### Rigid String Cosmology with a Massless Axion-Higgs Oscillating Photon Vacuum Lattice and massive Quantum Knots.

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### Abstract,

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 black hole, quantum gravity, the mass related local lightspeed, a topological superconductive vacuum etc.

In this essay, I present possible 3D rigid string particle solutions based on only one massless and closed 3-D ring shaped Axion-Higgs particle, which is equipped with three point like hinges and one splitting point, all four points divided equally over the ring surface. The 3-D ring itself is postulated to represent the "Virgin Mother" of all other particles and is coined Axion-Higgs particle, the ring is equipped with 3-hinges coded (OOO), which gives the particle the opportunity to transform after real mechanical collision with other particles into different open string shapes, with a different functions like masses and interlocking abilities with other particles to form quantum knots such as quarks, W-Zparticles and black holes.

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 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. 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.

### Introduction,

It is assumed that the vacuum is seeded with massive numbers of **massless** Axion-Higgs (A-Higgs) particles, all energetic oscillating inside a chiral vacuum lattice system and as such the origin and bearer of all energy in the universe.

If by a local energy excess, two A-Higgs particles collide with enough energy, it is assumed that an electron and positron emerges by internal hinge transformation.

Due to the propeller shape of the Fermions, these Fermions are assumed to spin by a constant collision and scattering process with the Higgs vacuum, changing A-Higgs particles continuously into different forms of Photon or Gluons.

This collision scattering process is proposed to be the base for the "eigenenergy" of Fermions. Thus Fermions are constantly consuming and transforming vacuum particle energy into photons and gluons.

As a consequence, in Quantum FFF Theory photons should be the same as gluons and gluons become photons after collision with local fermions ( atomic fermions) or after 1cm distance being absorbed by the local vacuum.

As a result, I suggest that many "elementary" (Quarks, Z and W) particles should not be elementary, but compound constructions or KNOTS of transformed A-Higgs particles. Even the Muon and Tau Lepton should be compound particles having the same shape as one of the different coloured "naked" Down- respectively Charm Quarks.

Thus, Muon- and Tau particles are supposed to be naked Quarks!

Recent LHC (Large Hadron Collider) results are telling us that so called di-Higgs resonances lead to a variety of Higgs masses.

In Quantum FFF Theory however the real building block of the universe should be only the Axion-Higgs vacuum particle without any mass.

Thus di Higgs resonances are supposed to be the result of compound rigid string knots, such as Z Z WW knots based on electron positron strings ore combinations of three or four photon knots as the result of photonic interference. (Figure 1 and 2)

### 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. Rigid String Quantum Knot suggestions for different configuration: 125-375-500-750-1600 GeV and More called dark matter black holes. (According to Quantum FFF Theory architecture)





500GeV

# 375GeV+375gEv=750GeV

## Some suggested ring configurations

Figure 1 Multiple combination of quantum knots. Knot 1: left: three magnetic monopole photons (125 GeV, silver) Knot 2: right: 4x x-ray photons (375 GeV, black)

It is assumed, that this interlocking system is the start of the step by step-building up of ball lightning/ Sprite /Cometary nuclear black holes up to sunspots. Traces of this building up seems already be observed by the LHC collider.



Figure 2 Geometric proposal for the Z and W particles. Z particles are symmetrical without propeller spin effects. W particles are not symmetrical with propeller spin effect left or right spin.

# A combination of multiple Z particles could lead to Z-Z decay with 650 GeV ? as measured by the LHC.

Dual Z particles: a combination of 2x electrons and 2x positrons, according to the Quantum FFF Model.

LHC-CMS in ZZ channel. The massless transformable ring shaped Axion /Higgs vacuum particle is supposed to act as the mother of all single and compound rigid string particles fermions/neutrinos, photons etc. Massive ZZ particles are compound electron /positron interlockers, with 650 GeV in the LHC-CMS (example below)



Figure 3, the massive ZZ channel particles.

### MAJORANA particle's placed in the new extended standard model based on Q-FFF Theory. OUO is e-e+ related, UUU, LUL,RUR are Neutrino related. Called sterile Neutrinos.

