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

Leo Vuyk,
Architect,
Rotterdam, the Netherlands.

#### 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.

These shapes permit the particles to have different functions like different masses and interlocking abilities with other particles to form quantum knots such as quarks, W-Z particles 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:

- 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..

- 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 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.

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 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

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.

function collapse or human choice is guided by this instant entanglement at long distant.

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

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)



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.

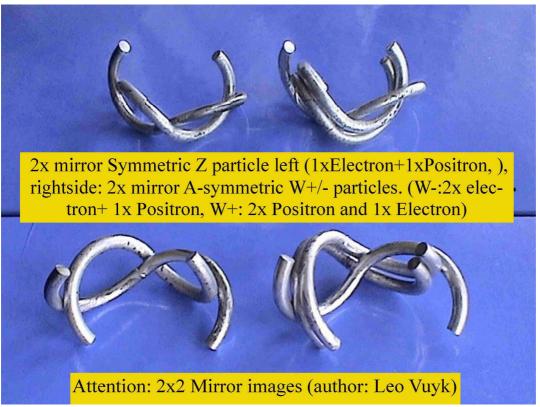


Figure 2 Geometric proposal for the Z and W particles. Z particles are symmetrical without propeller spin effects. W particles are not symmetrical with propeller spin effect left or right spin.

## 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.

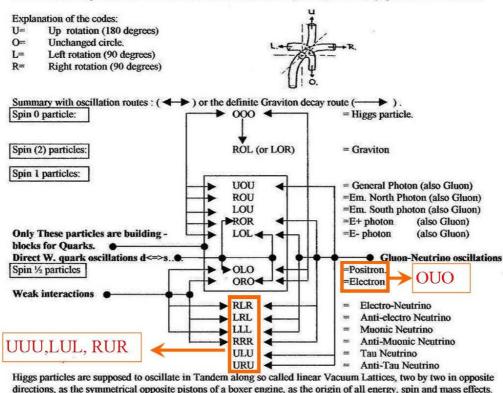
LHC-CMS in ZZ channel. The massless transformable ring shaped Axion /Higgs vacuum particle is supposed to act as the mother of all single and compound rigid string particles fermions/neutrinos, photons etc. Massive ZZ particles are compound electron /positron interlockers, with 650 GeV in the LHC-CMS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



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 Torus into an Electron and Positron pair at

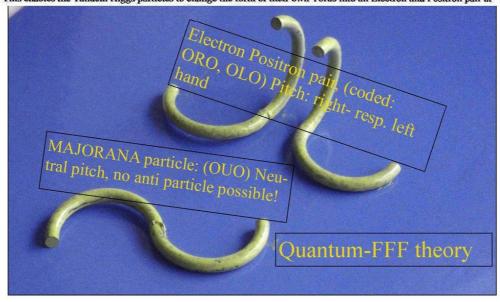


Figure 4, The geometric principle of Quantum FFFModel.

# 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

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

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

Electron: ORO.
Positron: OLO.
Majorana: OUO

UOO-UOU-<u>OOU</u> ULO-ULU-<u>OLU</u> UUO-UUU-<u>OUU</u> 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.

Neutrinos:

LLL-RRR = $v \to (+/-)$ 

LLU-RRU= v Mu (+/-)

ULU URU=v Tau (+/-)

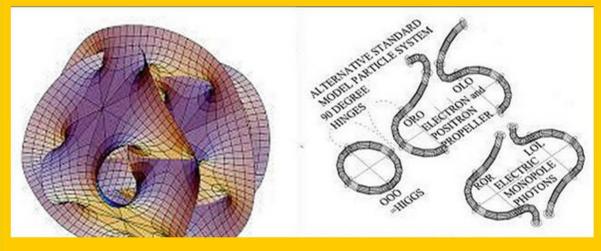


Figure 5, The principle based on 3x hinge rotaions of 90 degrees.

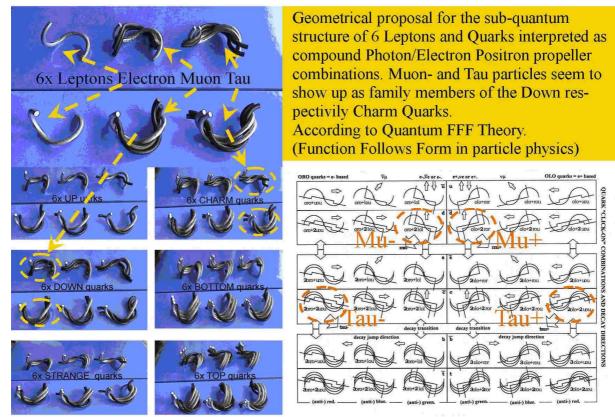


Figure 6, general view of the basic particle zoo.

