

A different Black Hole Horizon Interpretation leading to Entropy Reduction and Violation of the Second Law.

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Abstract,

According to Function Follows Form Theory,
Hawking mathematics of a black hole horizon should be interpreted differently.
Too weird to be true?

My conclusion is that

Stephen Hawking is still too anxious to admit that the splitting of positive mass (going out) and negative mass (going in) at the black hole horizon should lead to violation of the second law of thermodynamics , by entropy decrease!!

So, the Hawking mathematics of a black hole horizon should be interpreted differently.

All Fermions (with positive mass) should be repelled at the horizon! The ingoing negative mass (suggested by Hawking) should be interpreted as the dark energy of the massless oscillating Axion-Higgs vacuum lattice including all photonic energy connected to the vacuum.

If we include existence of microscopic interference black holes (or Quantum Knots) then Ball lightning and micro comets (incl Comet and sunspots) are to be explained as micro black holes violating the second law of thermodynamics. The FORM and MICROSTRUCTURE of elementary particles, is supposed to be the origin of FUNCTIONAL differences between Higgs- Graviton- Photon- and Fermion particles. As a consequence, a NEW splitting, accelerating and pairing MASSLESS BLACK HOLE, able to convert vacuum energy (ZPE) into real energy by entropy decrease, seems to be able to explain quick Galaxy- and Star formation, down to Sunspots, (Micro) Comets, Lightning bolts, Sprites and Elves, Sprite Fireballs and Ball Lightning. Recently the NASA-SOHO satellite photos showed clear evidence of multiple hotspots created at the solar surface by interference . I assume that the majority of the hotspots can be compared with Micro Comet- or fireball phenomena related to Sprites..

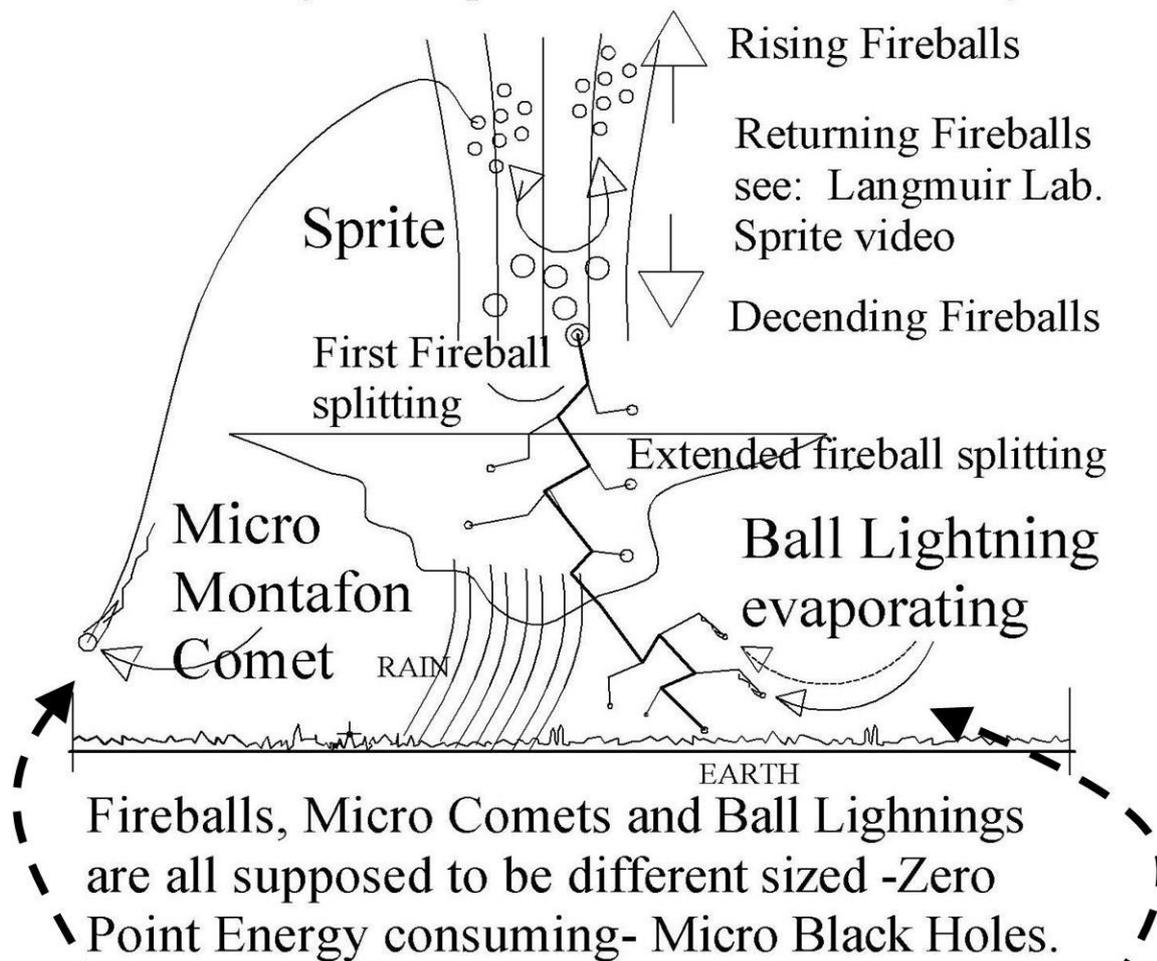
introduction.

Quantum FFF theory states, that the vacuum is seeded with fast oscillating massless Higgs particles, oscillating along a complex chiral tetrahedral vacuum lattice, which has the ability to transfer Photon and Graviton FORM information in bunches of oscillations, through the vacuum lattice with the local speed of light. Ref [5,6,8,9]. As a consequence there are no attraction forces on propeller shaped Fermions. Gravity seems to be the result of two different impulse arrays: the massless Higgs impulse array and the (less effective) massless Graviton impulse array. As a consequence Black holes suffer only Higgs impulses and NO gravitons are escaping because the nucleus of the black hole is supposed to be a super dense knot of Higgs particles. (Ref. 2). Only the statistical sum of the different kinds of vacuum impulses from all directions on Fermions are responsible for all (energetic) phenomena in the universe. Ref.[1,2,3,4,9] the Q-FFF alternative for Feynman diagrams.

The accelerating plasma tail of NEW paradigm black holes (Ref.1,4), and the splitting black hole, is supposed to be the origin of a smooth proliferation of black holes in the universe and Gamma ray Bursts (GRBs). The Eagle Nebula, (figure: 10) seems to be a great example of a smooth proliferation of black holes by the splitting of black holes through Galaxies and Nebula.

In this letter, we present a comparable system of splitting black holes on the micro scale related to Sprite fireballs and Lightning bolts. Recently the NASA-SOHO satellite photos showed clear evidence of multiple hotspots created at the solar surface. I assume that the majority of the Solar hotspots can be compared with Micro Comet- or fireball phenomena related to Sprites..

Production hypothesis for Ball Lightning and Micro Comets on Earth, according to Quantum FFF theory. 12-April 2011. Author Leo Vuyk.



Two observations as a support for the theory..

Figure 1, simplified representation of the relation between the creation of Fireballs inside Sprites and Lightning strokes with the resulting fireball effects on Ball lightning and Micro Comets as is found in Austria (Montafon area) by Werner Burger.

Werner Burger reported: some raindrops fell thunder storm was far away. A strong support for the hypothesis that Sprites located at the top of heavy Thunderstorms produce Fireballs (micro black holes), which can travel over long distances and present themselves as micro Comets or Ball lightning far away from the Thunderstorm.

The Nucleus of the NEW Physics Interference Black Hole



A micro-ball of rigid transformable strings, compressed by the oscillating Axion-Higgs Vacuum lattice= Dark Energy. The Nucleus itself count as Dark Matter, according to Quantum FFFTheory.



The creation of a micro interference BH nucleus. Photo credit W.H. van Overhagen 1991 (Canon) Oegstgeest Netherlands.

Figure: 2.

The laws of physics break down around black holes even around microscopic interference black holes (Ball Lightning and micro Comets).

Even the most basic physical second law of thermodynamics is not secure around (interference) black hole horizons.

A New physic model is needed, leading to a cyclic multiverse with autonomous creation and destruction of life and matter everywhere in the universe around dark matter quantum knots called black holes.

A model based on Non Local Realism and Rigid String particles, guided by multi universal entanglement leading to democratic human retarded veto based free will and consciousness.

Descarte's: "I think therefore I am", changes into: "We think therefore we are" only based on our ability to VETO our acts and desires.

<http://vixra.org/pdf/1612.0026v2.pdf>

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 Splinters (PBBS) forming the Fractal shaped 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 Axion Higgs field because two rigid massless but mutable Higgs particles are convertible into symmetric

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

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 Vigièr postulated that quarks and leptons are "pushed around" by an energetic sea of vacuum particles.

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

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

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

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

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

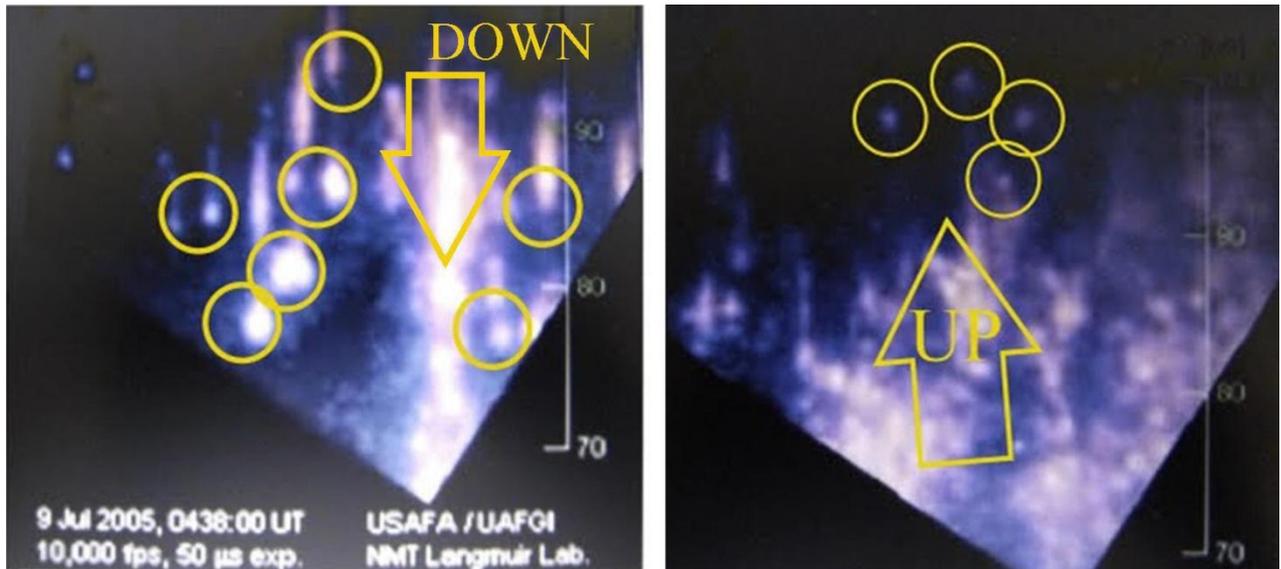


Figure 3, FIREBALL images observed inside a Sprite by a video. The video is made by a High speed camera (10.000 f/sec) of the Langmuir laboratory (USA, 2005) looking at 70-120 km altitude.

Left side: Fireballs are rapidly falling, right side and with only micro seconds delay, smaller Fireballs are rising.



Figure 4, Micro black holes, splitting and evaporating at the top of the lightning leaders, sometimes assumed to evolve into a ball lightning.

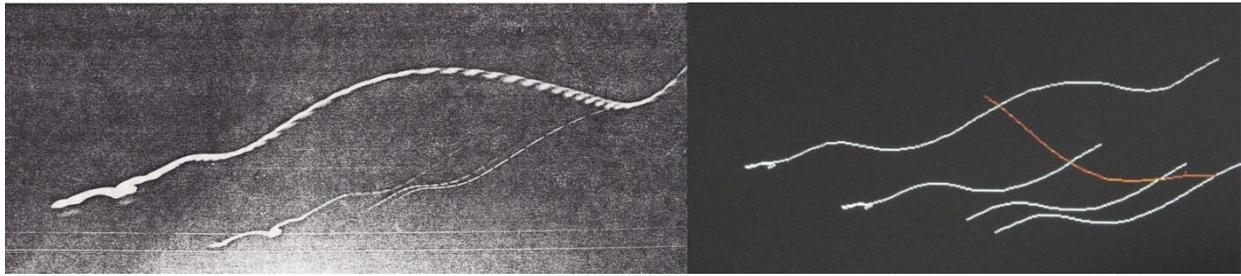


Figure 5, Example of micro black hole production possibly by strong electromagnetic or x-ray interference at sea level. There are four traces to be observed with comparable waveforms. (see also at the right side: reconstruction image). The left photo is made by Mr. Overhagen (the Netherlands) by automatic shutter camera through his roof window, during heavy thunder storm. The two bumps at the end of two waveforms could be the start of the formation of a micro Black hole.

