electron plasma at the Fermion repelling horizon. As a consequence dual black hole systems like Herbig Haro objects are equipped with dual EM jets, supported by cone shaped Casimir pressurized Higgs field vacuum polarization. Birkeland and Alfvén current circuits are supposed to be the result. Higgs-Casimir pressure vectors are depicted above and below.

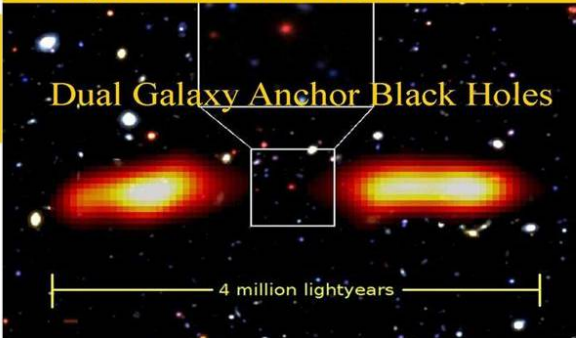
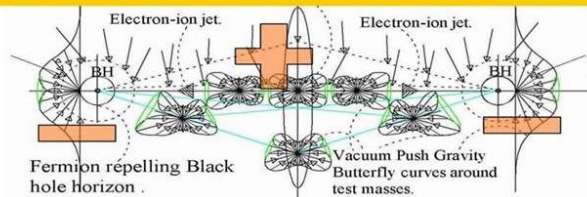


Figure 18, how stars and galaxies are formed by Herbig Haro systems between two equal sized new paradigm black holes.

# 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 fore-runner 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.

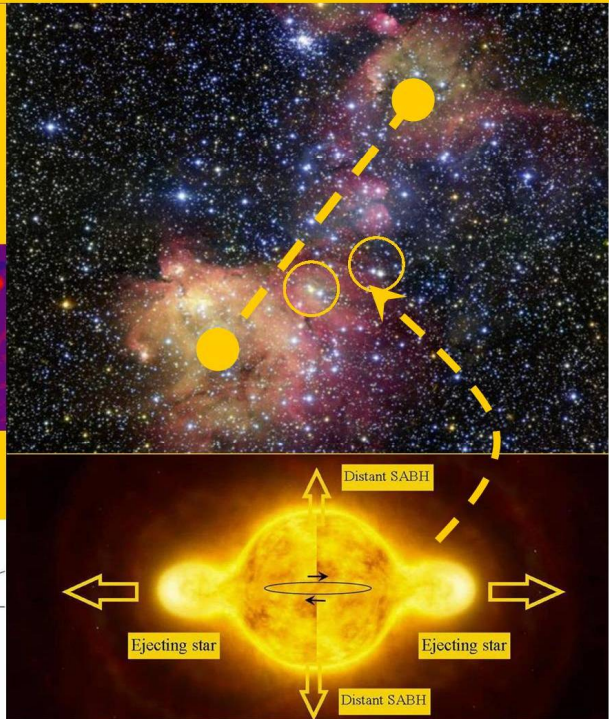
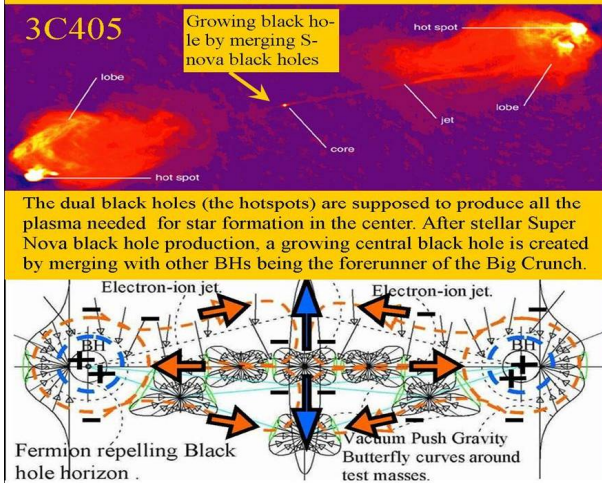


Figure 19, Binary star production .

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.

Quantum Gravity as pressure distribution of the oscillating dual Higgs/Graviton vector field.

Polarized Fermion Mass in motion through the resistive, but also pushing oscillating Higgs vacuum (according to Quantum FFF theory)