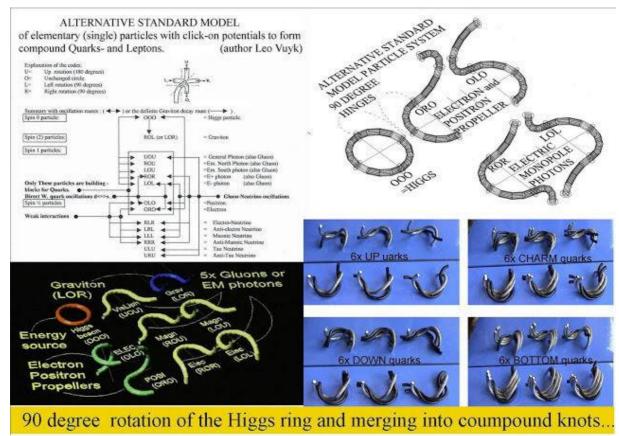


Figure 7, most common particles.

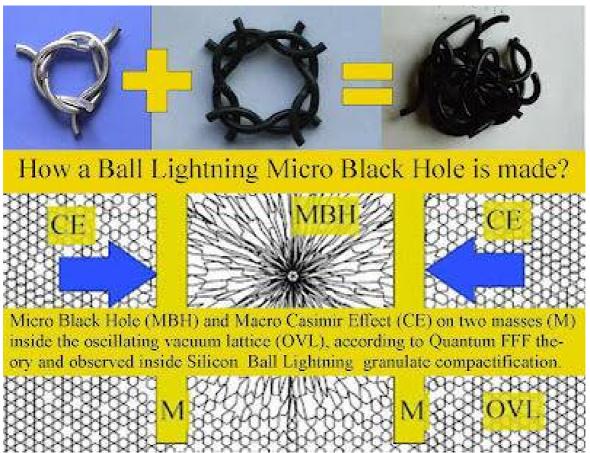


Figure 8, basic elements for black hole formation, with vacuum deformed structure around a black hole.

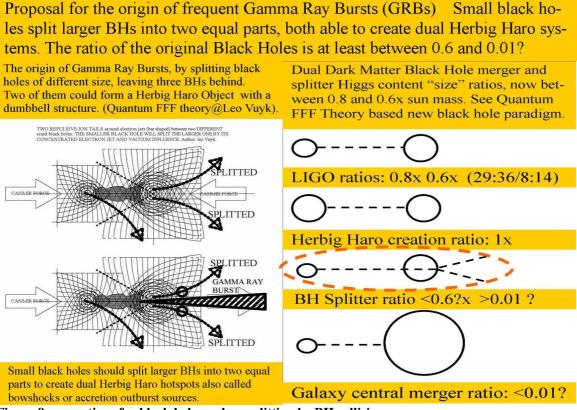


Figure 9, suggestions for black hole nuclear splitting by BH collision.

## 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.

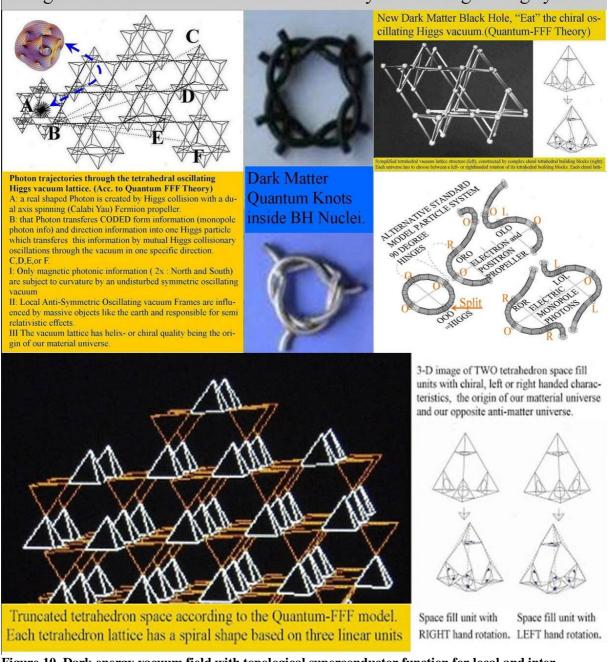


Figure 10, Dark energy vacuum field with topological superconductor function for local and interuniversal entanglementas a base for avefunction collapse and democratic free will according to Quantum FFF Theory.