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 Torus Particle" (page 2). This ring has one splitting point and three hinges which have consequently four 90 degree click positions each. The best Torus ring diameter ratio to click-on is about 1/7. The ring coding of the hinge positions is as follows.

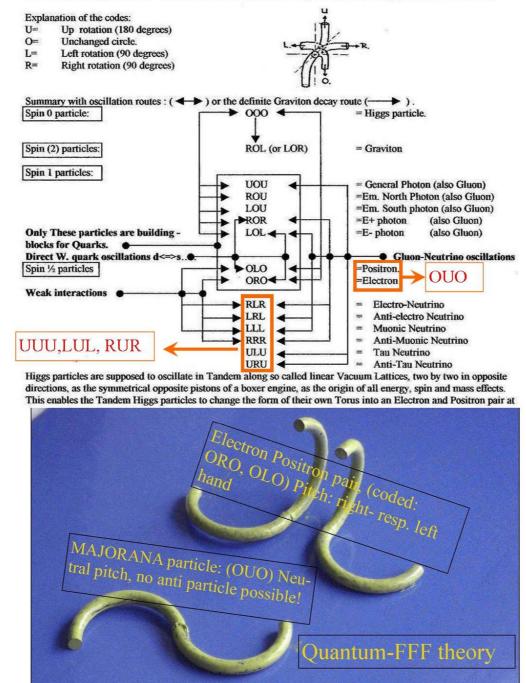


Figure 4, The geometric principle of Quantum FFFModel.

## **Geometry of a new Physics 3-Dimensional Particle** system according to Quantum FFF Theory.

**OOO**= Higgs particle equipped with internal three HINGES and 79 possibilities for 90 degree rotation. (see below) due to symmetry reasons (underscored particles) only 42 different shaped particles remain. Only 15 different shaped particles are needed to construct all standard model particles according to the Quantum FFF Theory model. (See right panel)

LOO-LOL-LOU-LOR-ROL-UOL-LOL-OOL LLO-LLL-LLU-LLR—RLL-ULL-LLL-OLL LUO-LUL-LUU-LUR-RUL-UUL-LUL-OUL LRO-LRL-LRU-LRR---RRL-URL-LRL-ORL

ROO-ROR-ROU-ROL---LOR-UOR-ROR-OOR RLO-RLR-RLU-RLL---LLR-ULR-RLR-OLR RUO-RUR-RUU-RUL---LUR-UUR-RUR-OUR RRO-RRR-RRU-RRL---LRR-URR-RRR-ORR

UOO-UOU-OOU ULO-ULU-OLU UUO-UUU-OUU URO-URU-ORU

**HINGE ROTATIONS** O= Ring shape L= Left 90 degr. R= Right 90 degr. U=Up 180 degr. OLO-ORO-OUO. Calabi Yau rotation result.

E photon: LOL ROR M photon: LOU ROU X-ray /vis photon: UOU Graviton; ROL (or LOR)

Electron: ORO. Positron: OLO. Majorana: OUO

Neutrinos: LLL-RRR =v E(+/-)LLU-RRU= v Mu (+/-) ULU URU=v Tau (+/-)

Figure 5, The principle based on 3x hinge rotaions of 90 degrees.

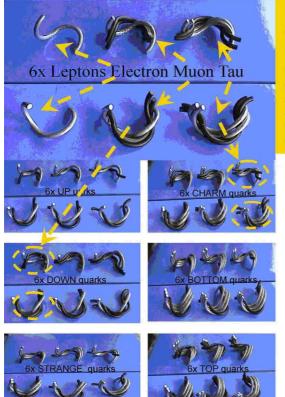
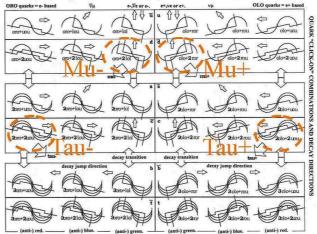


Figure 6, general view of the basic particle zoo.

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 respectivily Charm Quarks. According to Quantum FFF Theory.