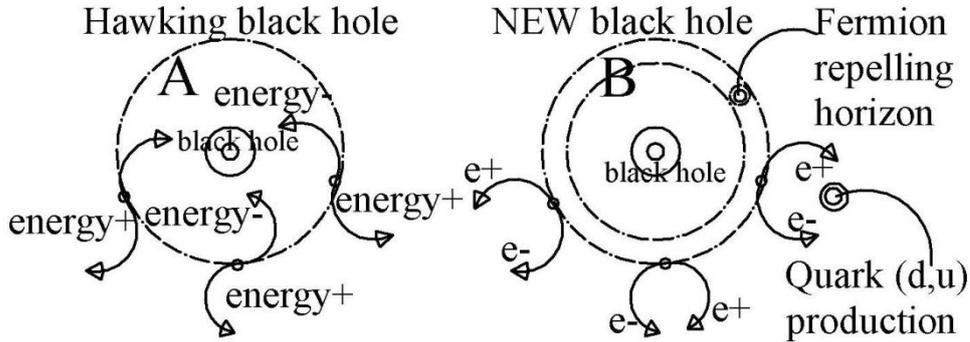
The same formation process is supposed to be active inside Sprites by the formation of Fireballs observed in the Langmuir videos (Figure 2).



Figure 6, Photo of a Ball Lighting made in Japan.

Why is it that Fireballs inside sprites go down and UP again? The reason must be found in the comparison with Ball lightning qualities on earth, they seem to be pushed by plasma tails.

The NEW Black Hole Paradigm



The standard Hawking Radiation postulate is: that all matter (NOT all energy) is drawn into the Black hole.

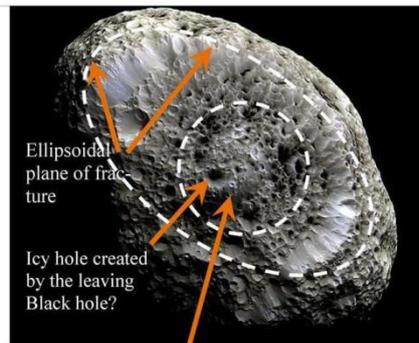
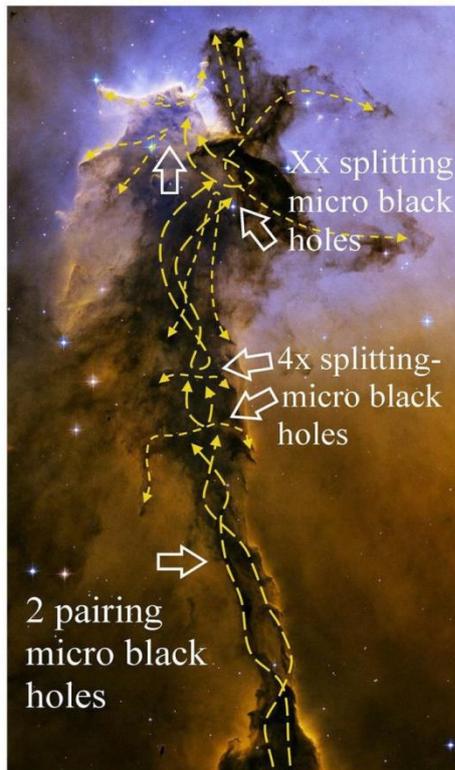
My NEW postulate is that matter is created (and pushed outside) at the Black hole horizon by QUANTUM FLUTUATIONS producing electrons and positrons.

Some electrons and positrons will annihilate, but the rest will form Quarks and plasma, because the Higgs vacuum lattice is CHIRAL and prefer to link gluons to positrons. Thus more electrons will stay single and form atom shells!

Due to the propeller shape of the particles all the plasma is repelled away from the black hole!! The black hole will not evaporate !

This is the base for NEW Physics and a support for a new explanation of Cometary X-rays, Hydrogen and AMINO ACID production. Even Gas Pillar and Herbig Haro formations inside Nebula become a logic base. Author Leo Vuyk.

Figure 2, Principle of the new black hole paradigm All Fermions going OUT only dark energy of the oscillating Vacuum lattice frame is going IN..



Hyperion's globular inner nucleus is a firm indication of entropy decrease at the boundary between Higgs repulsion and attraction zones (4) around NEW (micro) black holes.

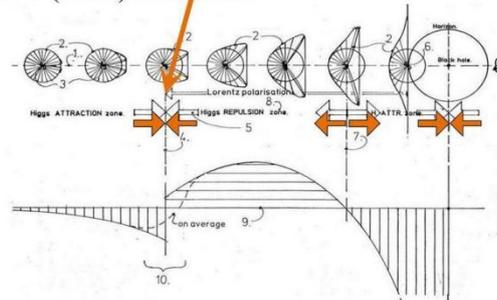
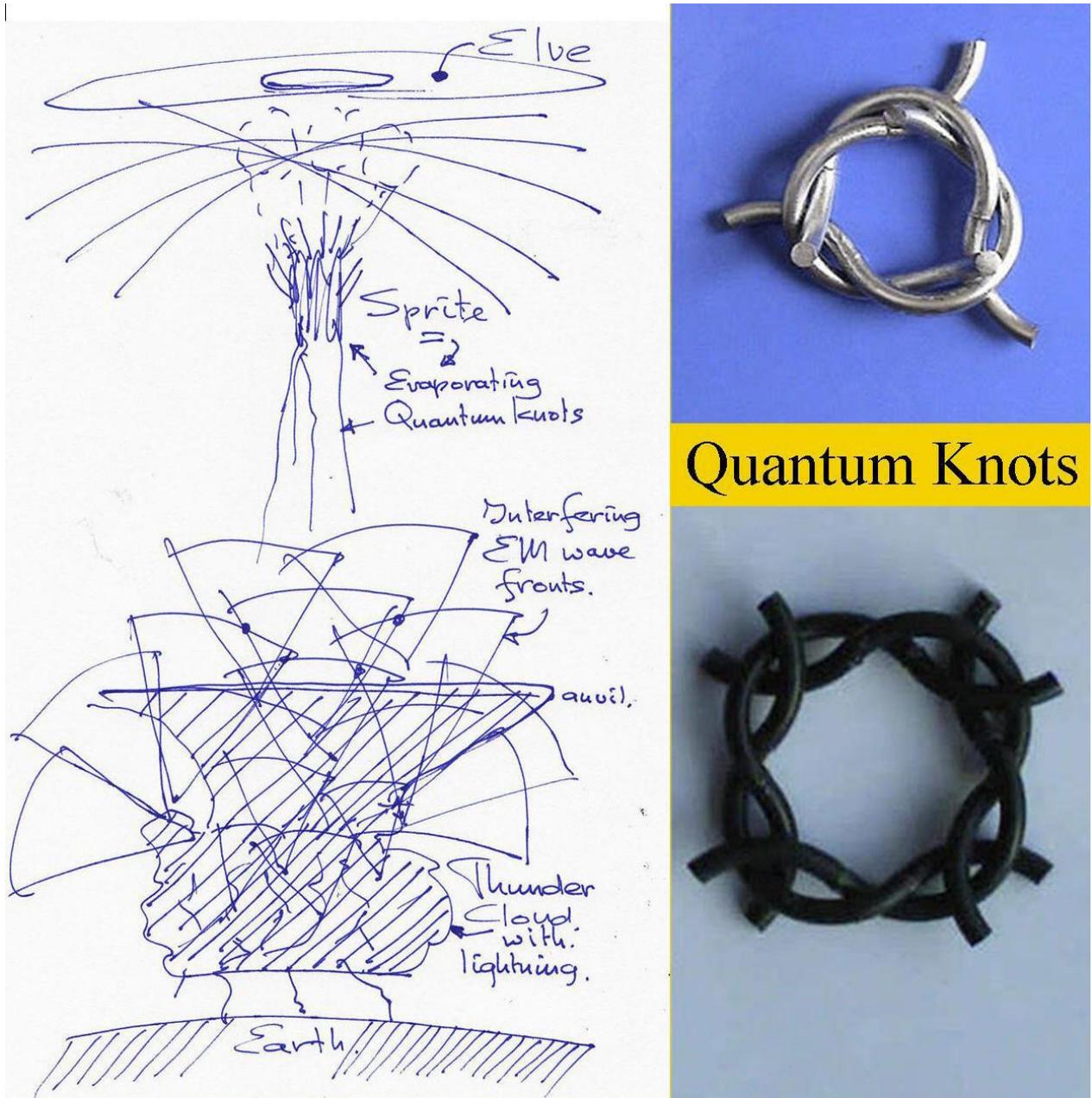


Figure 3, Comparison with splitting and pairing Micro black holes inside Planetary nebula (Eagle) , and the formation of comet nuclei like the Hyperion icy nucleus.

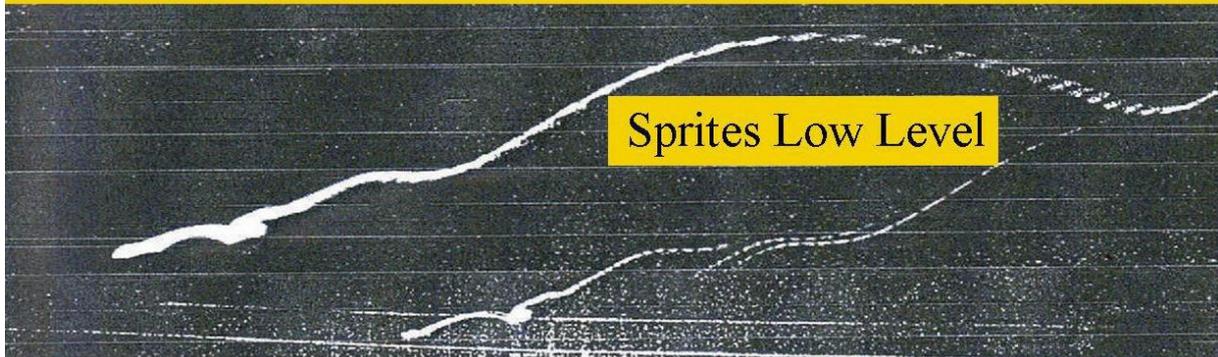
It is assumed that so called Universal Gamma ray Bursts are produced by the splitting of micro or mini-black holes in space, such as inside Planetary Nebula. (figure 10) **Ref [4]**.



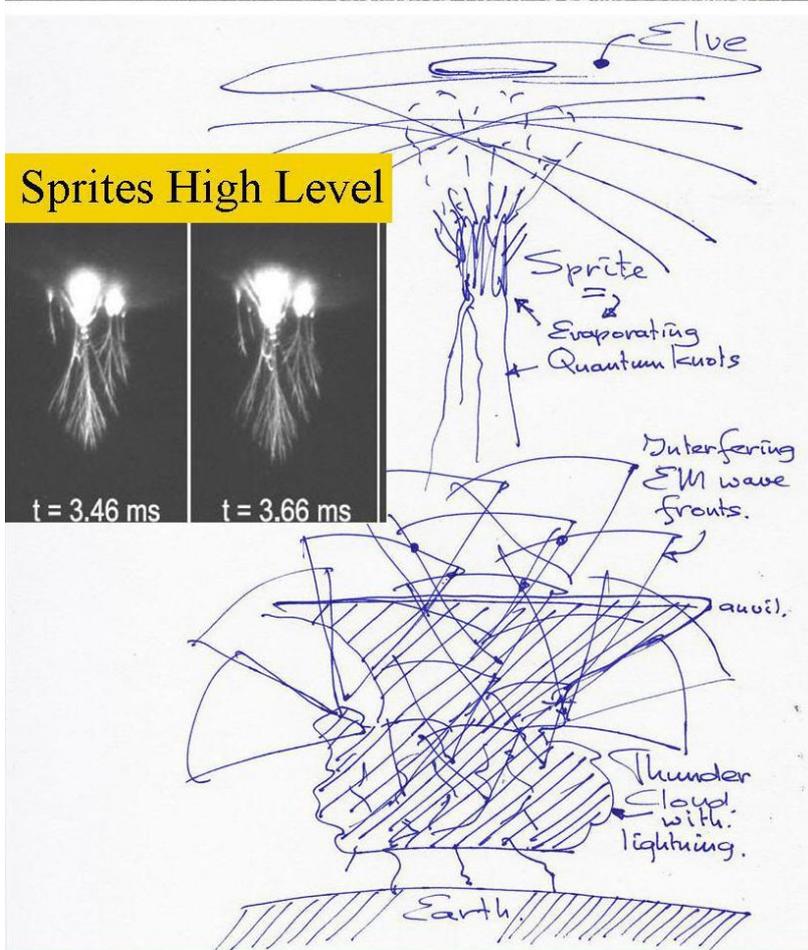
Quick evaporating Quantum Knots as the origin of Sprites and Elves at high altitudes (50-100 km). According to Quantum FFF theory, Electro magnetic wavefronts (photons) are in special geometrical cases like Silicon crystal structures, able to form Quantum KNOTS. These knots are supposed to be unstable nano black holes.

Figure 11. Sketch of the Sprite Elve system related to Thunder clouds and interfering EM wavefronts into small and larger Quantum Knots. In the middle of the Sprite however there is real micro comet and Ball lightning forming observed, representing more stable Quantum Knots or micro dark matter based Black Holes.