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.

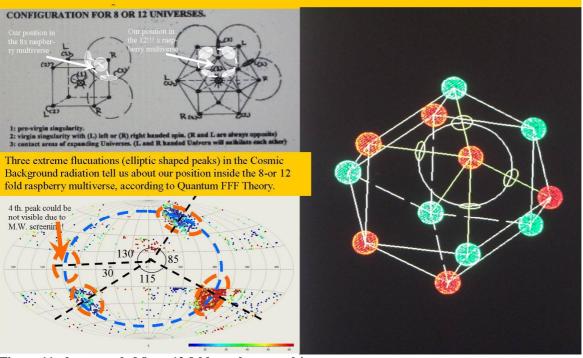


Figure 11, the entangled 8- or 12 fold raspberry multiverse.

## 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.

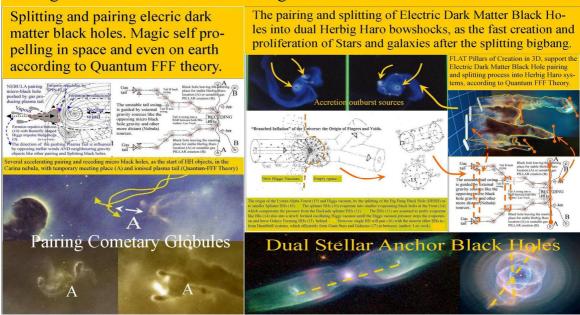
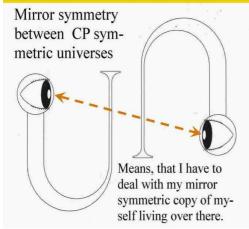


Figure 12, great misconceptions in astronomy and the solution with alternative electric dark matter black holes able to combine into Herbig haro objects with star formation in between.

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

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.



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 farmer cyclic multiverse was still too high for a fine grained fractal process (see my book).

Beyindary of observation, the edge of the visible universe.

The Earth Rearth Rear

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 cnetral galaxy S-nova black holes. According to Quantum FFF Theory.

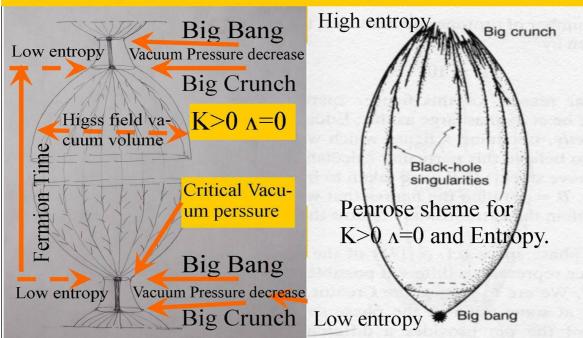


Figure 14, The consequence: a bouncing CP(T) symmetric multiverse.

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.

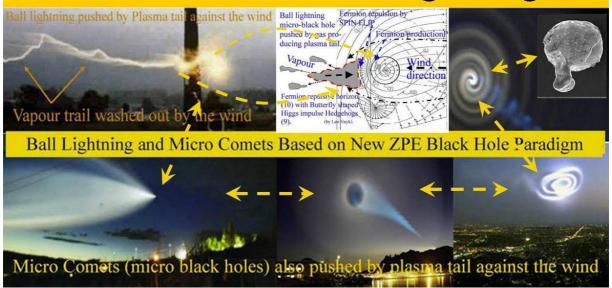


Figure 15, examples of micro black hole based Ball Lightning and micro comets on earth.

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.

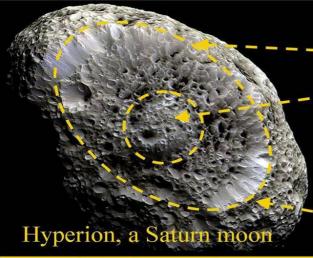


## Other examples of BLs with plasma tails



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

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



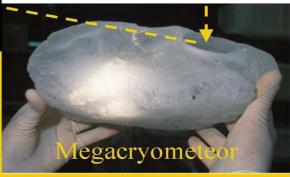
Cross section through a Megacryometeor or Terrestrial micro Comet nucleus.