(Function Follows Form in particle physics)



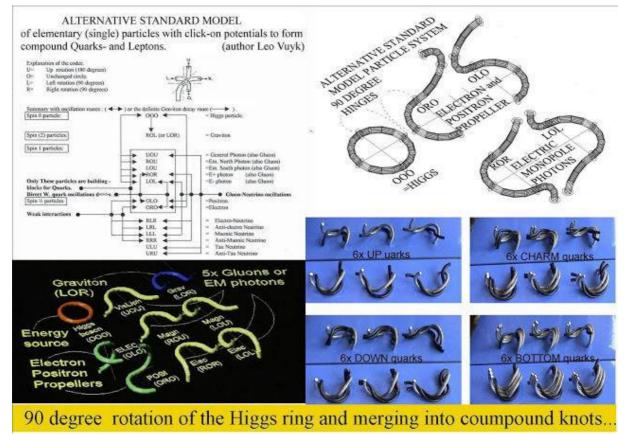


Figure 7, most common particles.



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

Proposal for the origin of frequent Gamma Ray Bursts (GRBs) Small black holes split larger BHs into two equal parts, both able to create dual Herbig Haro systems. The ratio of the original Black Holes is at least between 0.6 and 0.01?

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 Dark Matter Black Hole merger and splitter Higgs content "size" ratios, now between 0.8 and 0.6x sun mass. See Quantum FFF Theory based new black hole paradigm.

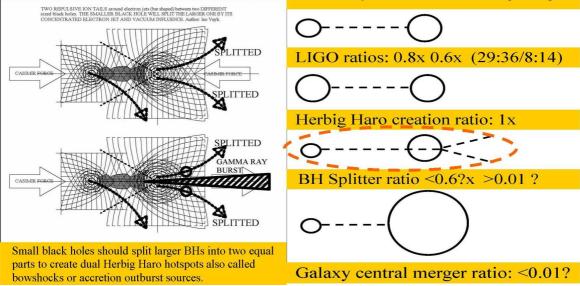
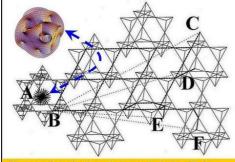


Figure 9, suggestions for black hole nuclear splitting by BH collision.

# 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.



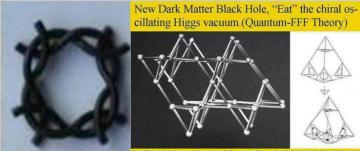
Photon trajectories through the tetrahedral oscillating Higgs vacuum lattice. (Acc. to Quantum FFF Theory) A: a real shaped Photon is created by Higgs collision with a du-

al axis spinning (Calabi Yau) Fermion propeller. B: that Photon transferes CODED form information (monopole photon info) and direction information into one Higgs particle which transferes this information by mutual Higgs collisionary oscillations through the vacuum in one specific direction. C. D. E. or F.

E. 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.

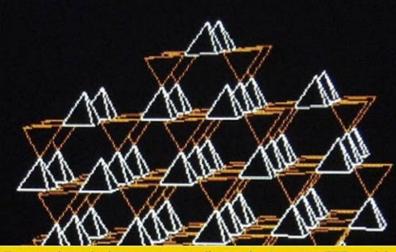
III The vacuum lattice has helix- or chiral quality being the origin of our material universe.



Dark Matter Quantum Knots inside BH Nuclei







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 matterial universe and our opposite anti-matter universe.



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

Figure 10, Dark energy vacuum field with topological superconductor function for local and interuniversal 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.

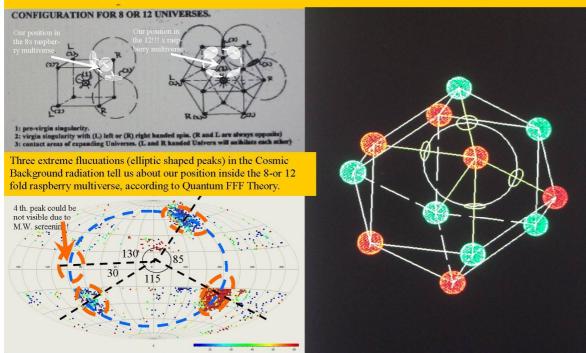


Figure 11, the entangled 8- or 12 fold raspberry multiverse.