Quick evaporating Quantum Knots.



Sprites Low Level



Sprites High Level



Quantum Knots



Quick evaporating Quantum Knots as the origin of low level Sprites (roof top) and High level Sprites and Elves at 50-100 km altitude of short duration. According to Quantum FFF theory, Three or Four Electro magnetic wavefronts, are in special geometrical cases, able to form Quantum KNOTS by a geometrical interference process. (see: 2x different shaped particle knots) These knots are supposed to be quick evaporating unstable nano black holes.

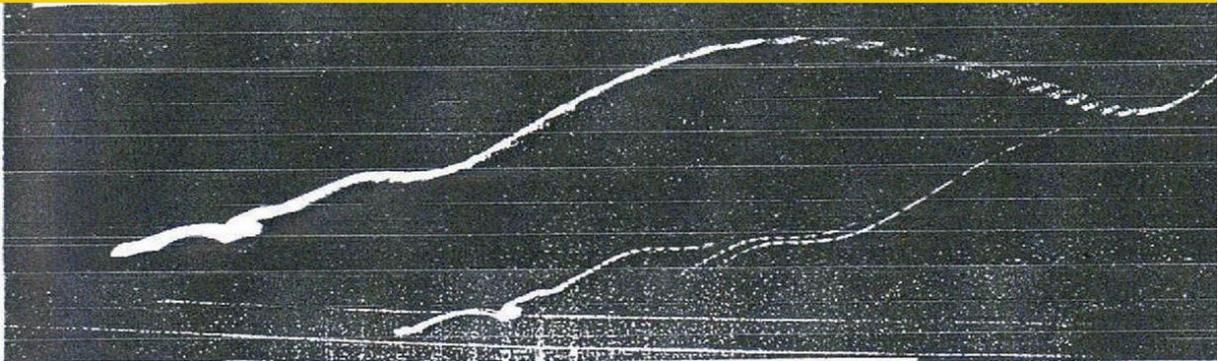
Figure: 12, Sprites: Quick Evaporating interference Quantum Knots (Micro/Nano Black Holes) the origin of Ball Lightning (photo: W.H. van Overhagen Oegstgeest 1991, printed in KJK aug 1993)

Production hypothesis for Quantum Knot Ball Lightning by Interference, Micro Comets, “Dark gamma Lightning” and Sprites, based on Photos and Langmuir fireball videos and Quantum FFF Theory 01-09-2013.

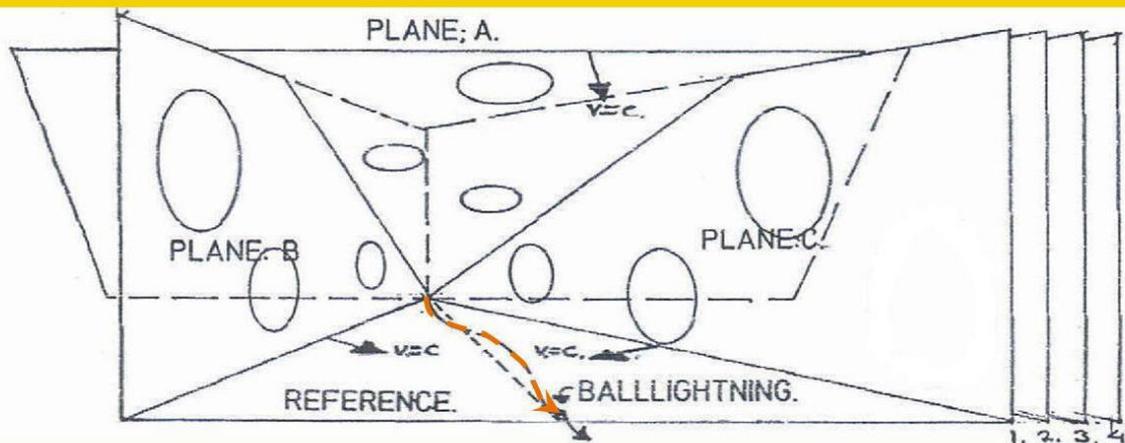


Figure: 13, Several examples of Quantum Knot Ball Lightning created by electro magnetic Interference, Micro Comets and Sprite fireballs combined with Gamma ray "Dark lightning".

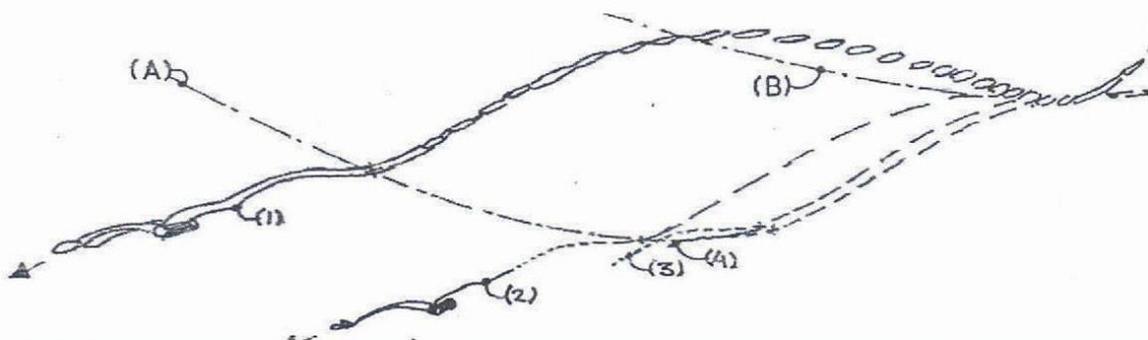
Birth of EM interference based Ball Lightning or micro Black Hole. (Quantum FFF Theory)



Birth of EM interference based Ball Lightning or micro Black Hole. (Photo: W.H. van Overhagen 11 aug 1991 during thunderstorm from roof window, the Netherlands)



Theoretical model of the origin of 4x separated trails of light, by three interfering but repeating (1-4) wavefronts.



Dashed lines (A and B) connect four corresponding bending points. Two traces (1 and 2) produce plasma balls (Ball Lightning) which seem travel on its own.

Figure: 14 The start of my Quantum Knot interpretation of Ball Lightning and other Black Holes, came to me by this photo.

As a result we may say: FUNCTION FOLLOWS FORM in particle physics and beyond, because it seems that the fermion form is also the origin of Fermion repulsion (spin flip) at the black hole horizon.

At the Universal scale however, CPT (Charge, Parity and Time) SYMMETRY between entangled copy Universes, forming a Multiverse with Raspberry geometry, seems the most logical solution for a theory of everything. (ref 3).

QUANTUM FFF Theory.

New Physics by the architecture of Quantum FFF (Function Follows Form)Theory.

Characteristics:

1: The clear MICROSTRUCTURE or the 3D FORM of elementary particles, (also called 3D-Preons) made out of convertible Higgs particles, is responsible for “Bound states of Fermions” and composite Quarks.

2: The Higgs is supposed to be energetic oscillating, it is the origin all particle motion and spin states and Dark energy (125 GeV) inside a truncated tetrahedron shaped chiral vacuum lattice. The lattice chirality (left or right handed) is the origin of our material universe. Higgs particles are zero point “Planck Oscillators” the origin of the Casimir force, waiting to be harnessed as free energy.

3: NOTHING SUCKS IN PHYSICS, Gravitons act with less pressure on Fermions than the Higgs vacuum (dark energy) and everything is ENTANGLED by INSTANT communication between at least two anti-copy UNIVERSES or MULTIVERSE, being entangled since the big bang.

4: Black holes of all sizes (down to ball lightning) do not emit gravitons, they feel only Casimir Gravity of the vacuum oscillations so they are massless but counter intuitively the origin of dark matter and producers of all Hydrogen by electron and Positron pairs as horizon fluctuations and repel all Fermions at the BH horizon.

5: The Multiverse is Pulsating by two phenomena, A; vacuum (Higgs) eating new paradigm dark matter black holes (causing the Hubble redshift) and B: by universal expansion caused by the oscillation force (Dark energy) of the Higgs vacuum lattice.

FUNCTION FOLLOWS FORM in Quantum FFF-Theory. The Microstructure of elementary particles, is supposed to be the origin of FUNCTIONAL differences between Higgs- Photon- and propeller shaped Fermion particles. Something SMALL is missing in mainstream physics: a NEW splitting and pairing MASSLESS BLACK HOLE, the origin of all dark matter, Ball Lightning Micro Comets , Comets, Sunspots up to Galaxy external Anchor Black Holes and the Big Crunch of the CP symmetric pulsating raspberry shaped multiverse.

The multiverse is a huge pinball machine, with dark energy in the form of linear oscillating double Higgs pins as the origin of photonic collision products with the propeller shaped Fermions as balls. All forces are the result of this entangled Pin-Ball interaction. The 125GeV Boson recently found in the LHC is not a single but a double massless 3rd generation Higgs boson linear oscillating in tandem as opposing boxer engine pistons in a chiral truncated

tetrahedron lattice. The 125GeV energy is the base for universal dark energy, the frequency is the base for local time and the length a base for the Planck scale. (Twin Higgs, Dual Higgs, Duplex Higgs, or Tandem Higgs) AS A RESULT, Free energy devices and electron-muon decay levitation is proposed. An unstable Higgs vacuum seems to be present around all black hole horizons by observed H₂ production and annihilation radiation created by pair production of positrons and electrons. (Instability of the Higgs field) see: http://vixra.org/author/leo_vuyk <http://www.lulu.com/spotlight/LeoVuyk>

Keywords: Dark Matter Black Holes inside Sunspots, Comets, Ball Lightning, outside: Stellar-, GalaxyAnchor Black Holes. (Origin of universal contraction). Dark Energy Higgs vacuum lattice, the origine of universal expansion. Dense aether model. Black Hole Casimir Gravity, Quantum knots. Einstein metrics with constant scalar curvature, 2-Higgs doublet model. (2HDM MODEL) Solar Bright Points, Leo Vuyk.

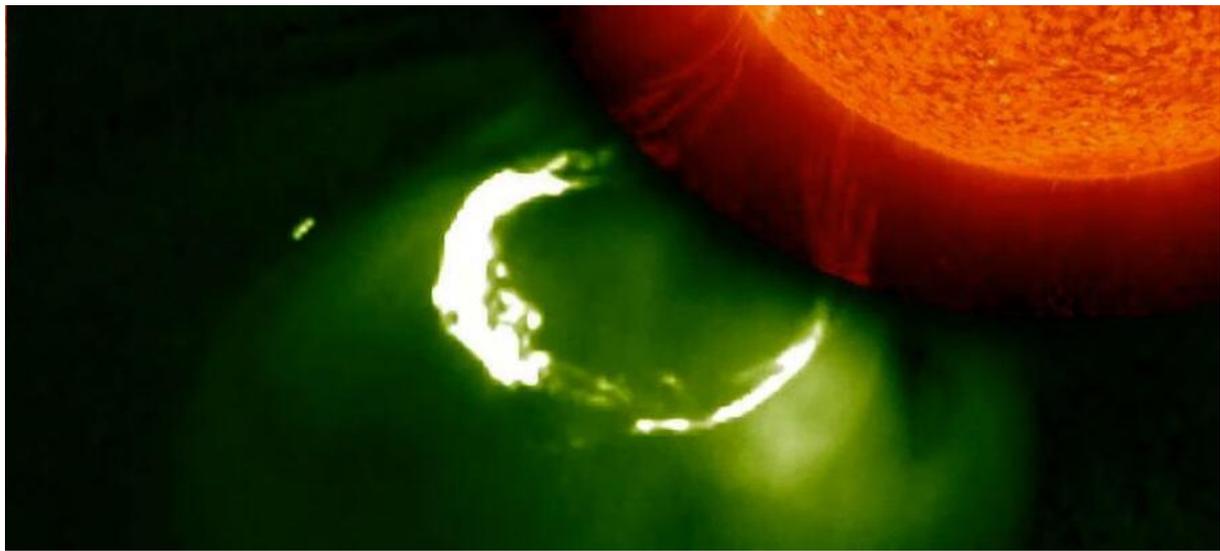


Figure: 16, Fireball production of the sun, leading to micro Comets comparable to Sprite fireballs on earth .

Conclusion,

The described observations related to Sprites, Elves and Lightning phenomena are a strong support for the new Black hole (Quantum Knot) paradigm of Quantum FFF theory described in references [1-9] and in figure 11 .

The production of Fireballs inside Sprites is supposed to be the start of all stepped lightning leaders and micro Comets, after a splitting process of the Sprite Fireballs into smaller sized micro black holes.