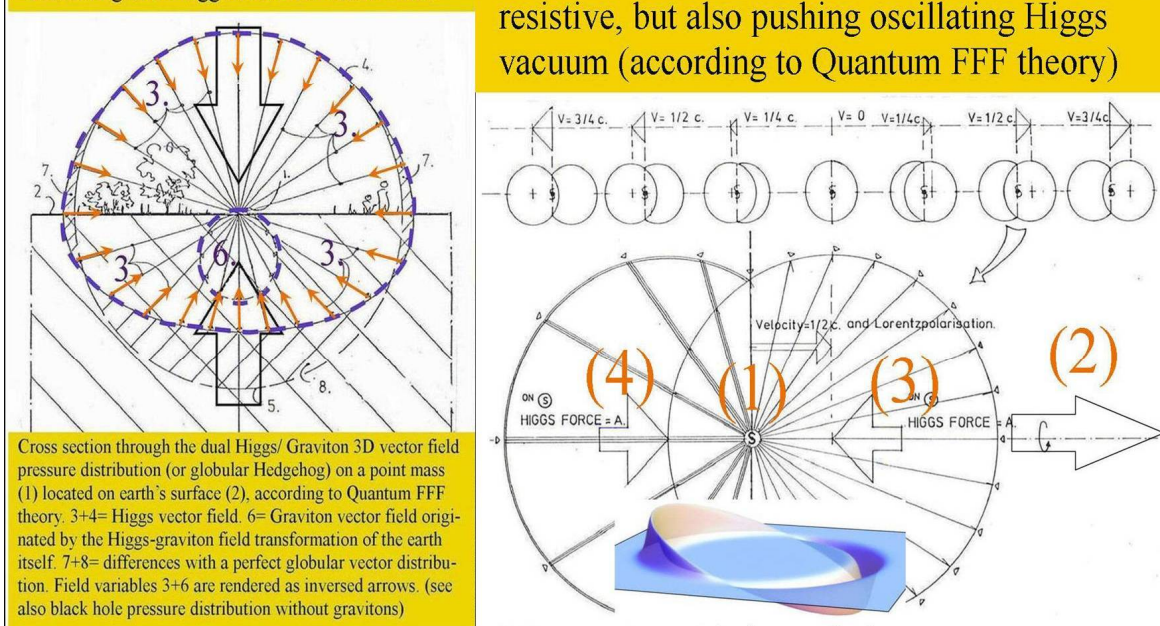
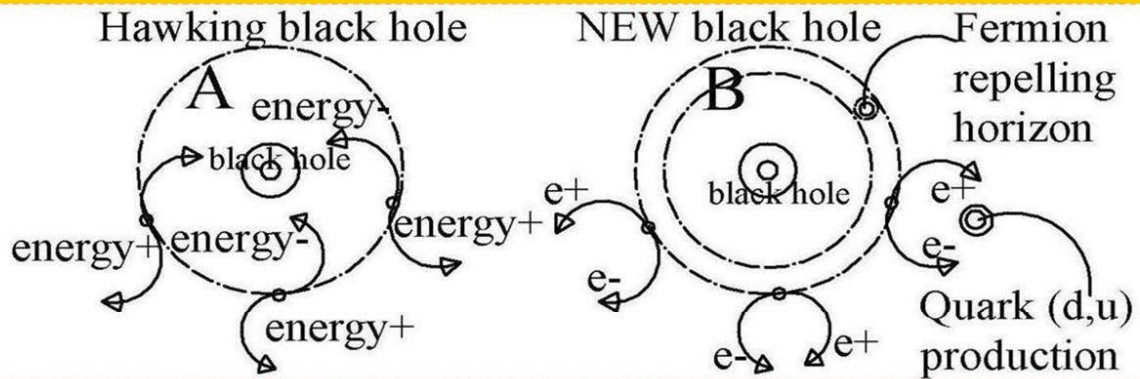


Figure 20, equivalence between gravity and acceleration does not hold in Q-FFF theory.

# Fermion/ Dust production and repulsion at small (Herbig Haro) black hole horizons during and after fractal inflation.



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>

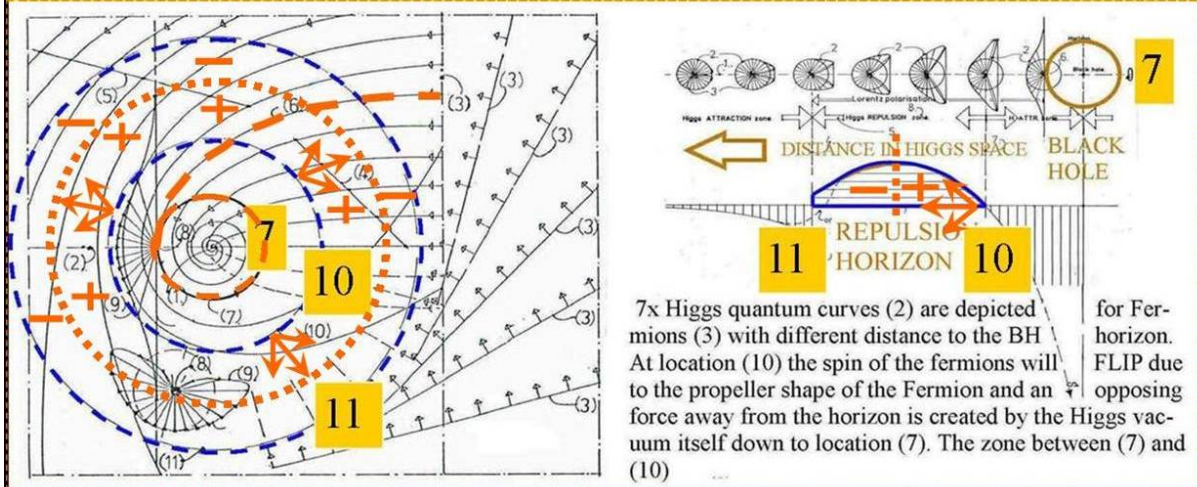
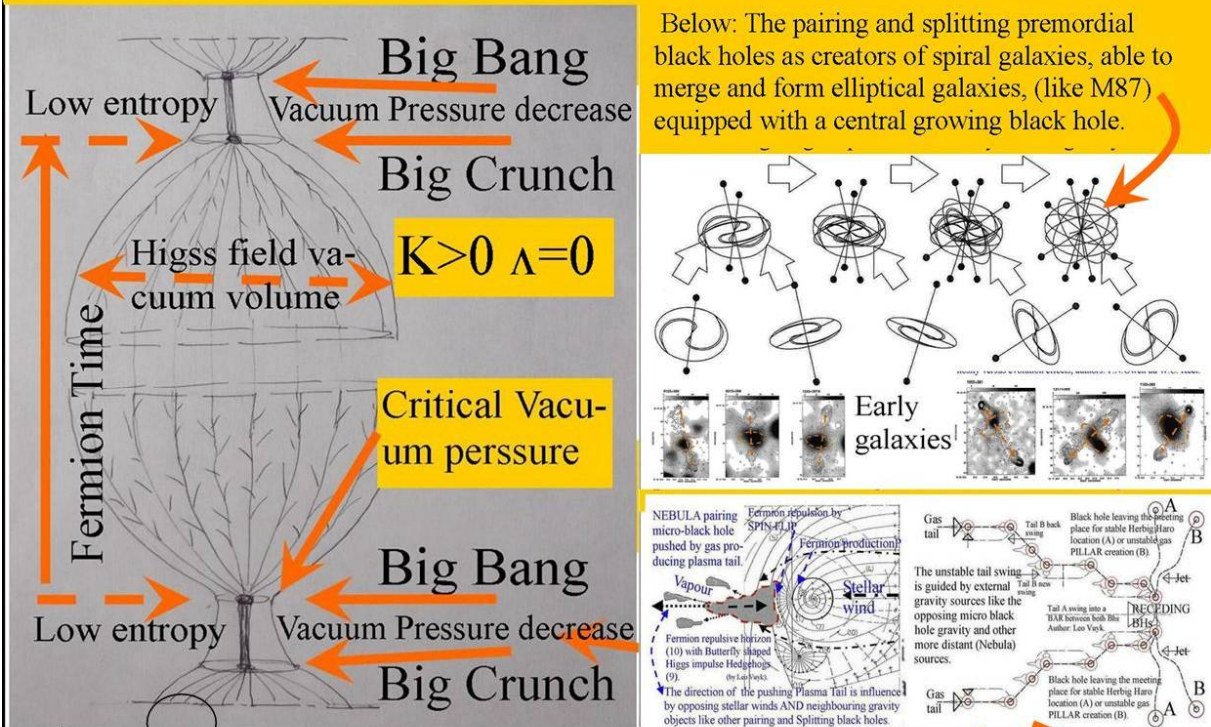