External hole.

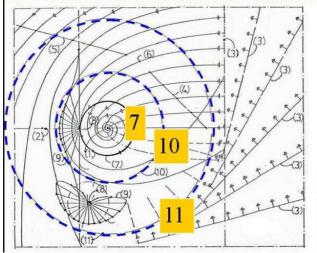


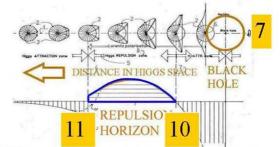
Expected ice structure of the ellipsoidal ice chunk (Megacryometeor) found by J.M.Frais (Madrid). According to Quantum FFF theory this chunk should be the Nucleus of a Terrestrial Micro Comet, produced by a new paradigm black hole, which left the nucleus through the external hole, in consonance with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



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 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.





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 to the propeller shape of the Fermion and an 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 (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.

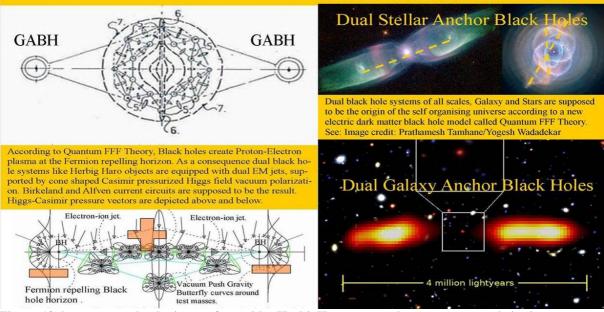


Figure 18, how stars and galaxies are formed by HerbigHaro systems between two equal sized new paradigm black holes.

# 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 Growing black ho 3C405 The dual black holes (the hotspots) are supposed to produce all the plasma needed for star formation in the center. After stellar Super Nova black hole production, a growing central black hole is created by merging with other BHs being the forerunner of the Big Crunch. Ejecting star Ejecting star im Push Gravity Fermion répelling Black Butterfly curves around hole horizon

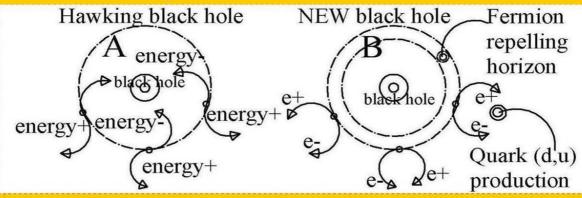
Figure 19, Binary star production.

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.

polarization of conscious propeller Fermions (s) to keep a non accelerated flight. Quantum Gravity as pressure distribution of the Polarized Fermion Mass in motion through the oscillating dual Higgs/Graviton vector field. resistive, but also pushing oscillating Higgs vacuum (according to Quantum FFF theory) ON (S) HIGGS FORCE HIGGS FORCE Cross section through the dual Higgs/ Graviton 3D vector field pressure distribution (or globular Hedgehog) on a point mass (1) located on earth's surface (2), according to Quantum FFF theory. 3+4= Higgs vector field. 6= Graviton vector field originated by the Higgs-graviton field transformation of the earth itself. 7+8= differences with a perfect globular vector distribution. Field variables 3+6 are rendered as inversed arrows. (see also black hole pressure distribution without gravitons)

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

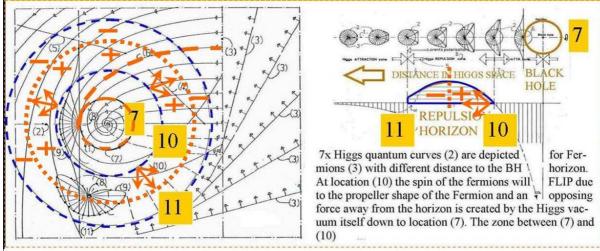


Figure 21, the new electric dark matter Black Hole paradigm.