This process is supposed to produce the Terrestrial Gamma Flashes. (TGF)

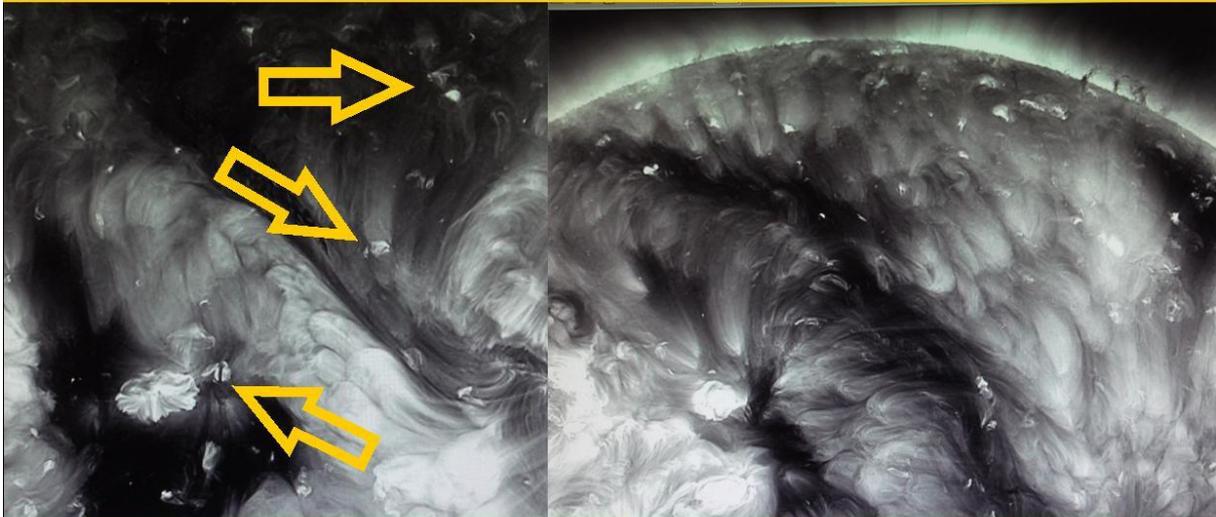
Some of these smaller reduced Fireballs seem to be able to rise again, pushed by plasma tails and become so called micro Comets forming an icy crust around the nucleus.

By forming more and more ice, the weight of the micro comet will increase.

After the weight becomes in equilibrium with the pushing power of the plasma tail, the Micro Comet will start to fall down to earth, like the Montafon Comet seems to do. (Fig. 1)

The rest of the reduced Sprite Fireballs seems to be unable to form plasma tails and are supposed to be the origin of x-ray emitting hotspots of the stepped leaders going down.

According to Quantum FFF Theory, Sunspots are supposed to be dual systems of former Comets (or better micro black holes) responsible for the so called “Coronal Cells” or “Bright spots” found at the solar surface and for solar convection. These Bright spots are supposed to represent newly formed Magnetic interference micro black holes, just like interference fireballs observed in Sprites on earth. <http://arxiv.org/pdf/1403.0692.pdf>



If dual systems of micro sunspots have a vertical orientation to the surface, it is assumed to accelerate convection and interference processes. Astroids observed in the Oort cloud, the Kuiper belt and inner astroid belt, are supposed to be the result of the expelled solar Micro black holes.

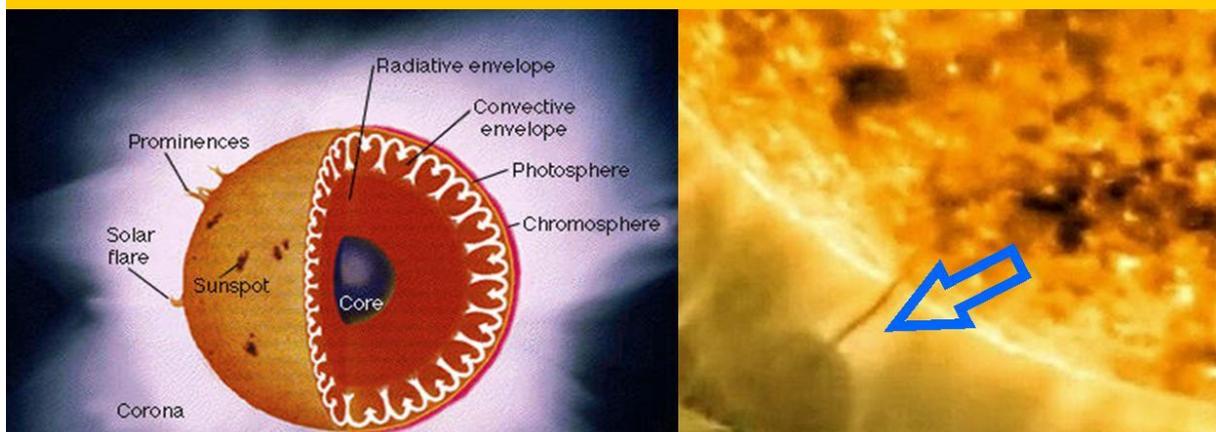


Figure: 17, (see also ref. [13]) Bright points or spots at the solar surface represent small Comets able to leave the sun by new pushing Cometary tails like Ball Lightnings do. The origin of these bright points are supposed to be so called “Interference black holes” according to Q-FFF theory.

Micro black hole based Comets produce H₂ and Water molecules building the icy Comet nucleus, spouting icy dust tails. Semi-Stationary Cometary objects (P2013 P5) should be located all over the solar system, in the Oort cloud, the Kuiper belt and inner astroid belt, according to Quantum FFF Theory.

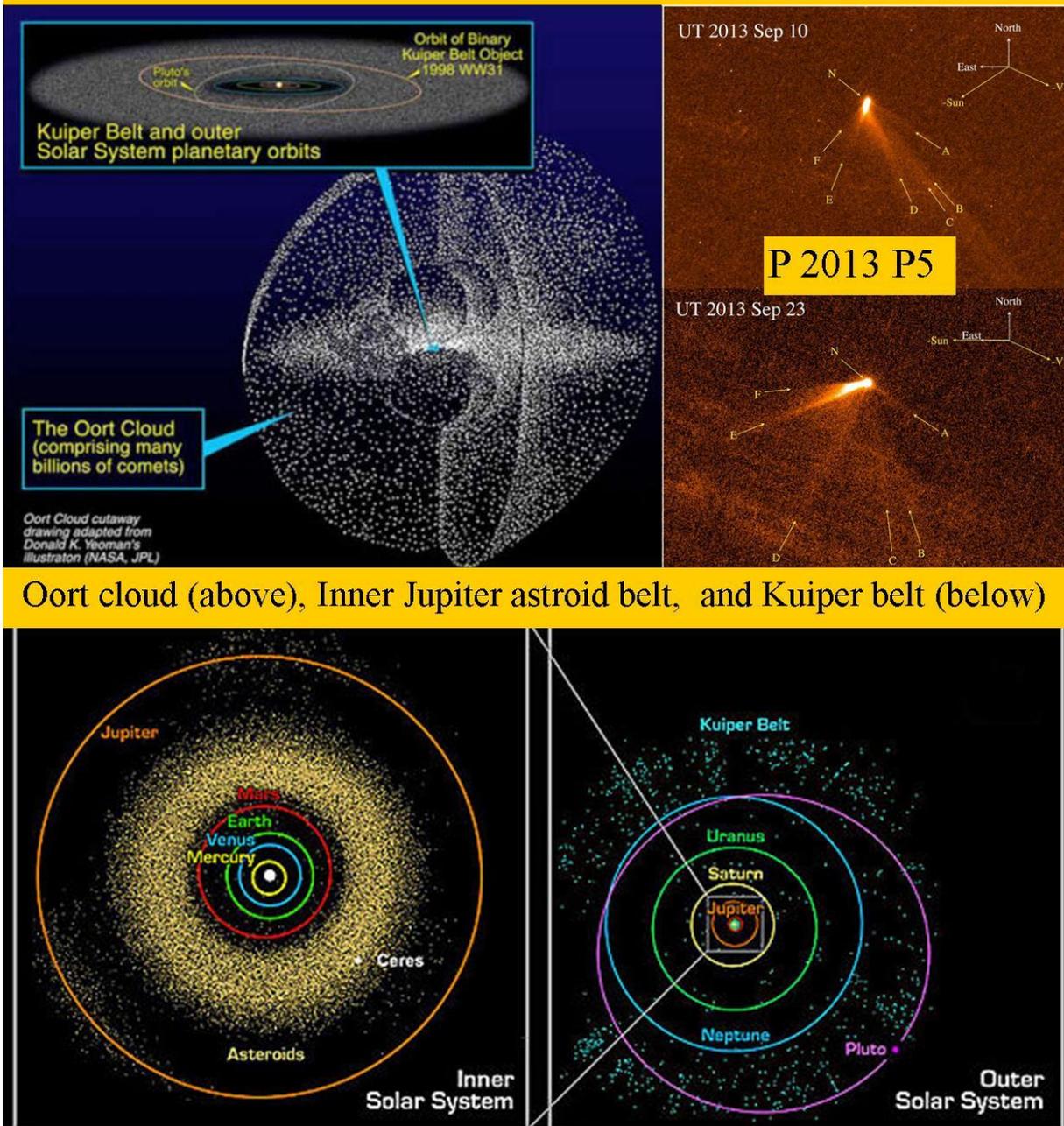
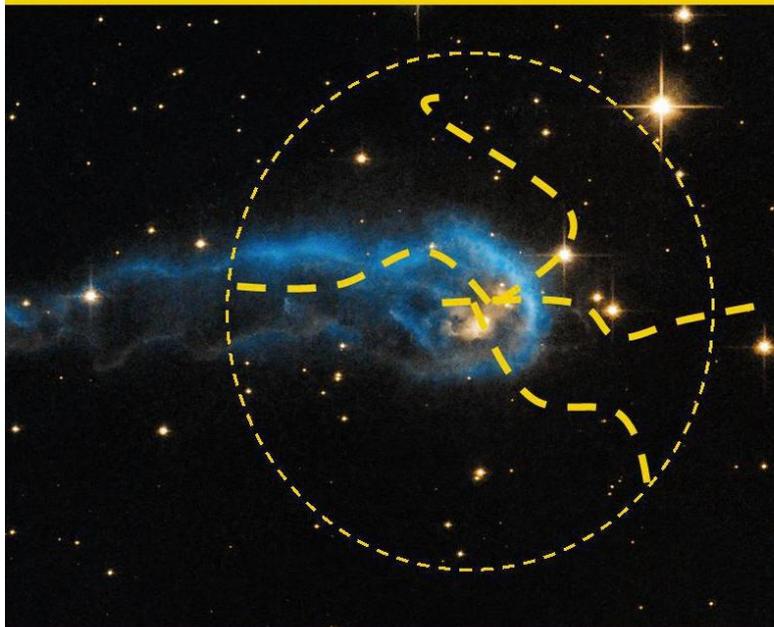


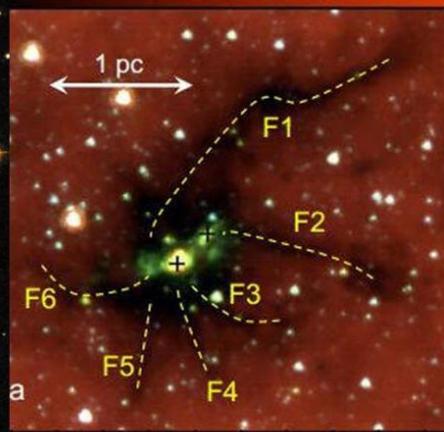
Figure: 18, The solar baby comets are supposed to travel onto the different clouds or belts like the Oort cloud and Kuiper- and Inner Jupiter belt.

The future of the Tadpole or Caterpillar Nebula according to the new paradigm Black Hole pairing and splitting /receding process of Quantum FFF Theory.

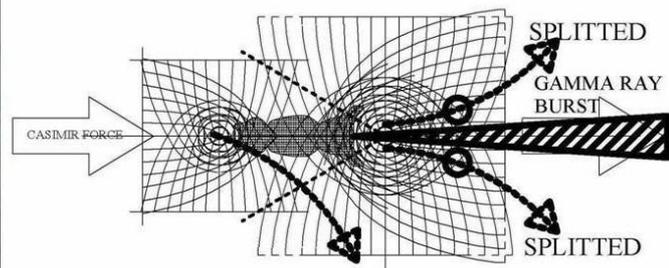
The tadpole nucleus is assumed to form a “Multiple Herbig Haro system”, (gas cloud filaments, as observed in SDC 335, 1,-6) as a start for fast massive star formation and an open star cluster.



SDC 335 with gas filaments as multiple Herbig Haro objects



The Nucleus of the Tadpole nebula seems to be a combination of different- and medium sized black holes. According to Q-FFF theory this is a base for “Black Hole Splitting” by a collision process with a so called Gamma Ray Burst as result.