Figure 21, the new electric dark matter Black Hole paradigm.

# New Cyclic Multiverse 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 Quantum FFF Theory.



Below: The pairing and splitting primordial black holes as creators of spiral galaxies, able to merge and form elliptical galaxies, (like M87) equipped with a central growing black hole.

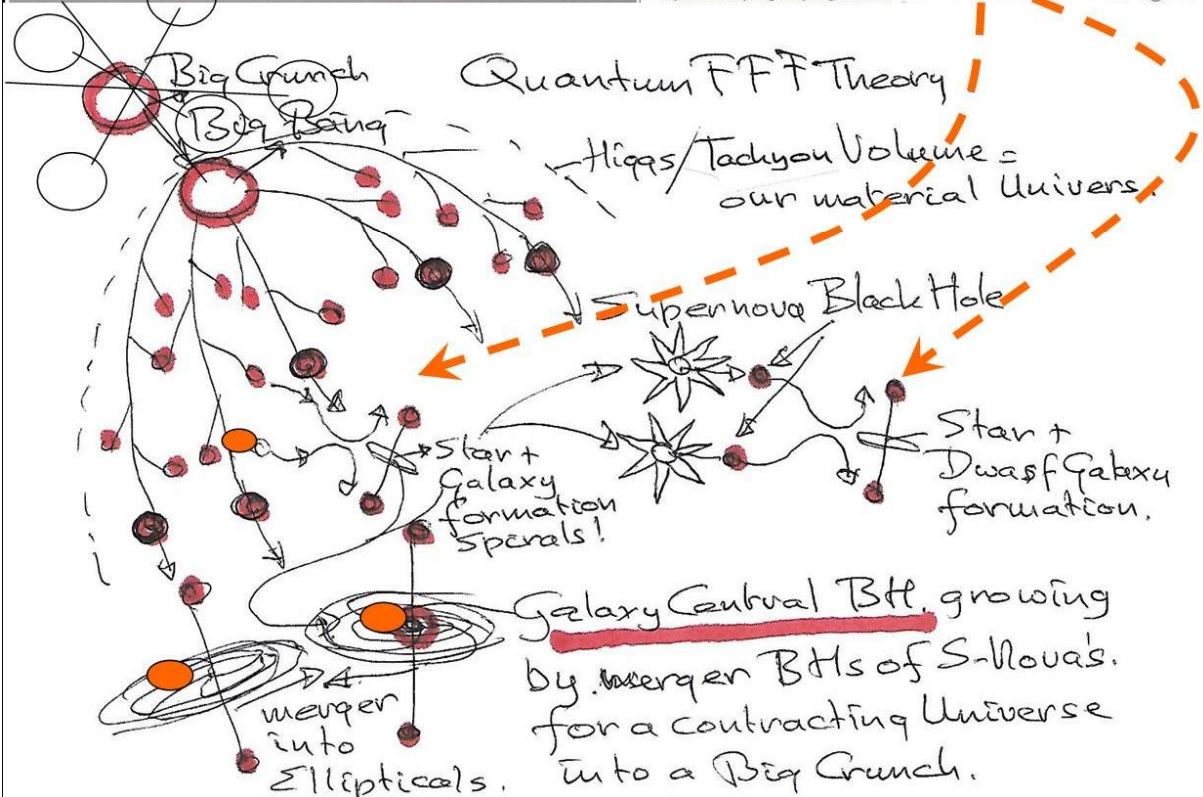
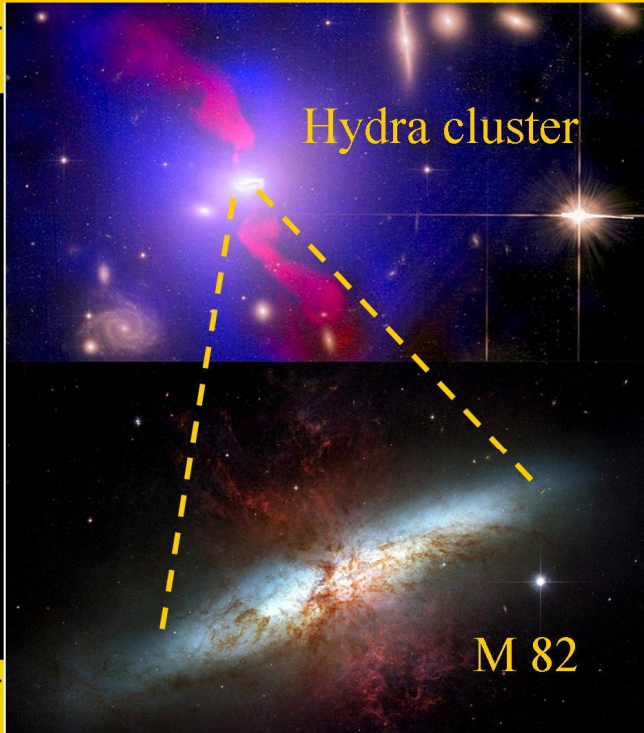
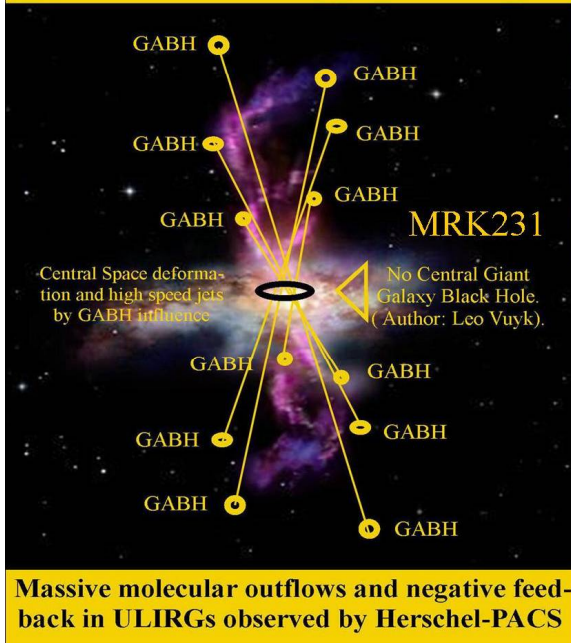