## 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.

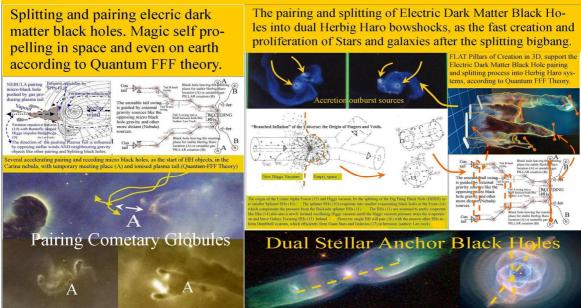
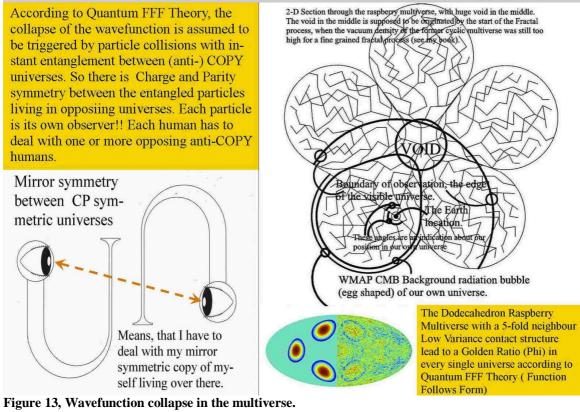


Figure 12, great misconceptions in astronomy and the solution with alternative electric dark matter black holes able to combine into Herbig haro objects with star formation in between.

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



### 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..

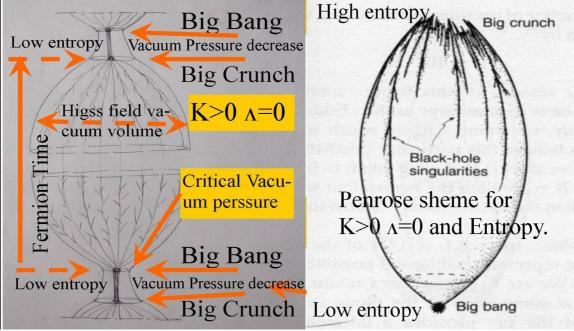


Figure 14, The consequence: a bouncing CP(T) symmetric multiverse.

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 Quanum FFF Theory.



# Below several other examples of micro comets and Ball Lightning.



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 paring Black Hole examples in nebula like the Carina.

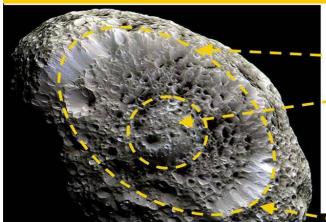
Ball lightning pushed by Plasma tail against the wind Vapour trail washed out by the wind

## Other examples of BLs with plasma tails

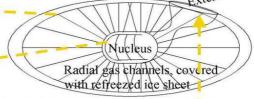


Figure 16, other examples of Ball Lightnings with plasma tails.

# 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 moon<sup>47</sup> 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.

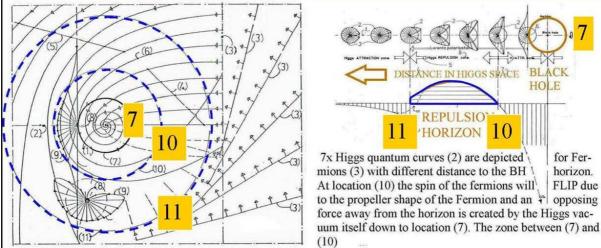
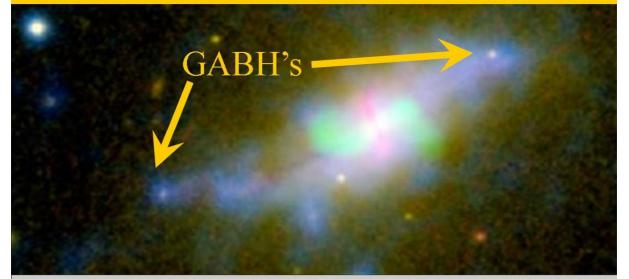


Figure 17, The principle of fermion production (also water) and repulsion around a new paradigm black hole.