The multiple nucleus of the Tadpole nebula and the Q-FFF principle of the black hole splitting process with GRB burst as a result

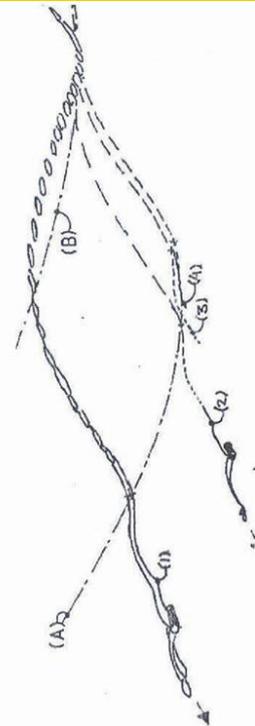
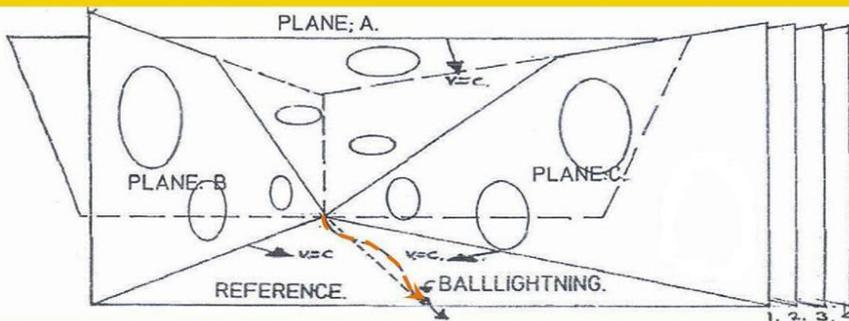
Figure: 19, A possible second origin of Gamma Ray Bursts in space is the so called Black Hole Splitting process of different sized black holes. As described in Vixra essay nr: 1304.0022. The Self Organizing Universe in the Carina Nebula.

Electric Dark Matter Black Hole Ball Lightning and icy remnants (Megacryometers)

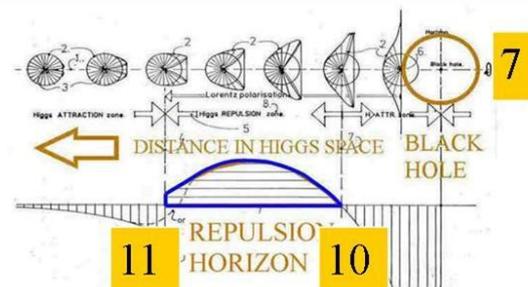
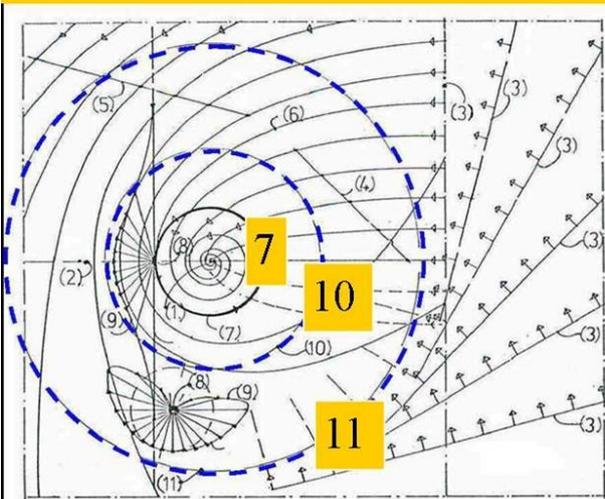
Birth of EM interference based Ball Lightning or micro Black Hole. (Quantum FFF Theory)



Birth of EM interference based Ball Lightning or micro Black Hole. (Photo: W.H. van Overhagen 11 aug 1991 during thunderstorm from roof window, the Netherlands)



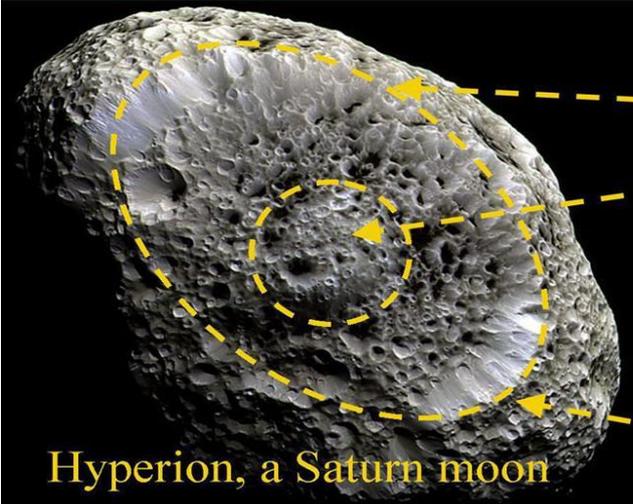
According to Quantum FFF Theory, even Nano interference Black Holes have a radial structured electric potential horizon layer (internal positive-protons and external negative electrons charged). They produce H₂ and water leading to the icy nuclei of Comets, Ball Lightning and Megacryometers. The origin: 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)

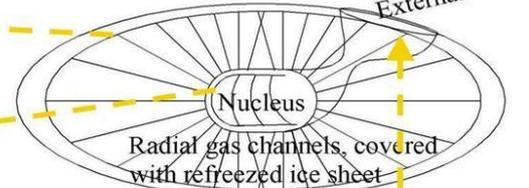
Figure: 20, Electric Black Hole based Ball Lightning

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

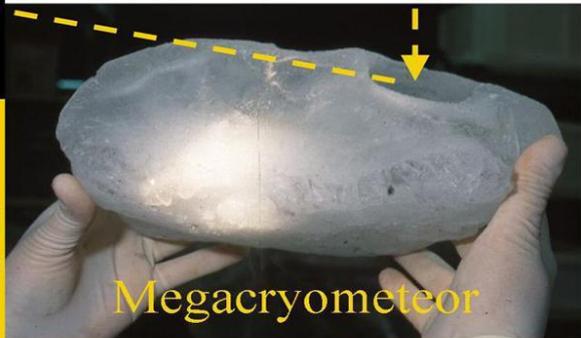


Hyperion, a Saturn moon

Cross section through a Megacryometeor or Terrestrial micro Comet nucleus.



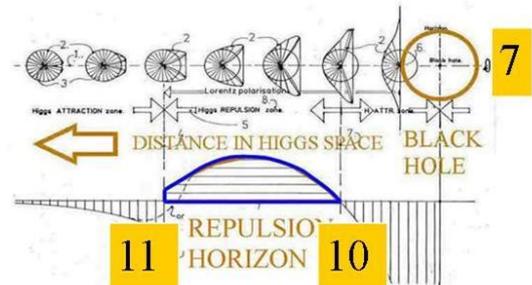
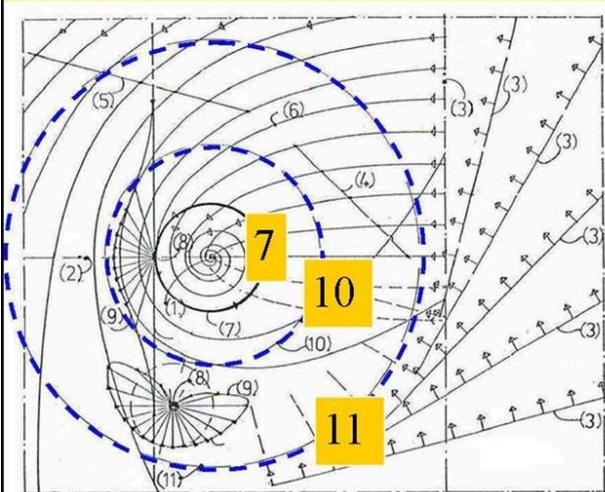
Expected ice structure of the ellipsoidal ice chunk (Megacryometeor) found by J.M.Frais (Madrid). According to Quantum FFF theory this chunk should be the Nucleus of a Terrestrial Micro Comet, produced by a new paradigm black hole, which left the nucleus through the external hole, in consonance with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



Megacryometeor

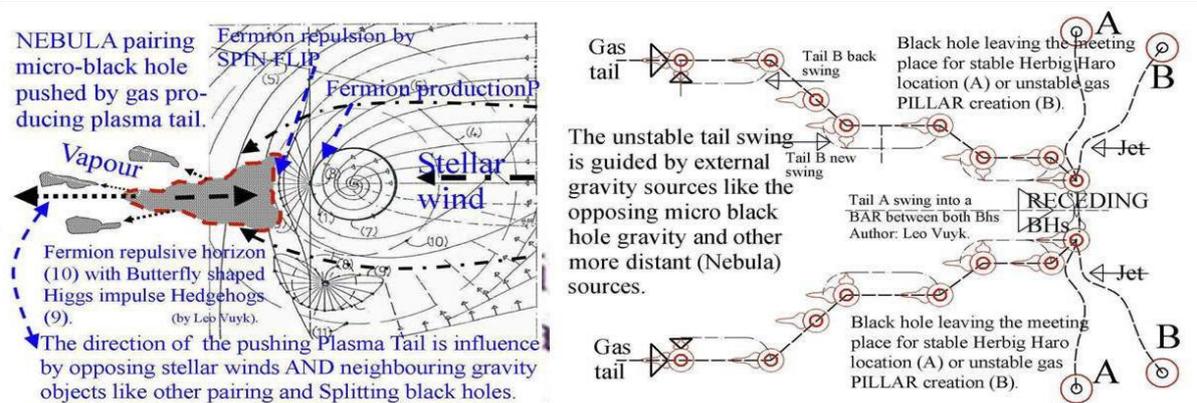
The relation between the Hyperion ice structure and the structure of a Megacryometeor as the result of Micro Black hole ice production inside both nuclei.

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 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: 21, Electric Black Hole based Comets and Micro comets.



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)

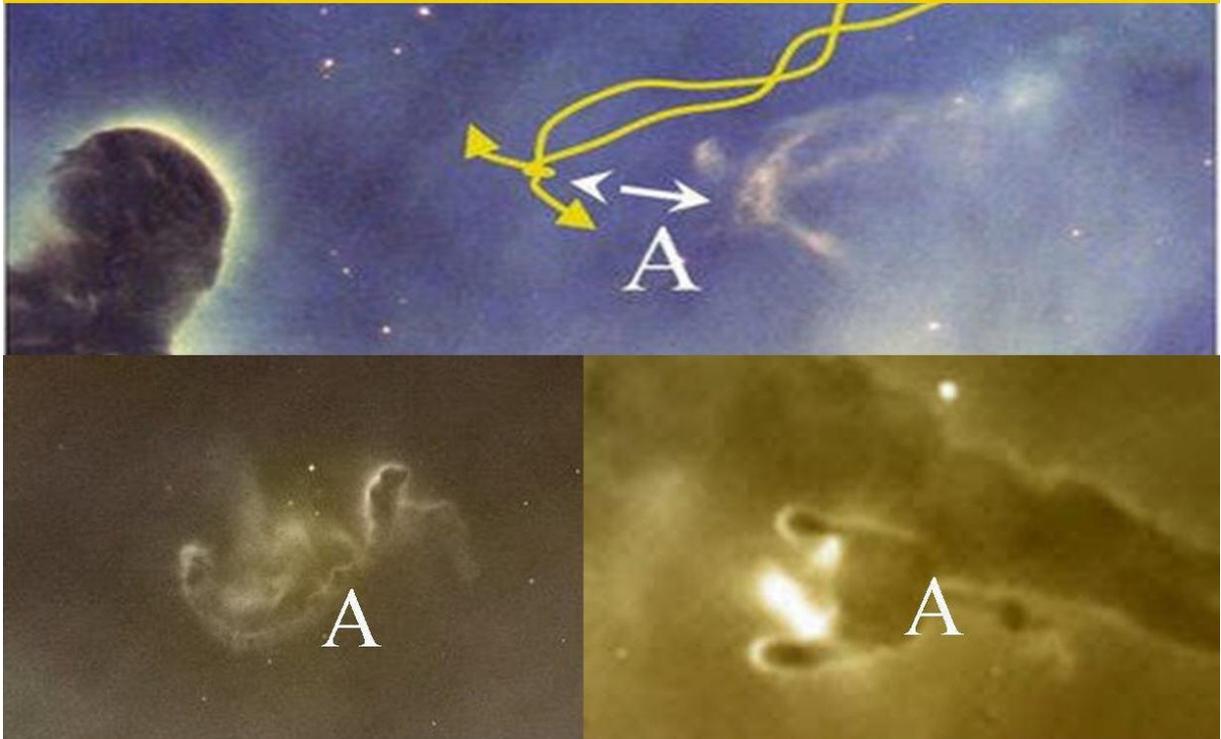


Figure: 22.

Ball lightning pushed by Plasma tail against the wind

Vapour trail washed out by the wind

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: 23.

FLAT Pillars of Creation in 3D, support the Electric Dark Matter Black Hole pairing and splitting process into Herbig Haro systems, according to Quantum FFF Theory.