Figure 22, The new Cyclic Multiverse with CP(T) symmetric universes.

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

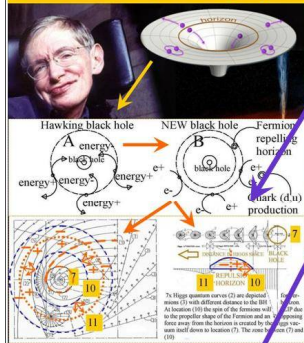
Galaxy Anchor Black Hole (GABH)-  
Effect on High speed gas ejection.



Massive molecular outflows and negative feedback in ULIRGs observed by Herschel-PACS

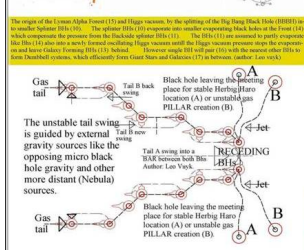
Figure 23, Primordial Galaxy Anchor black holes.

The NEW Plasma Creating Electric Black Hole versus the Hawking Black Hole, according to Quantum FFF Theory, the origin of Comet - Sunspot - BL mystery.



How massive galaxy clusters are formed in the early Universe. According to Quantum FFF Theory, the Big Bang process is the result of a fractal shaped splitting of evaporating BH dark matter black hole process creating the Lyman Alpha structure of galaxy distribution. By the evaporation of BH "spitters" (14) the oscillating Higgs field vacuum is created by the so-called "branched inflation". Rotated Black hole clusters (13) do not evaporate by Higgs vacuum pressure, but create plasma "wells" pushing them away from the center of gravity in search for a partner to form a Herbig Haro system (16,17).

"Branched Inflation" of the "Origin of Fringers and Voids".  
New Herbig Haro system  
Energy source

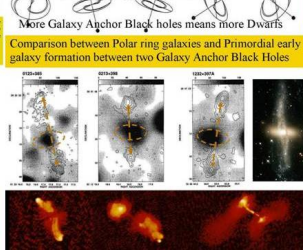
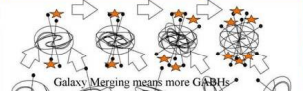


## The new paradigm of star/galaxy formation and dying.

Based on the new paradigm of Fermion repelling and creating black holes.

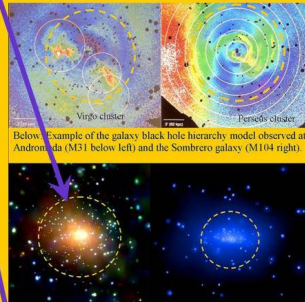
Electric dark matter black holes seem to have the intelligence to pair by self propulsion with other BHs of comparable size to form Herbig Haro systems with star formation in between. (according to Quantum FFF Theory)

Dwarf Galaxy formation between Galaxy Anchor Black Holes (GABHs) as the Origin of stellar migration forming Polar Ring Galaxies. More GABHs means more Dwarf galaxies means more sources for Stellar migration and bulge formation, according to Quantum FFF Theory.



Giant galaxies die from the inside out: Star formation shuts down in the centers of elliptical galaxies first.

According to Quantum FFF Theory, Galaxy- and Cluster black hole hierarchy is the origin of dying galaxies where star formation in the center stops. X-ray point sources (Dark matter black holes) in Virgo and Perseus cluster centers present evidence for black hole hierarchy: the smallest BHs are located in the centers and are not any more able to create Supernova black holes large enough to form Herbig Haro systems with star formation in between. The result: Dying "red and dead" galaxies as the start of Universal contraction and collapse (Big Crunch) in a cyclic multiverse.



New class of 'dark' globular star clusters discovered around giant galaxy Centaurus A. Evidence for GABHs of Quantum-FFF Theory.

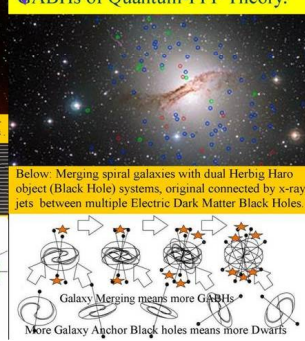


Figure 24, star formation and dying according to Quantum-FFF Theory.

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



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 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.