## 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.

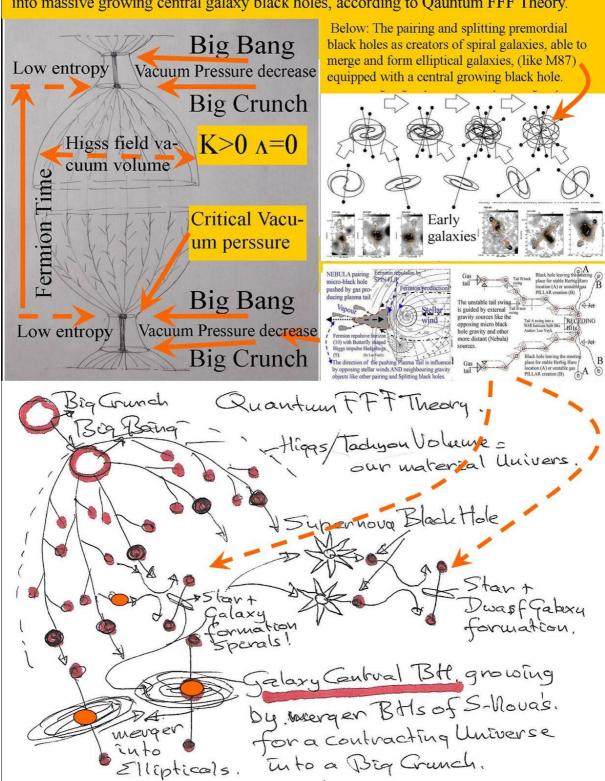


Figure 22, The new Cyclic Multiverse with CP(T) symmetric universes.

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

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

GABH

Central Space deformastion and high speed jets by GABH arthrence

(Author: Leo Vuyk).

M 82

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

**GABH** 

GABH

**GABH** 

**GABH** 

Figure 23, Primordial Galaxy Anchor black holes.

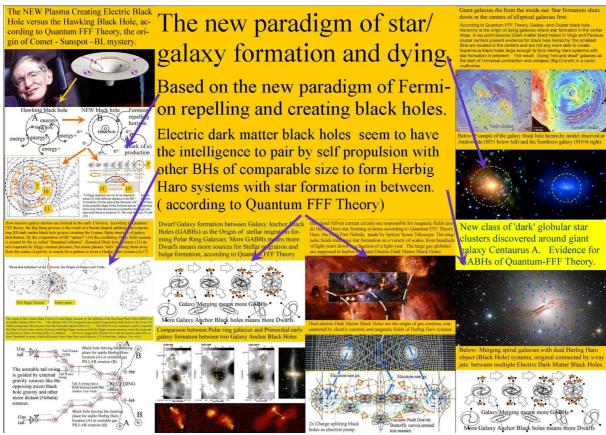


Figure 24, star formation and dying according to Quantum-FFF Theory.

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



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.

- 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 Indizon fluctuations).
- pellers (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 elec-
- trons.

  10: The first Supernovas produce medium sized Black Holes as the base for secondary Herbig
- 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.

- 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:

  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 letrahedron lattice structure with variable Planck length around black holes.

  3. Quantum Gravity = Dual Push gravity= Attraction (Higgs-Gasimir opposing Graviton push).

  4. The Big Bang is a Splitting dark matter Big Bang Black Hole (BBBH), splitting into smaller Primordial Big Bang Splinters (PBBS) forming the Fractalic Lyman Alpha forest and evaporating party 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.

  - 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.

  - 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 Ido?
- 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 shaped multiverse with 8-12 berries jis non local instant connected down to each quantum. Each quantum

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.