## 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 (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.

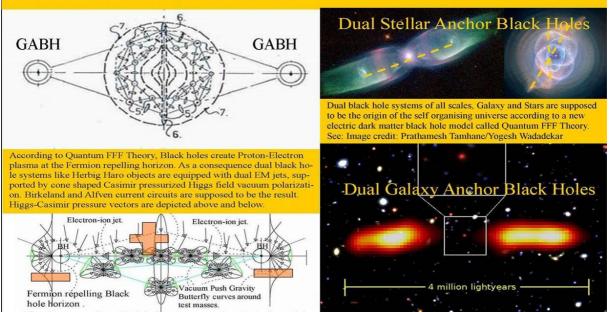
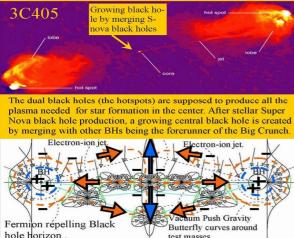


Figure 18, how stars and galaxies are formed bu HerbigHaro systems between two equal sized new paradigm black holes.

### 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



test mass

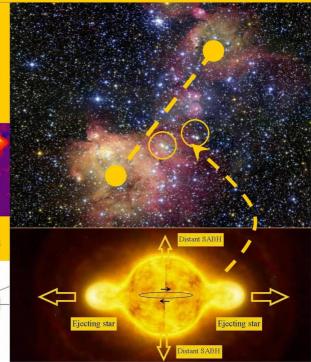


Figure 19, Binary star production .

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.

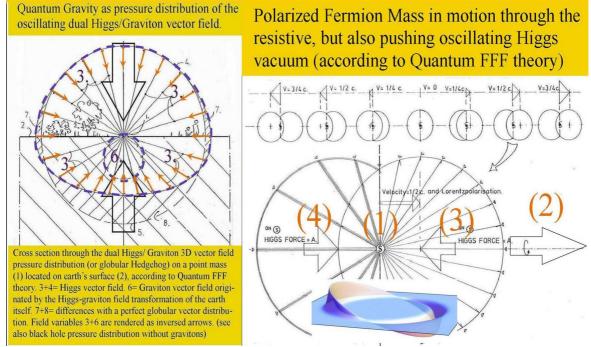
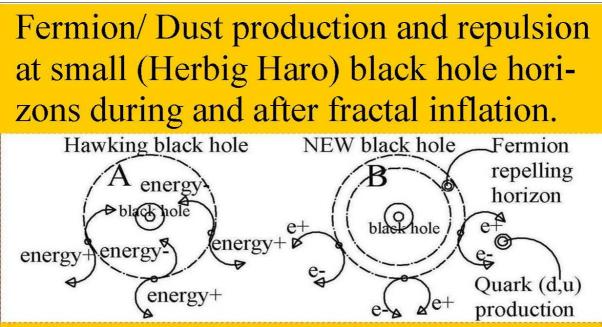


Figure 20, equivalence between gravity and acceleration does not hold in Q-FFF theory.



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: <a href="http://vixra.org/abs/1410.0039">http://vixra.org/abs/1410.0039</a>

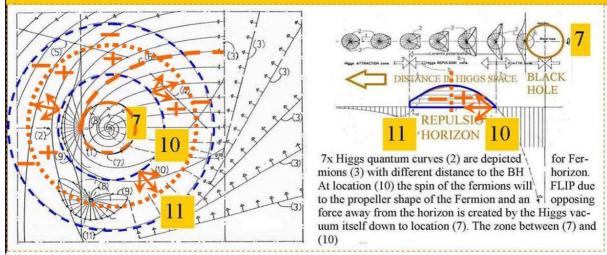


Figure 21, the new electric dark matter Black Hole paradigm.