**The basic elements:**

- 1: Black holes (BHs) are the same as Dark Matter, they all consume photons, even gravitons and the Higgs field, but REPEL Fermions due to their propeller shape polarisation away from the BH. They produce electric charged plasma.
- 2: 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..
- 3: 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 Fractal Lyman Alpha forest and evaporating partly into a zero mass energetic oscillating Higgs particle based Higgs field.
- 5: Dual PBBS 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.  
NEW>>>>>>>>>>>>
- 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 quality 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 Higgs field ether, within about 1 cm distance from a fermion.(see: Babcock 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 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 (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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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 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 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.  
vxira.org/pdf/1401.0071v2.pdf

Figure 25, Quantum FFFTheory in short.

## 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)

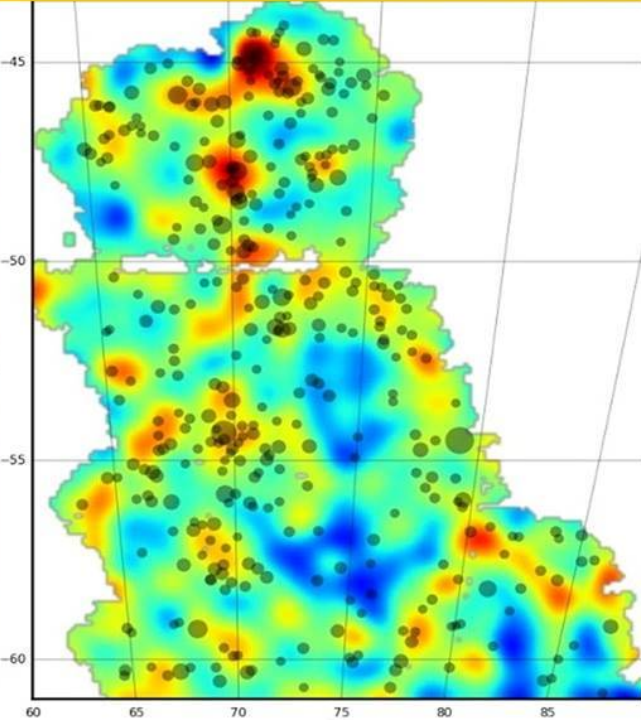
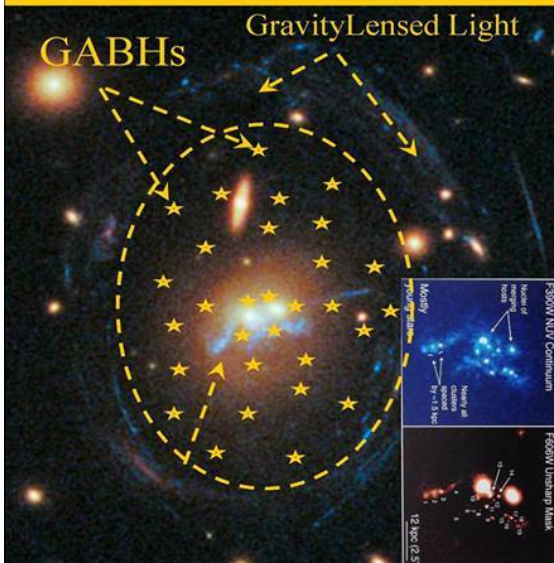


Figure 26,

# The cool corus mystery of galaxy clusters: small black holes

The Virgo and Perseus cluster have cool corus 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.

X-ray point sources (Dark matter black holes) in Virgo and Perseus cluster centres present evidence for black hole hierarchy. According to Quantum FFF Theory (Function Follows Form), not the giants- but the smallest black holes reside in the centre of galaxies (see M104) and consequently in galaxy clusters. See also: <http://vixra.org/abs/1406.0076>  
 Images: <http://arxiv.org/ftp/arxiv/papers/1410/1410.6485.pdf>

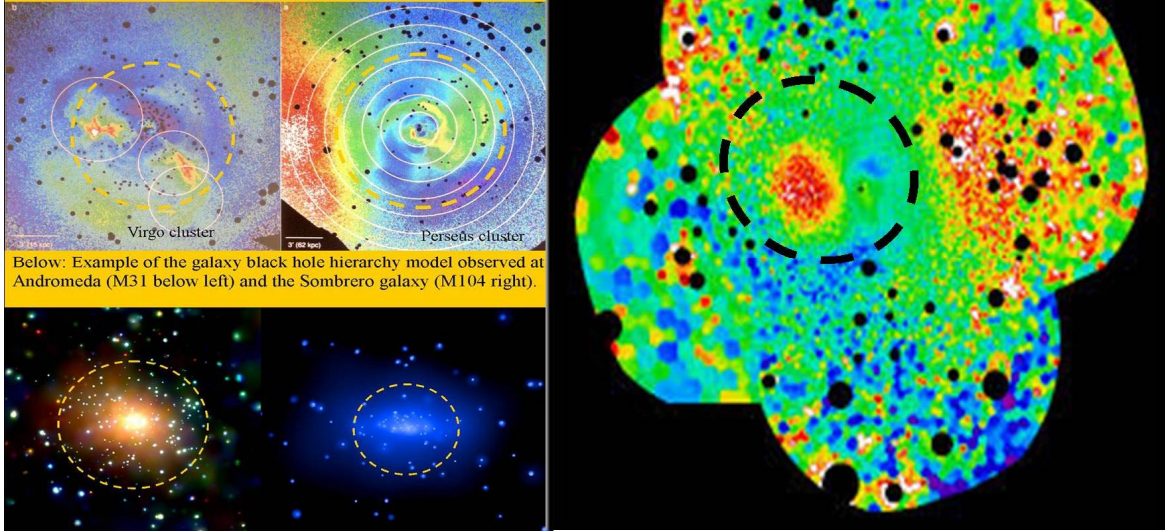


Figure 27

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

Left, the D and U Quarks of a neutron are depicted. Below the chiral oscillating Higgs field vacuum, according to Quantum FFF Theory.