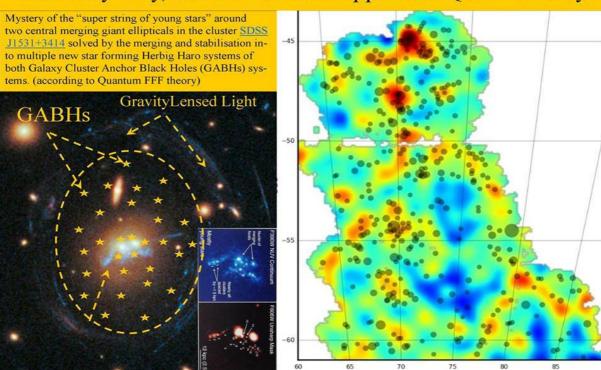


Figure 26,

## 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.

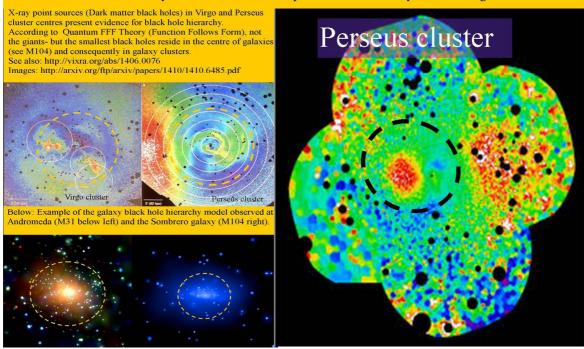


Figure 23

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

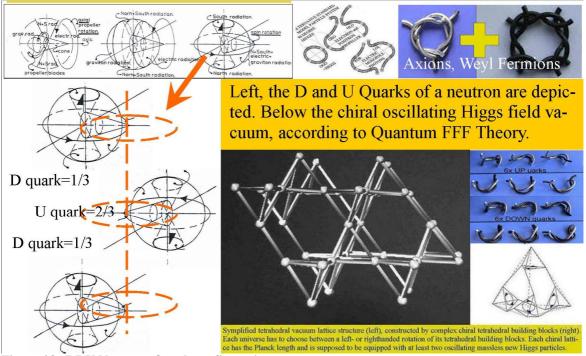
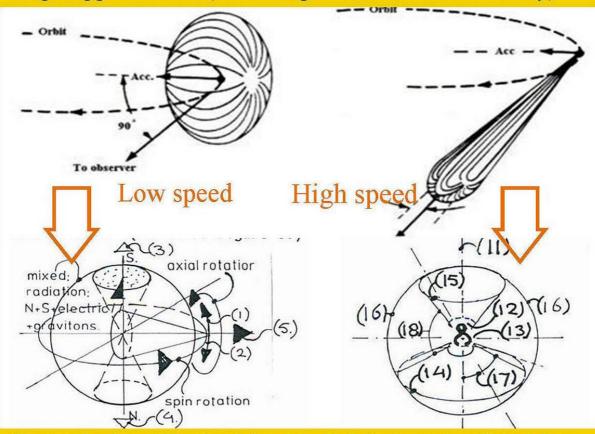


Figure 28, DDU Neutron- Quark configuration

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 focusing into the opposing vacuum direction (15) and the Spin rotation has gone.

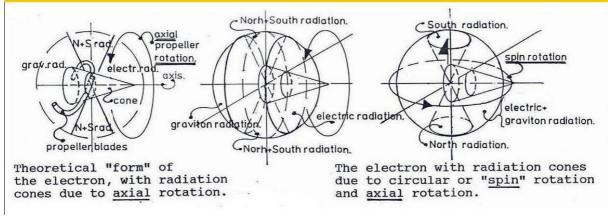


Figure 29, Propeller shaped Fermions and the synchrotron effect.

#### **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. <a href="http://vixra.org/author/leo\_vuyk">http://vixra.org/author/leo\_vuyk</a>
- [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 Propuslion 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.
- [58] viXra:1503.0186 Primordial Dark Matter Black Holes Outside Galaxies Responsible for the Creation and Contraction of a Cyclic Universe? 22
- [57] viXra:1503.0097 Qauntum FFF Theory, Poster News 4.2
- [56] viXra:1502.0086 Parity and Chirality as a Base for Quark-Gluon Plasma and Dust Creating Black Holes and the Beginning and End of Time..
- [55] viXra:1411.0039 Qauntum FFF Theory, Poster News 2
- [54] viXra:1410.0039 Evidence for Dark Matter Black Hole Based Plasma, Dust and Ice Production Inside Comets Like 67P,C-G. and the Growing Earth.
- [53] viXra:1409.0164 The O'Connell Effect in Eclipsing Binaries Explained by Mass Related Light Speed Extinction Distances (Lasof) of Stars and Even Planets.
- [52] viXra:1407.0001 Evidence for Evaporating Dark Matter Particles in Silicon Fireballs.
- [51] viXra:1406.0076 Galaxy Formation and Evolution According to Quantum FFF Theory.
- [50] viXra:1406.0019 Quantum FFF Theory Proposals for Some Unsolved Physics Problems.
- [49] viXra:1405.0224 Dual Star Ejection in Open Star Clusters by the Central Star.
- [48] viXra:1404.0151 Future Free Energy of New Physics Ball Lightning Black Holes, the Origin of a Super Social Society or the Opposite?
- [47] viXra:1404.0002 Proposal for the Origin of Unexpected Large B-Modes Found in the Bicep2 Measurements.
- [46] viXra:1402.0132 Reconciliation of GR and QM by a New Gravity-Black Hole and Lightspeed Model Called Quantum- FFF Theory.
- [45] viXra:1402.0044 The Impossible Zero Point Electric Black Hole as the Origin of New Physics even for Comets like 67P,C-G.