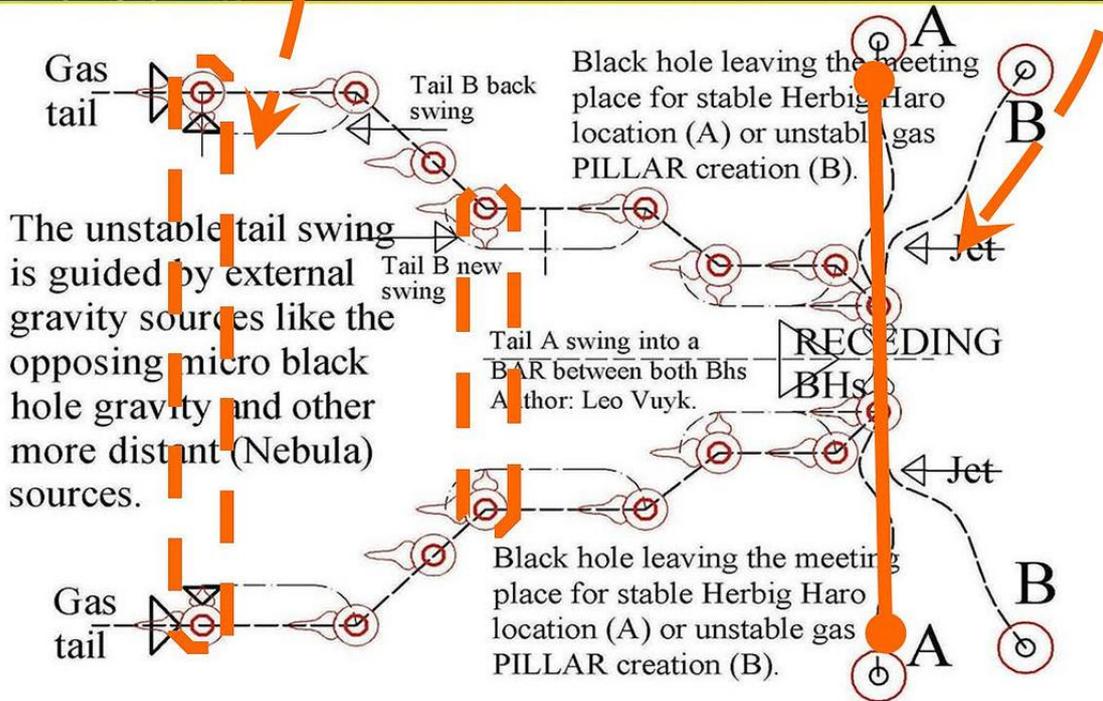
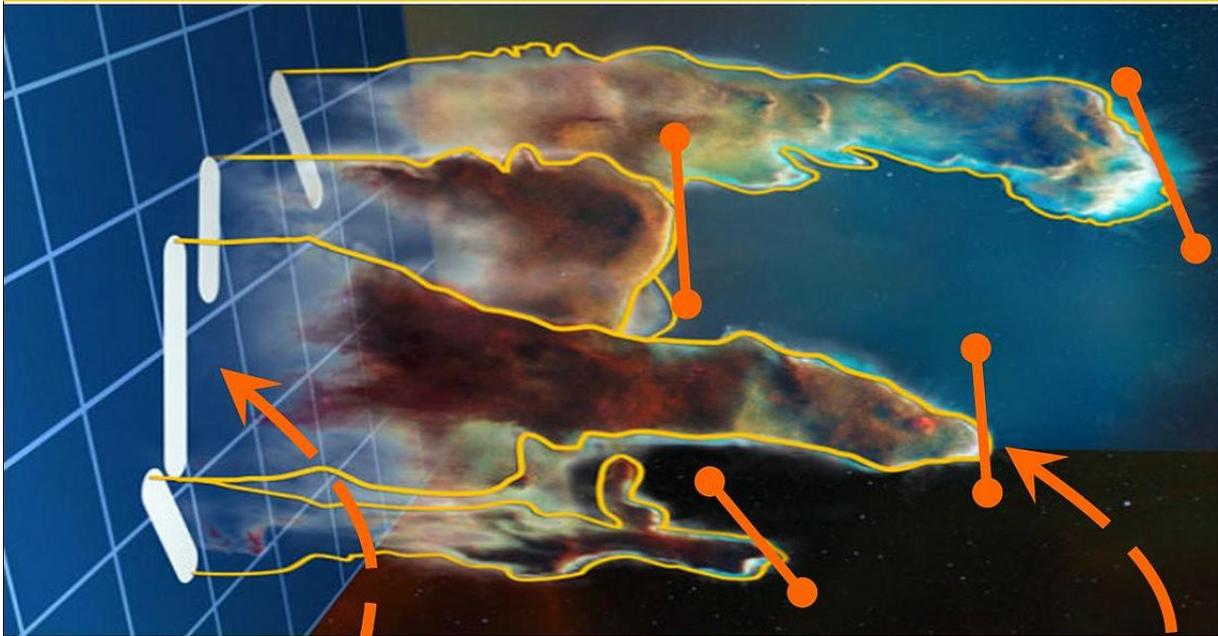


Figure: 24.

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.

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.

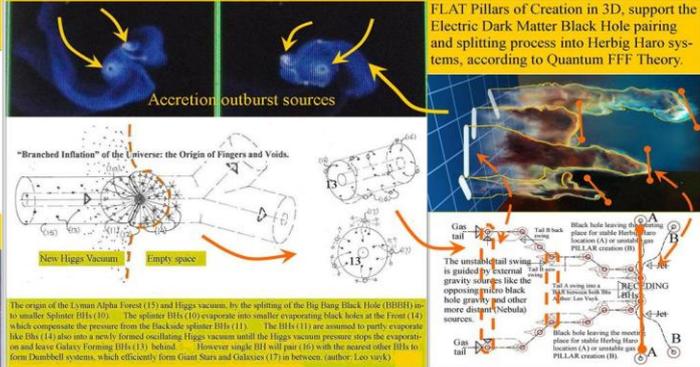
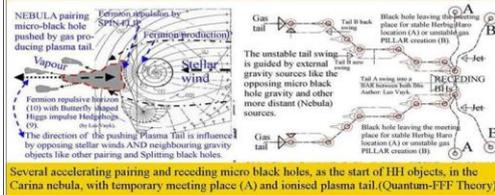


Figure: 25.

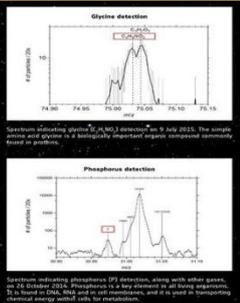
Hydrogen production of Enceladus compared.

Not only C,H,N,O,P is needed for DNA RNA molecules but also SULFUR and other elements from the earth interior, formed earlier in supernova explosions and buried inside planets.

Ingredients for life production C,H,N,O,P, by internal micro interference black holes according to QuantumFFF Theory.

Comet 67P CG

Ingredients for life production by internal micro interference black holes C,H,N,O,P



Sulfur/ Iron (for mitochondrial iron-sulfur cluster biogenesis) is in addition needed out of the belly of the earth by a boiling process done by Comet based interference Black Holes.
Conclusion: Life on earth was created inside the seas.

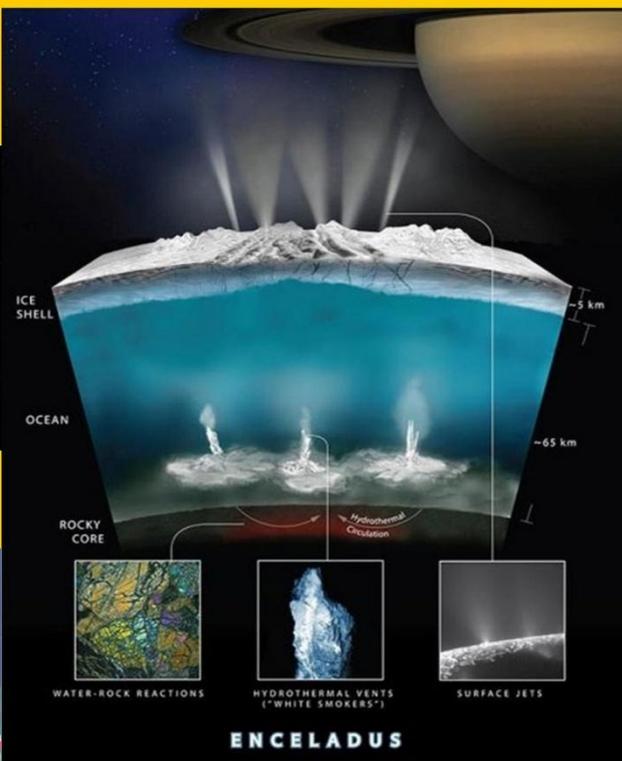


Figure: 26.

Twistor and Calabi Yau by dual Fermion Rotation

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

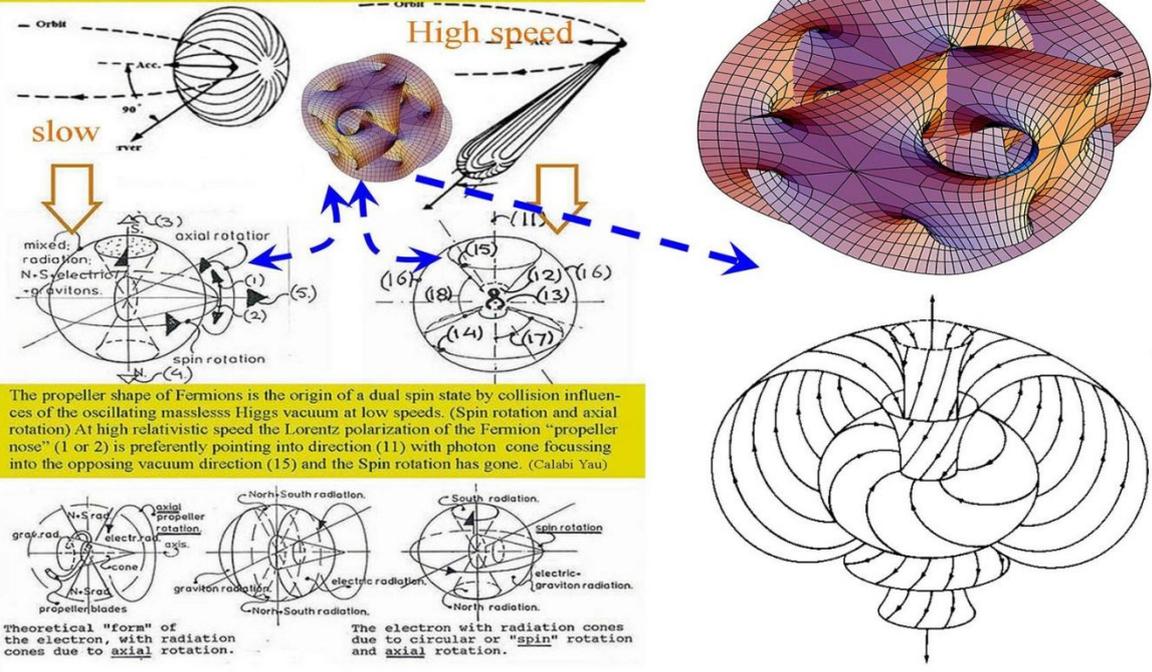


Figure: 27.

Aurora phenomenon: Micro Interference Black Holes, (Short living Quantum Knot Clouds) Plowing against the main North Pole Wind. Quantum Knots are pushed by self produced evaporating Plasma Tails and created by Birkeland current based magnetic Field interference, during Steve phenomenon. According to Quantum FFF Theory. A Violation of the Second Law ???!