D quark =  $1/3$   
 U quark =  $2/3$   
 D quark =  $1/3$

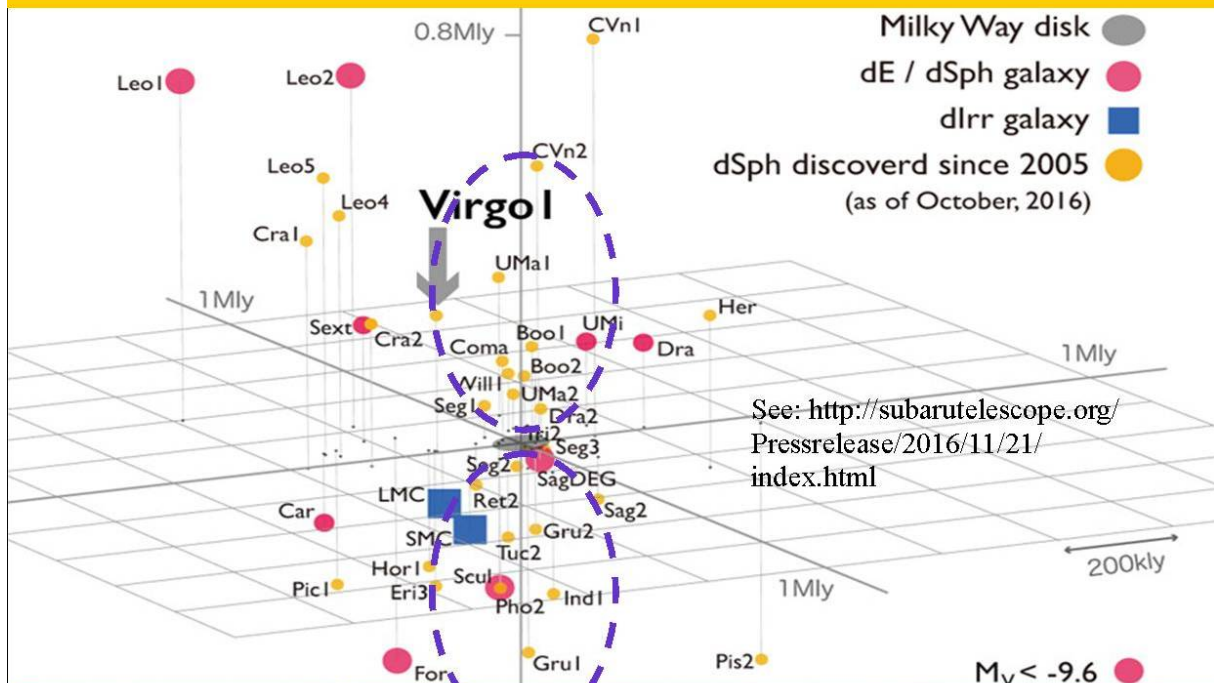
Axions, Weyl Fermions

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 28, DDU Neutron- Quark configuration

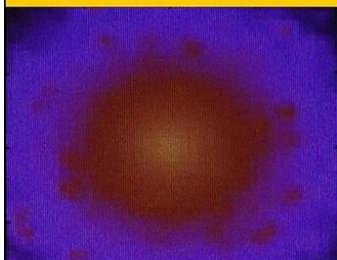


# Evidence of Galaxy Anchor Black Holes POLAR distribution: (dSph) escorting the Milky Way as a support for MW flat rotation curves and being a merger spiral galaxy with multiple dSph GABHs.

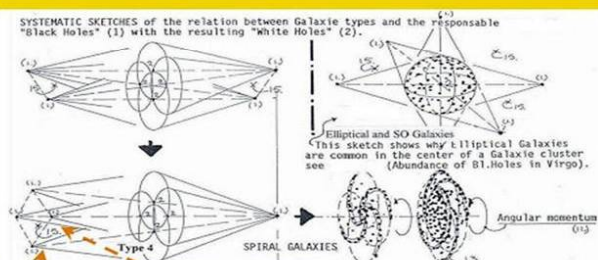


Clumpy Dark Matter around Dwarf Galaxies related to Dark Matter based Galaxy Anchor Black Holes (GABHs) according to Quantum FFF-Theory

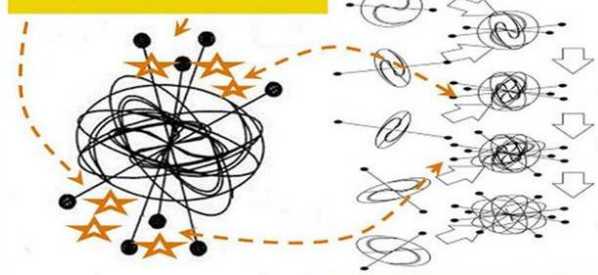
DWARF Galaxy formation (15) in between (2+) Galaxy Anchor Black Holes (1) (GABHs= Clumpy Dark Matter) after Galaxy merging according to Quantum FFF- Theory.



Clumpy Dark Matter also around main Galaxies such as The Sombrero galaxy. M104 is seeded with soft x-ray point sources, representing star formations like (Globular) Dwarfs (embedded in GABH-dark matter halos) and GCs (Globular Clusters with central GABHs). According to Quantum FFF-Theory, Halo Galaxy Anchor Black Holes have different sizes related to different ages.