- [44] viXra:1401.0115 Calabi Yau Shaped Double Fermion Spin States.
- [43] viXra:1401.0071 Democratic Free Will in the Instant Entangled Multiverse.
- [42] viXra:1312.0143 The Navel Cord Multiverse with Raspberry Shape, a Super Symmetric Entangled 12 Fold Bubble Universe.
- [41] viXra:1312.0076 Are Sunspots Made of Gravitating Dark Matter Black Holes?
- [40] viXra:1310.0101 The New Nuclear Magic Number (34) Explained by the Polar Coaxial Ring System of Quantum FFF Theory.
- [39] viXra:1310.0059 The Semi Relativistic Higgs Field Aether with Mass Related Lightspeed Adaptation.
- [38] viXra:1309.0081 New Physics by Table Top Experiments.
- [37] viXra:1308.0083 23 The Raspberry Shaped Super Symmetric Multiverse
- [36] viXra:1307.0068 Quantum Function Follows Form Theory, the Small Scale, Posters part 1.
- [35] viXra:1307.0067 Quantum Function Follows Form Theory, the Large Scale, Posters part 2.
- [34] viXra:1306.0218) Dark Matter UFO Dust Particles or Quantum Knots in the LHC at CERN?
- 33, viXra:1306.0065 The Splitting Dark Matter- Black Hole- Big Bang and the Cyclic Multiverse.
- 32, viXra:1305.0140 Quantum FFF Theory Experiments, a Summary.
- 31, viXra:1305.0041 The Shnoll Effect Explained by Quantum FFF Theory.
- 30, viXra:1304.0022 The Self Organizing Universe in the Carina Nebula.
- 29, viXra:1303.0211 Hubble Redshift Combined with Universal Contraction is Possible.
- 28, viXra:1303.0053 Micro Birkeland Currents Between Two RF Generated Plasma Balls in the Laboratory.
- 27, viXra:1302.0172 Silicon Based Ball Lightning Globule Structures and Signs for Accumulation and Retarded Decrease of Tunnelling Energy Bullets.
- 26, viXra:1301.0088 Two or Three Large Quasar Groups (LQGs) Located at the Start of Two or Three Lyman Alpha Systems and a Part of the Raspberry Multiverse?
- 25, viXra:1301.0050 Dwarf Galaxies and Their Relation with Dark Matter Based Galaxy Anchor Black Holes (Gabhs).
- 24, viXra:1210.0177 Instant Broglie Bohm Pilot Waves, the Origin of All Entanglement Effects in the Lab and Wavefunction Collapses in Our Universe as Related to Our Opposing Anti-Copy Universe(s) According to Quantum FFF Theory.
- 23, viXra:1209.0092 New Dark Matter Black Holes and a New Dark Energy Higgs Field, Lead to a Bouncing CP Symmetrical Multiverse, and New Experiments.
- 22, viXra:1209.0061 Birkeland Currents, Sunspots, Comets and Ball Lightning Originated by New Paradigm Dark Matter Black Holes.
- 21, viXra:1209.0030 Majorana and Sterile Neutrino Solutions in the Quantum-FFF Model.
- 20, viXra:1208.0031 Clumpy Dark Matter Around Dwarf Galaxies a Support for an
- Alternative Black Hole Theory According to the Quantum Function Follows Form Model.
- 19, viXra:1202.0091 Earth Magnetic Monopole Array Field Interaction with Cyclotron Synchrotron Electrons and Muon Conversion Used for Levitation Systems.
- 18, viXra:1201.0092 Earth Magnetic Monopole Array Field Interaction with Cyclotron Electrons used for Levitation Systems.
- $17,\,viXra:1112.0065$ 24 LHC Signals Between 121-130 Gev Interpreted with Quantum-FFF Theory
- 16, viXra:1111.0096 Reconciliation of QM and GR and the Need for a Pulsating Entangled CPT Symmetric Raspberry Shaped Multiverse.

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

\_\_\_\_\_\_