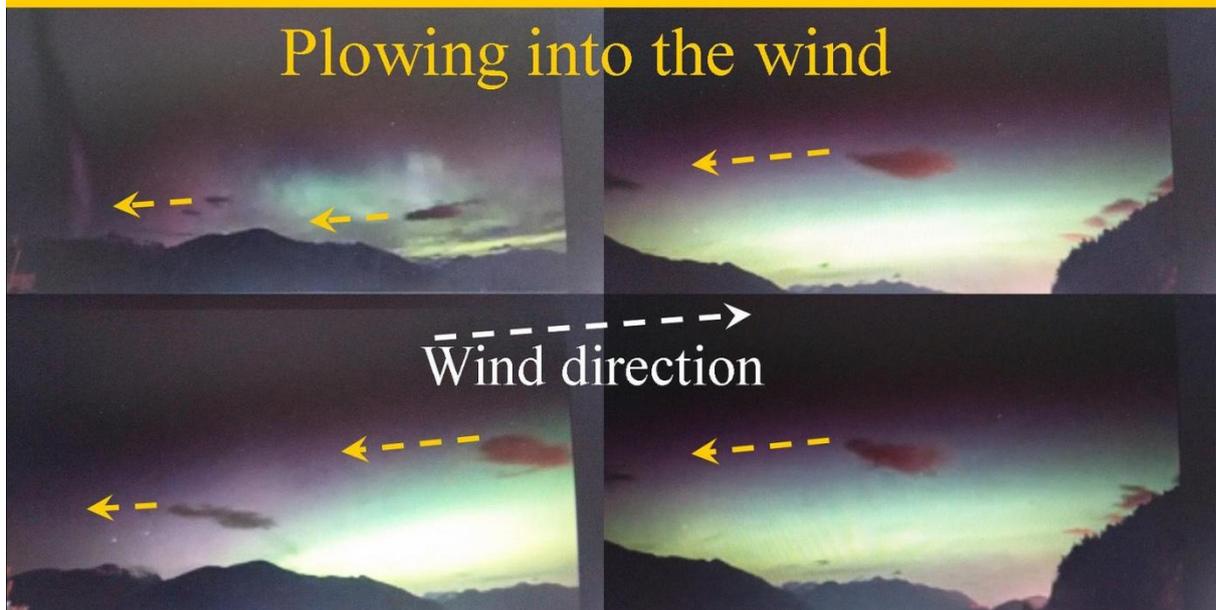
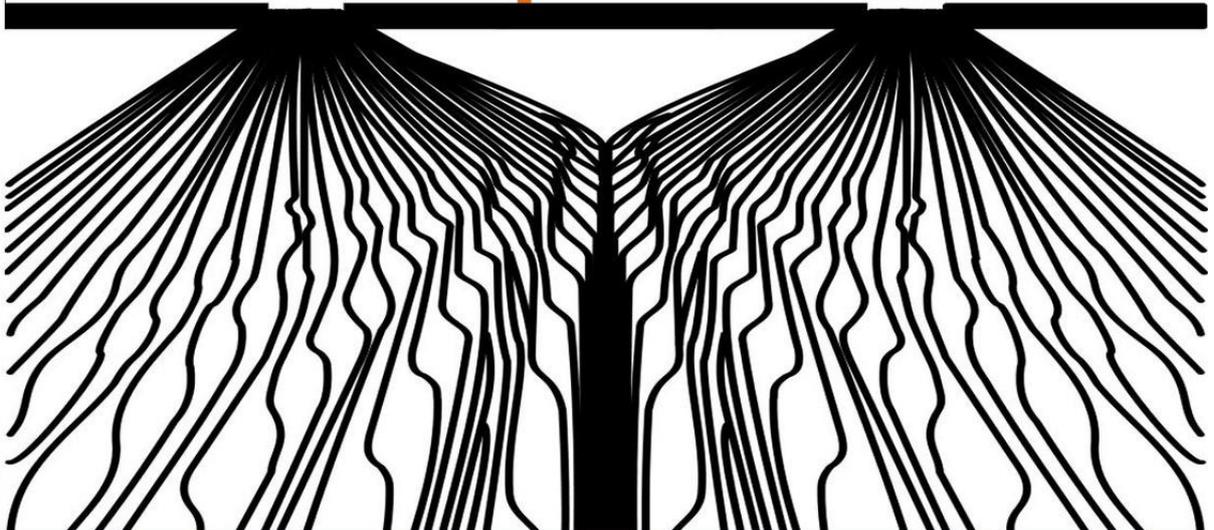
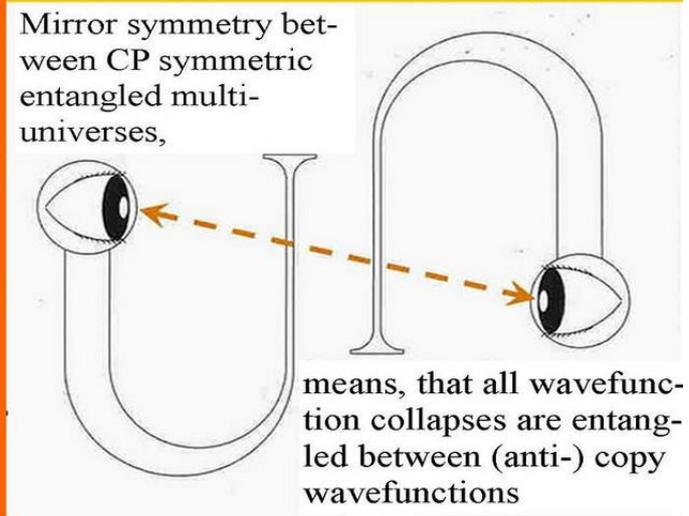
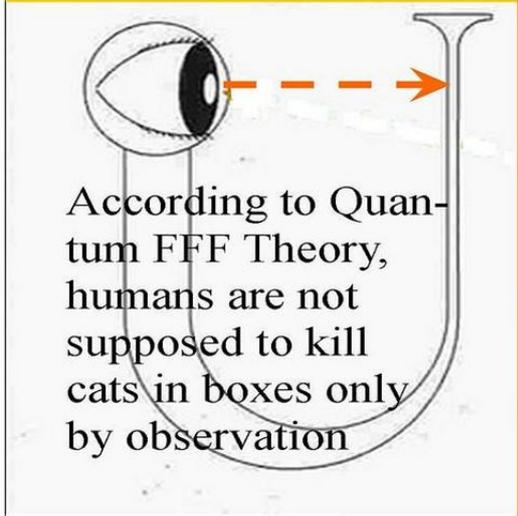


Figure: 28.

In dual entangled CP (Charge Parity) symmetric mirror universes all quanta have complementarity in the other universe. So even the left and right slit of the one photon double slit experiment.

One of the Copenhagen interpretations of human observation influencing wavefunction collapses. E.g. for human observation of dead or alive Cats in boxes.

The alternative Quantum Function Follows Form Model interpretation of (Charge Parity (CP) symmetric) instant entanglement based collapse between multiple universes. E.g. NO human influence on dead or alive cats in boxes.



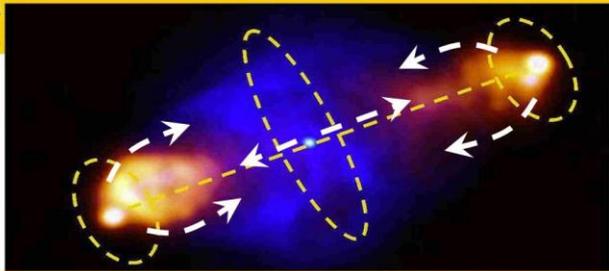
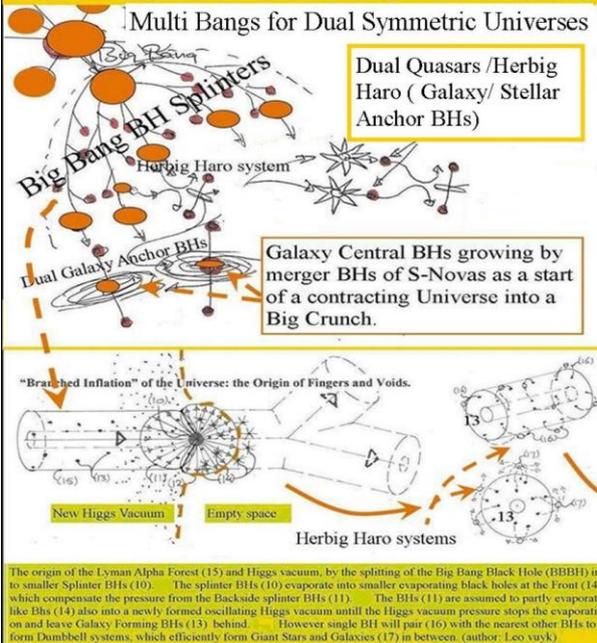
Bohmian Mechanics suggested already such a non local reality.

Figure: 29.

Quasars and Herbig Haro systems based on EDM-BHs

The Origin of energy overdensities in the CMB
The Cosmic Background (CMB) energy overdensities can be explained by a Big Bang Black Hole splitting and evaporation process, according to Quantum FFF Theory.

EDM-BHs: Electric Dark Matter -Black Hole systems seem to be active at all scales.



Cygnus A Radio Galaxy with dual gas producing Quasars (dual Hotspots) and growing black hole based galaxy in the center. NGC 1097 (below, image H. Arp) as example of a merger galaxy with multiple Quasars, left over from merger galaxy hotspots like Cygnus A.

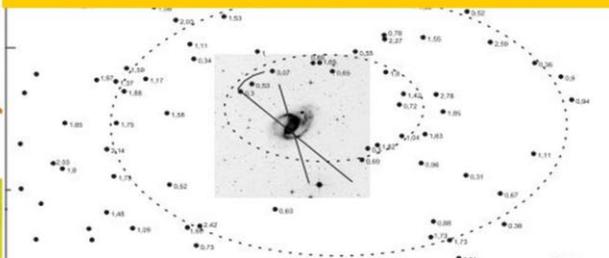


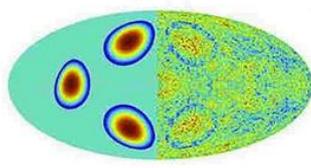
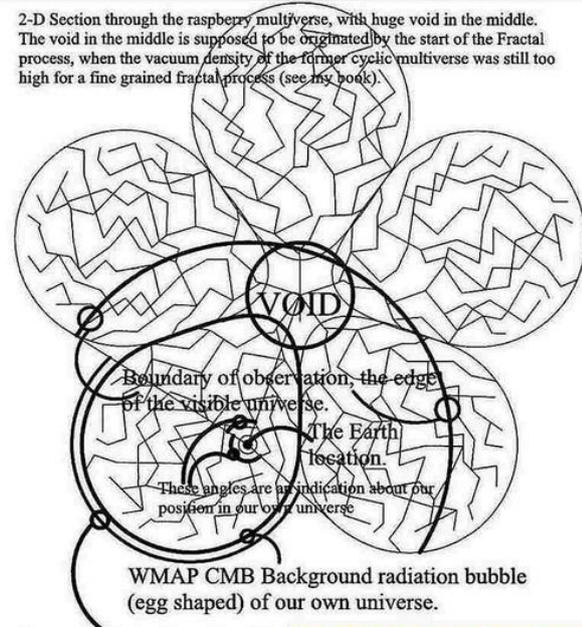
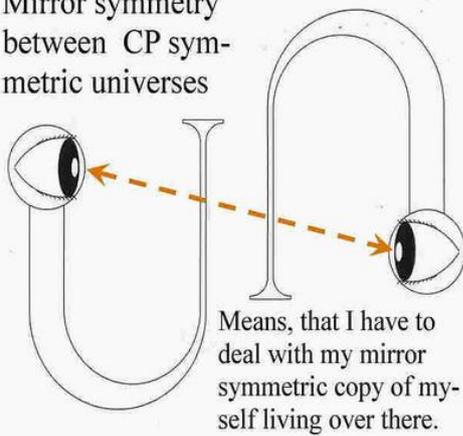
Figure: 30.

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

Mirror symmetry between CP symmetric universes



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)

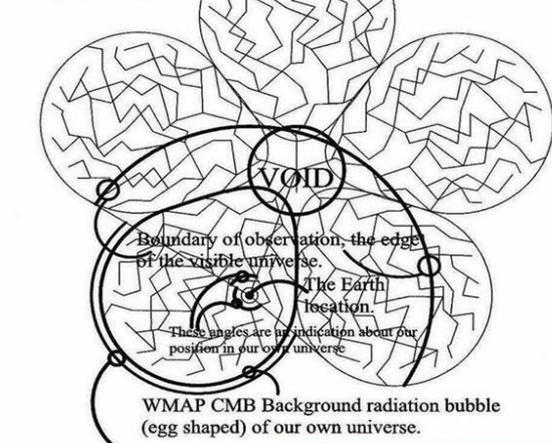
Figure: 31.

Inflation by scale invariant Black hole splitting and pairing into Herbig Haro systems.

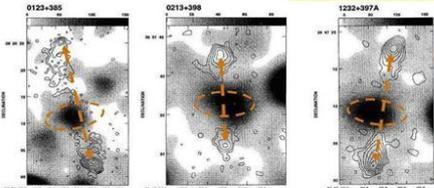
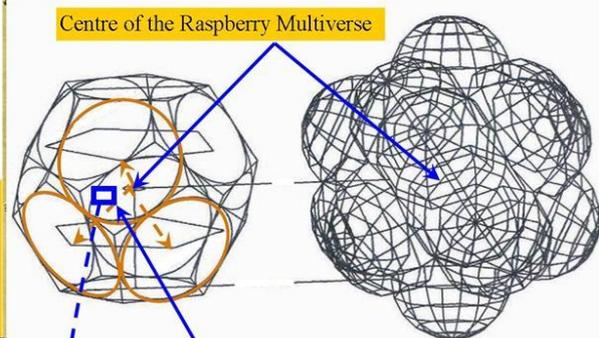
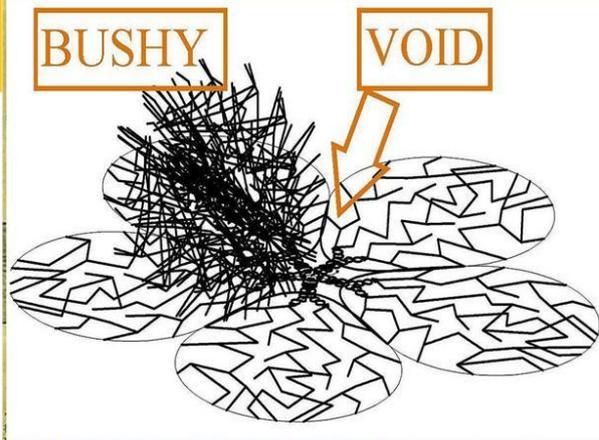
Inflation by scale invariant Black hole splitting and pairing into Herbig Haro systems.

According to Quantum FFF Theory, the CPT symmetric Raspberry Multiverse is the result of a fractal shaped splitting and evaporating dark matter black hole process of the original Big Crunch black hole. A 2-D projection of a cone shaped Multiverse section is shown.

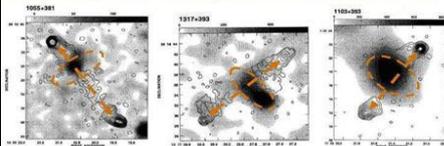
2-D Section through the raspberry multiverse, with huge void in the middle. The void in the middle is supposed to be originated by the start of the Fractal process, when the vacuum density of the former cyclic multiverse was still too high for a fine grained fractal process (see my book).