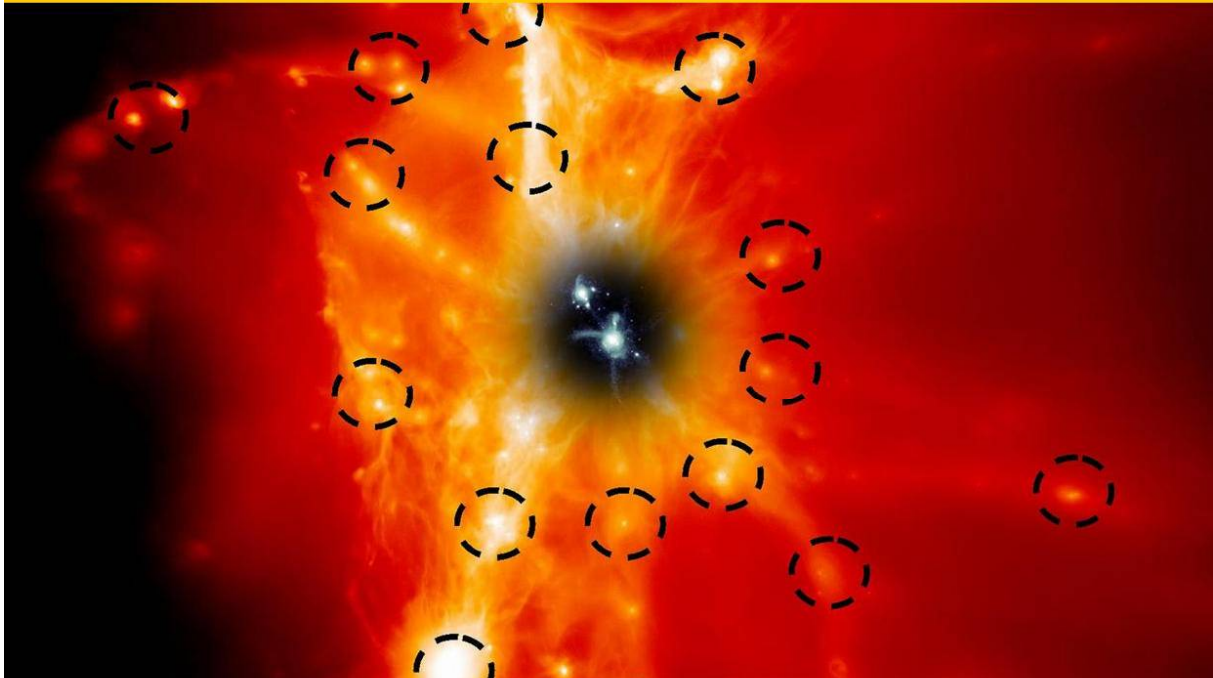
DWARFS between GABHs



Galaxy merging

Figure 29. 23

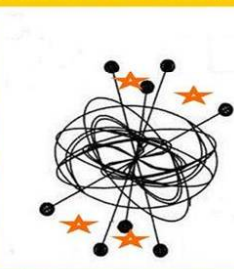
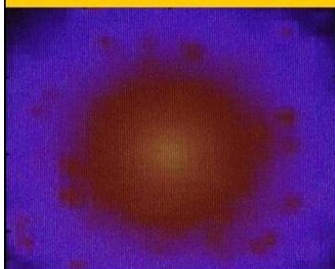
# 'Wasteful' galaxies launch heavy elements into surrounding halos and deep space,



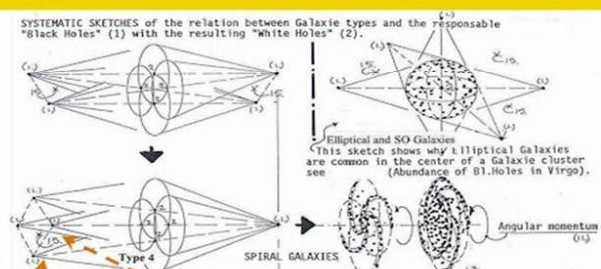
Quantum FFF Theory says: this galaxy is a young merger with multiple GABHs in the CGM. as remnants of former merger GABHs

Clumpy Dark Matter around Dwarf Galaxies related to Dark Matter based Galaxy Anchor Black Holes (GABHs) according to Quantum FFF-Theory

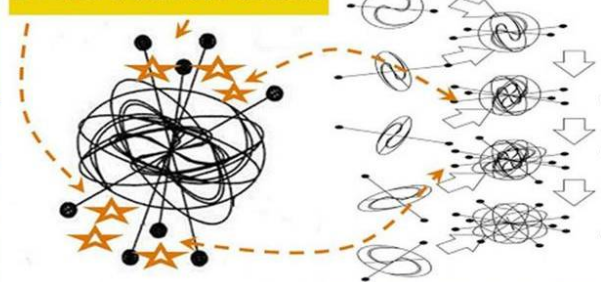
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DWARFS between GABHs



Galaxy merging

Figure 30.

Einstein Cross Quadrupole effect originated by TWO or even One Quadrupole lensing Dark Matter galaxies. (Quantum FFF Theory)

2x perpendicular Galaxies form Dark Matter Galaxy Anchor Black Hole (GABHs) Quadrupole of Mrk 231.