## 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.

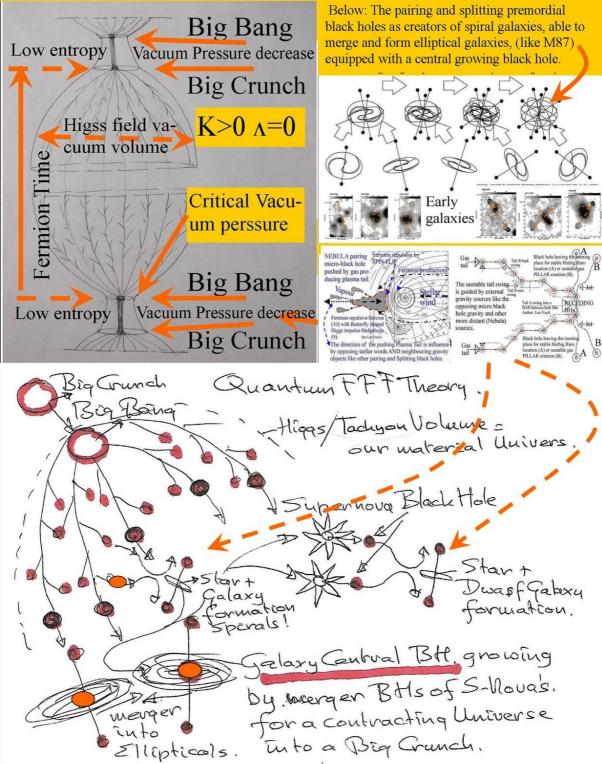


Figure 22, The new Cyclic Multiverse with CP(T) symmetric universes.

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

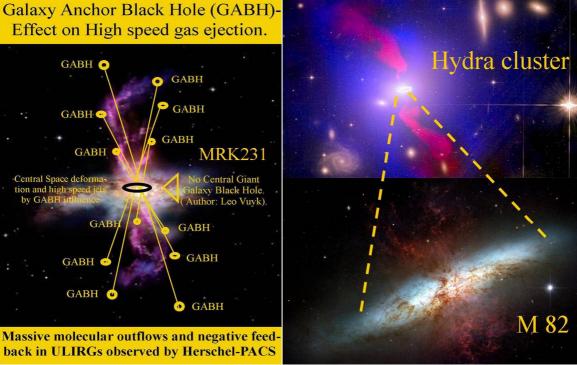


Figure 23, Primordial Galaxy Anchor black holes.

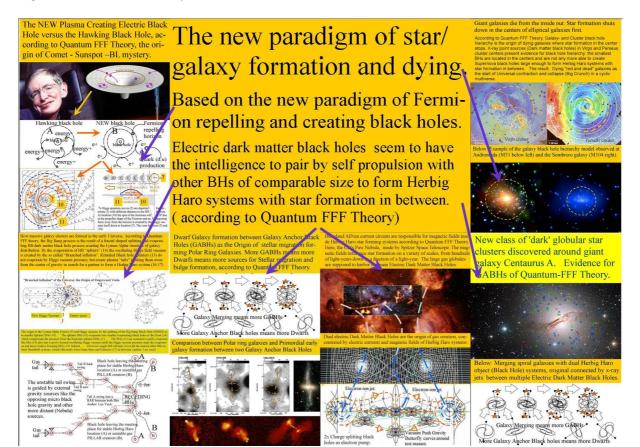


Figure 24, star formation and dying according to Quantum-FFF Theory.

### 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.

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

16, If our material universes has a chiral left handed oscillating Higgs field, then our material Right Handed 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 ANTHMATERIAL 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.

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

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

 2: Dark Energy is the oscillating ( Casimir) energy of the massless (Axion-)Higgs Field equipped with a terthedron lattice structure with avaible Planck tength around black holes.
 17. All particles and waves should be entangled with anti-copy particles and Higgs field based waves in our consciousness should be explained by accomposing and inviveres.

 3: Quantum Gravity = Dual Push gravity: Attraction (Higgs-Gasimir opposing Graviton push),
 17. All particles and waves should be entangled duith anti-copy particles and Higgs field based waves in our consciousness should be explained by accomposing and inviveres.