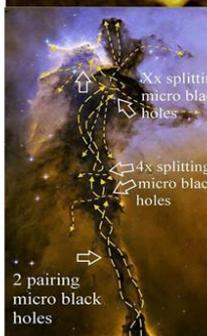
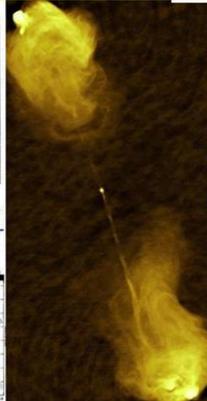
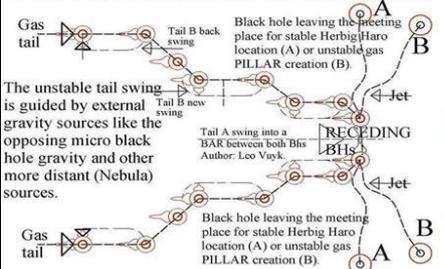
The Dodecahedron Raspberry Multiverse with a 5-fold neighbour Low Variance contact structure lead to a Golden Ratio (Phi) in every single universe according to Quantum FFF Theory (Function Follows Form)



All images are copies from: The Astronomical Journal Vol 109 nr 2 Febr. 1995. the article is called: Faint B3 Radio Galaxies: Luminosity versus evolution effects, authors: F.N.Owen ad W.C. Keel.



TWO pairing and receding micro black holes, propelled by unstable ionised gas tails, as observed in many Nebula: Carina, Eagle, Crab etc. creating HH objects or Gas Pillars.



FLAT Pillars of Creation in 3D, support the Electric Dark Matter Black Hole pairing and splitting process into Herbig Haro systems, according to Quantum FFF Theory.

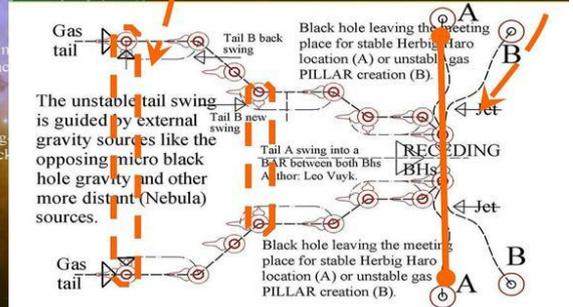
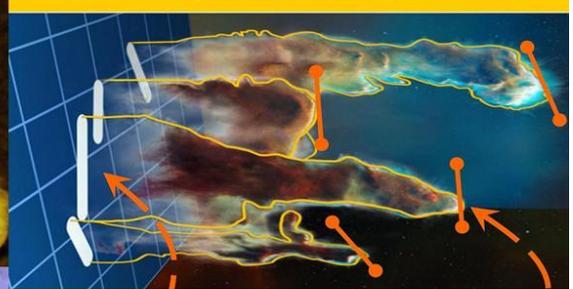
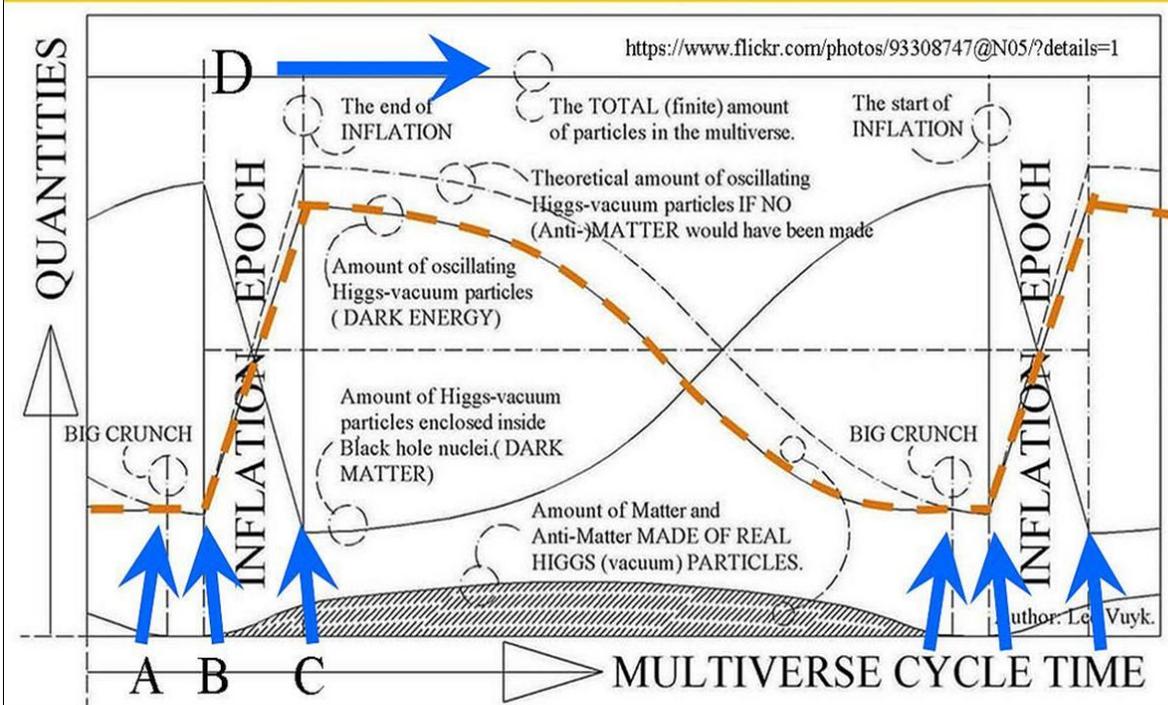


Figure: 32.

The Beginning and End of Time.

Multiverse cycle time versus quantities of mass carrying particles, Dark Matter Black Hole particles and Dark Energy Oscillating Vacuum Lattice (Axion Higgs field) particles. All particles and fields are assumed to be based on rigid string particles. Negative and Positive charged Fermions should have propeller shapes with opposite pitch.



A: The end of matter based time. (Big Crunch) All rigid string matter is through merger Super Nova black holes concentrated into one BH nucleus, which is compressed by the remaining-but absorbing- deluting-dark energy vacuum. If the deluted vacuum pressure comes into equilibrium with the total internal string tension of the nucleus, the Big Bang BH splits symmetrical into 8 or 12 entangled BH nuclei.

B: The beginning of matter based time and the splitting of the Big Bang Black Hole string nucleus into series of minor secondary primordial BHs, building the fractal shaped Lyman Alpha Forest and the start of dual pairing BHs into primordial Herbig Haro systems with vast galaxy formation in between.

All New physics BHs (even micro interference BHs) are postulated to create not only pair production at the horizon, but even entire protons. (plasma)

C: The end of primary Big Bang black hole splitting and the end of vacuum expansion (vacuum inflation)

D: The Total number of particles during the cycle process is constant.

According to the Quantum Function Follows Form model.

Figure: 33.

Splitting String Black Hole Inflation/Vacuum evaporation

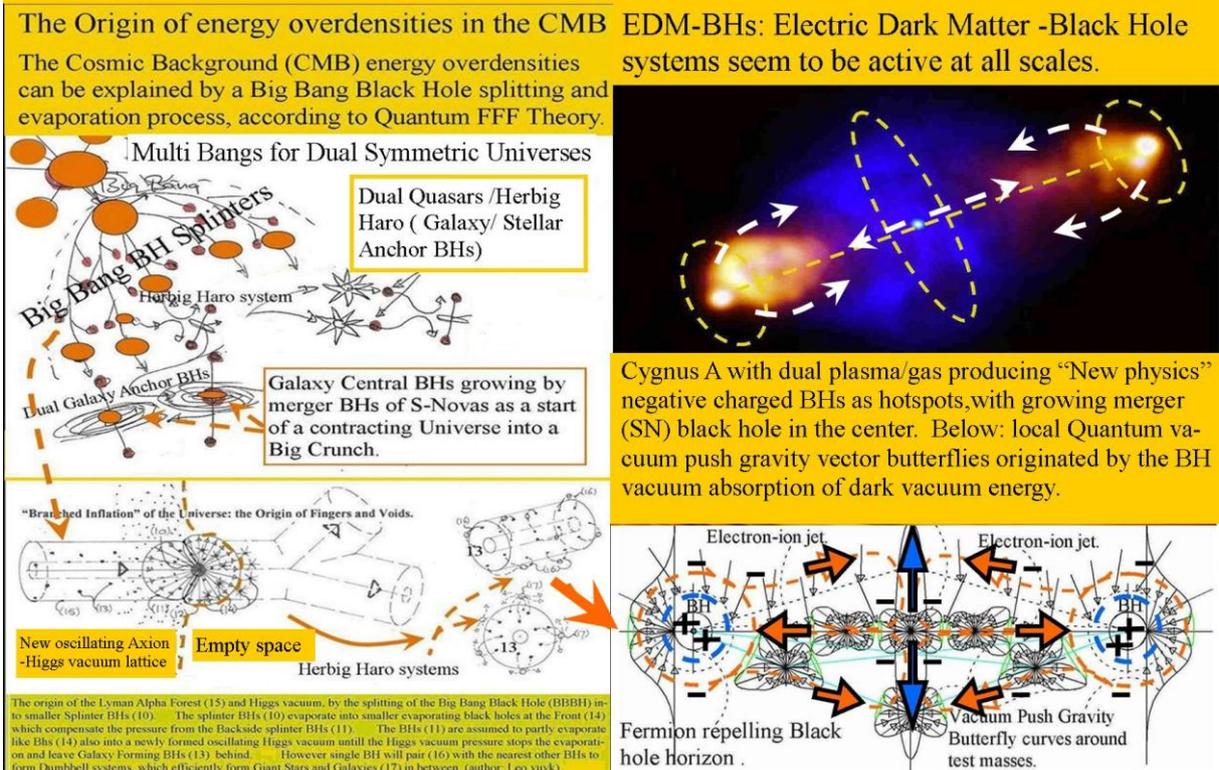


Figure: 34.

References:

[1] [viXra:1103.0068](#) submitted on 16 Mar 2011

Function Follows Form, at the Quantum Scale and Beyond.

Authors: Leo Vuyk.

[2] [viXra:1103.0024](#) submitted on 9 Mar 2011

Quantum Gravity and Electro Magnetic Forces in FFF-Theory.

Authors: Leo Vuyk.

Category: [Quantum Gravity and String Theory](#)

[3] [viXra:1103.0015](#) submitted on 5 Mar 2011

Wavefunction Collapse and Human Choice-Making Inside an Entangled Mirror Symmetrical Multiverse.

Authors: Leo Vuyk.

Category: [High Energy Particle Physics](#)

[4] [viXra:1103.0011](#) submitted on 3 Mar 2011

An Alternative Black Hole, Provided with Entropy Decrease and Plasma Creation.

Authors: Leo Vuyk

Category: [High Energy Particle Physics](#)

[5] [viXra:1103.0002](#) submitted on 1 Mar 2011

3-Dimensional String Based Alternative Particle Model.

Authors: Leo Vuyk.

Category: [High Energy Particle Physics](#)

[6] [viXra:1102.0052](#) 27 Feb 2011

Construction Principles for Chiral "atoms of Spacetime Geometry".

Authors: Leo Vuyk

Category: [Quantum Physics](#)

[7] [viXra:1102.0054](#) 27 Feb 2011

Atomic Nuclear Geometry Based on Magic Number Logic.

Authors: Leo Vuyk.

Category: [Nuclear and Atomic Physics](#)

[8] [viXra:1102.0056](#) 28 Feb 2011

Experiments to Determine the Mass Related Lightspeed Extinction Volume Around the Earth and Around Spinning Objects in the Lab.

Authors: Leo Vuyk.

Category: Relativity and Cosmology

[9] **The New God Particle and Free Will.**

Author: Leo Vuyk, LuLu publishers, 2008. ISBN number: 978-1-4092-1031-3

[10] [viXra:1104.0002](#) 1 Apr 2011,

Stellar Anchor Black Holes as the Remnants of Former Herbig Haro Objects.

Author: Leo Vuyk

Category: Astrophysics

[11] U.S. Inan, S.C. Reising, G.J. Fishman, and J.M. Horack. **On the association of terrestrial gamma-ray bursts with lightning and implications for sprites.** *Geophysical Research Letters*, 23(9):1017-20, May 1996. As quoted by

<http://elf.gi.alaska.edu/spr20010406.html#InanUS:theatg> Retrieved 2007-03-06.

[12] **Scientists close in on source of X-rays in lightning,**

Physorg.com, July 15, 2008. Retrieved July 2008.

<http://www.physorg.com/news135351802.html>

[13] **"Bright points in sun's atmosphere mark patterns deep in its interior"**

<http://www.sciencedaily.com/releases/2014/04/140417191744.htm>

also: "Identifying Potential Markers of the Sun's Giant Convective Scale". Scott W. McIntosh, et al.

<http://arxiv.org/abs/1403.0692>