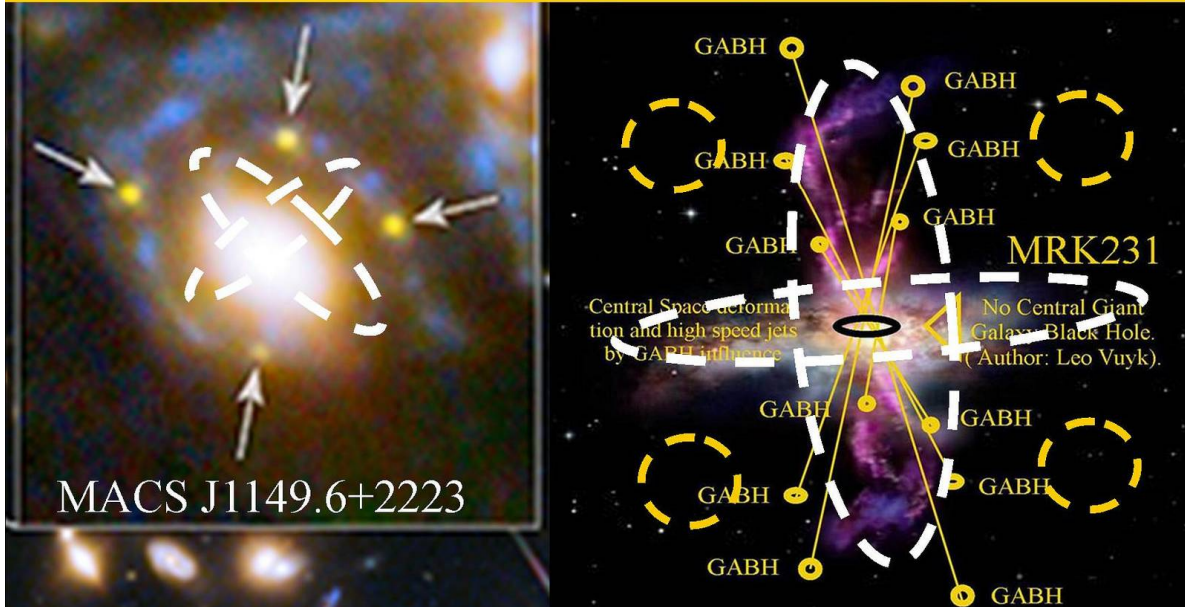
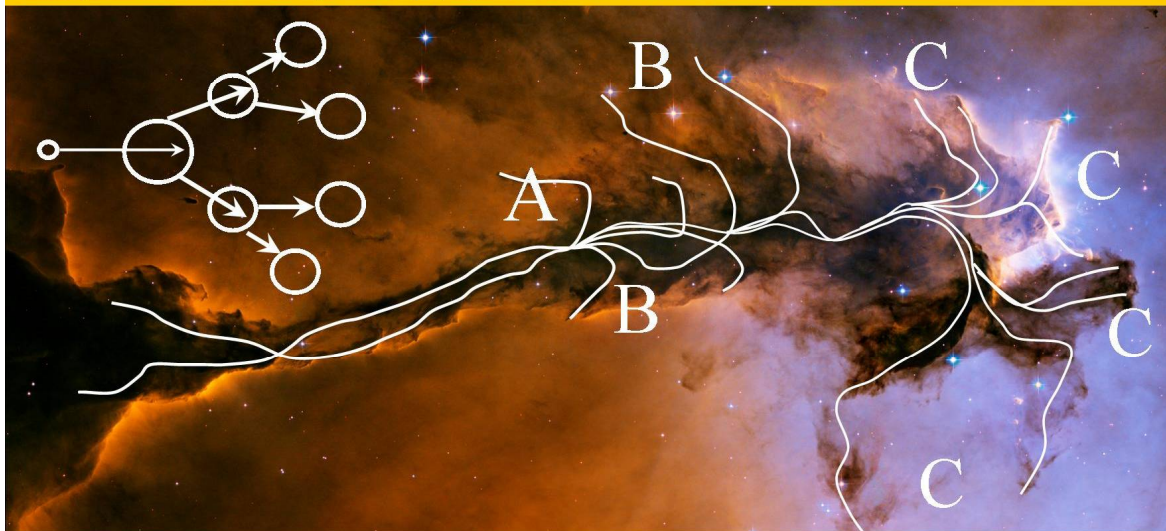


Figure 31. Einstein Cross effect explained by the quadrupole dark matter distribution of single and sometimes even dual edge-on galaxies . see also figure 29. for our single Milky Way galaxy edge on distribution of dark matter.

## Black hole splitting in the Spire Eagle nebula

According to the Quantum Function Follows Form Model, small black holes split larger BHs in equal halves, (A) which are able to repel each other and form Dumbbell shaped Herbig Haro systems (B,C) with star formation in between.



At location (A) both unequal sized black holes seem to split into 4x dual sets of smaller BHs one dual set has even evolved into a second 4x dual sets of BHs.

Figure 32. Spire Eagle nebula black hole splitting

## References:

[71.] The New God Particle and Free Will. Author: Leo Vuyk, LuLu publishers, 2008. ISBN number 978-1-4092-1031-3 <http://www.lulu.com/spotlight/LeoVuyk>

[70.] Quantum FFF Theory is also published in the form of POSTERS at the Flickr site: <http://www.flickr.com/photos/93308747@N05/>

[69. ] Numbered listing of Vixra essays by Leo Vuyk. [http://vixra.org/author/leo\\_vuyk](http://vixra.org/author/leo_vuyk)

[68] viXra:1611.0005 Electric Dark Matter Black Holes in the Moon (Orientale Basin)

[67] viXra:1609.0407 New Physics Elements in the Quantum Function Follows Form Model.

[66] viXra:1608.0329 God Seems to Play Dice with Dual Entangled Pinball Machines in a Supersymmetric (Susy) Multiverse

[65] viXra:1607.0376 Axion-Higgs 3-Dimensional Rigid Transformable Strings and the Compound 650 GeV Z-Z Decay into Quarks/Leptoquarks.

[64] viXra:1605.0257 Reaction Less Drive by Anti Maxwell Dead Zone Around a Wire.

[63] viXra:1604.0372 Herbig Haro Hotspots or Bowshocks Are the Origin of Star Formation, not the Result as the Mainstream Suggest.

[62] viXra:1604.0229 Er=epr in the Supersymmetric Cyclic Multiverse and in the Lab Without Strange Cats.

[61] viXra:1603.0253 Reaction Less Drive by Anti Maxwell Dropping Zone Around a Wire.

[60] viXra:1603.0240 Reaction Less Space Propulsion by the Magnetic Monopole Quantum Field Creation of an Anti Maxwellian Dropping Zone Around an Energized Electric Wire.

[59] viXra:1505.0101 The Origin of Bok Globules and Molecular Clouds, Splitting and Pairing Electric Dark Matter Black Holes.

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[57] viXra:1503.0097 Quantum FFF Theory, Poster News 4.2

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