 4: The Big Bang Splitters (PBS) forming the Fractale Lyman Alpha forest and evaporating particle duality and the so called one particle duale sit in therfurntion of Gluons. However Gluons should transfer form information to the oscillating luminferous Higgs field etter, within about 1 cm distance from a form afore there tementary particles have different qualities by their different complex stringy shape. Leptons and Quarks have a propelier shape with left or right handed pitch creating charge difference. Gluons, Pho 

 6: Spiral Galaxies will keep obth Primordial Dark Matter Black Holes as Galaxy Anchor Black Holes (GABHs) at long distance.
 Internet energy tethe shape w

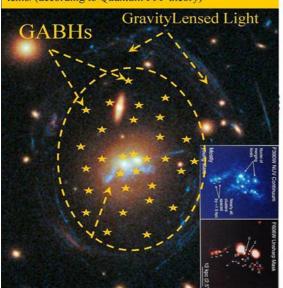
20 All particles can be converted to one or more Higgs particles, Lepto Quarks are also compound parti-cles with an exeption for the electron and positron... 21 All particles are assumed to be present as Higgs particles already in the cyclic Big Bang Black Hole (BBFH) after the former multivers has collapsed 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' in an 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)



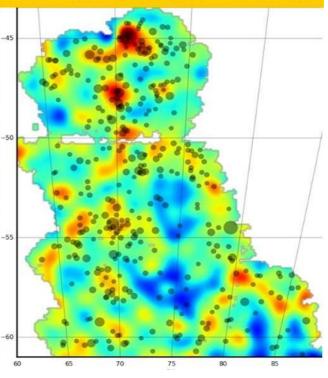


Figure 26,

### 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.

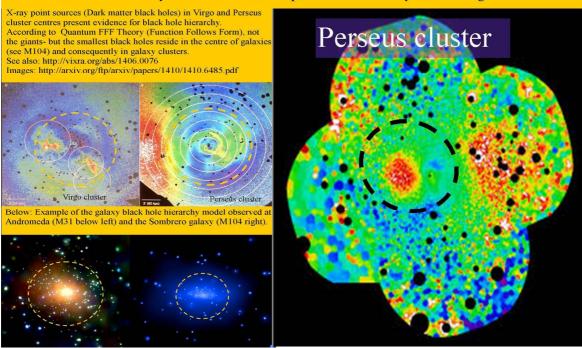


Figure 23

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

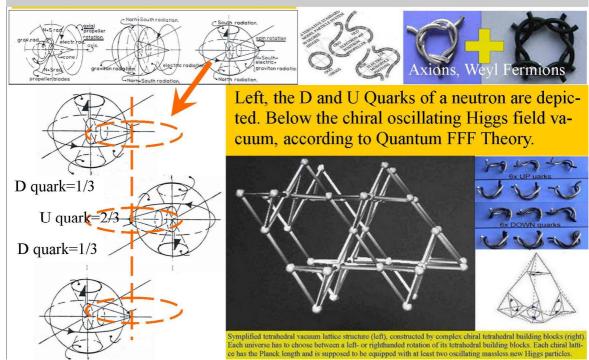
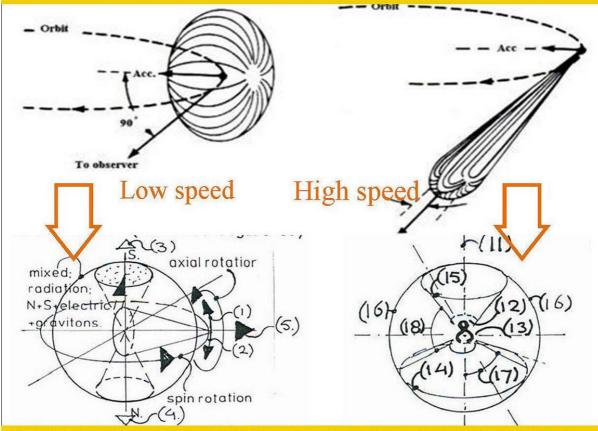


Figure 28, DDU Neutron- Quark configuration

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.

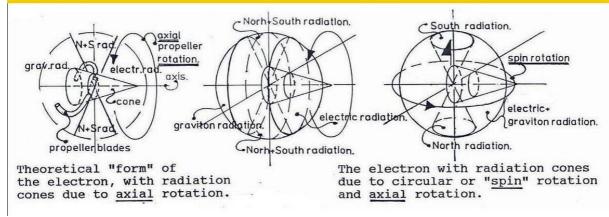


Figure 29, Propeller shaped Fermions and the synchrotron effect.

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