

Electric Birkeland Current Production Between Two Herbig Haro Black Holes or even Stable Ball Lightnings on Earth..

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Abstract,

In Quantum FFF Theory. (Function Follows Form) The Form and Microstructure of elementary particles also presented as “Rigid Transformer Strings” (RTS) is supposed to be the origin of functional differences between Axion-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 electric charge differences around the BH horizon, seems to be able to explain quick Galaxy- and Star formation between Herbig Haro Hotspots (new physics black holes), including hotspots like Sunspots, Comets and even Ball Lightning.

Based on cosmological observations of nebula and Bok globules, it is assumed that the propeller form of Fermions is the origin of repulsion of all fermions at the black hole horizon, with negative charged fermions at the outside and positive fermions at the inside of the horizon.

As a result we may assume that black holes of all sizes, from ball lightning, Herbig Haro bowshocks are proliferating the universe concentrated around galaxies (and clusters) up to the big bang.

As a consequence, even the sun should have two distant new physics black holes as the origin of our local Birkeland current, which seems to be observed already by....

If we are able to stabilize and harness two ball lightnings, there will start to flow a constant electric current just as is observed in Herbig Haro systems like Cygnus A and even around the solar system called Birkeland current.

introduction.

According to Quantum FFF theory, there is cosmological evidence for a new black hole paradigm. In contrast with all known black hole models, it says that black holes will attract and rip apart all matter into plasma and Fermions that come too close, however BHs do repel all fermions and accelerate all Fermions into at least two plasma jets.

Q-FFF theory also states, that the vacuum is seeded with fast oscillating massless Axion-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.

As a consequence there is 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.

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. 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.

The accelerating plasma tail of new paradigm black holes and the splitting black holes by pairing black holes is supposed to be the origin of a smooth proliferation of black holes in the universe.

The Spire /Eagle Nebula, (figure: 1) seems to be a good example of a smooth proliferation of black holes through Galaxies and Nebula.

If we are able to stabilize and harness two ball lightnings, there will start to flow a constant electric current just as is observed in Herbig Haro systems like Cygnus A HH 34 (fig12) and even around the solar system called Birkeland current (Fig. 2)

QUANTUM FFF THEORY.

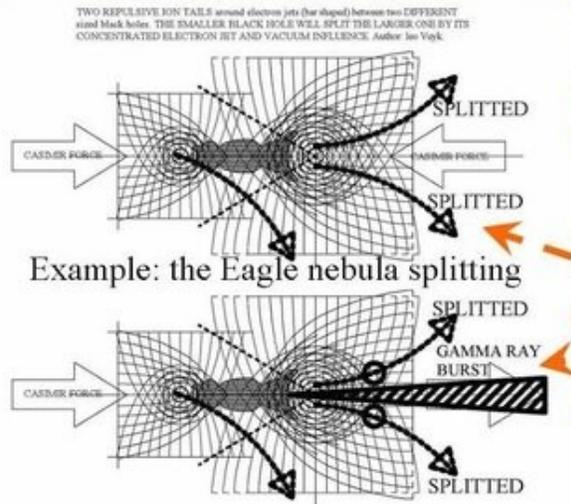
According to Quantum FFF Theory, (Function Follows Form) the FORM and microstructure of elementary particles, is supposed to be the origin of FUNCTIONAL differences between HiggsGraviton- Photon- and Fermion particles. As a result, a NEW paradigm of splitting-, accelerating- and pairing Black Hole seems to be able to accelerate itself by a -Zero Point Energy driven-self created plasma tails (by a new Quantum Fluctuation process), to form dumbbell systems, of two or even more black holes. Inside Nebula these dumbbell systems are called Herbig Haro systems. I think that Stephen Hawking did not calculate with the possibility of a chiral oscillating Higgs field vacuum lattice combined with propeller shaped Fermions.

Then, due to Vacuum Chirality, Electron- and Positron propellers could both pushed away from the BH horizon after spin flip polarization at different distances, forming two charged separated spheres. With quark (plasma) formation in between. Based on such a simple object (propeller and process) oriented ontology, Black Holes could be imagined as charge splitters violating the 2e law of thermodynamics, combined with a continuous microscopic big bang plasma creation process!

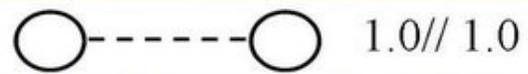
LIGO based Black Hole ratios and the ability to merge or split into two equal BH parts, able to create Herbig Haro systems and Gamma Ray Bursts. Such splitting systems are observed in the so called Spire part of the Eagle nebula.

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

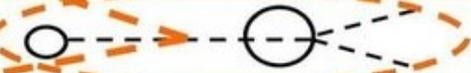
Dual black hole merger nominal mass contents observed by LIGO in 2015 and 2016 resp. 29/36x and 7.5/14.2x sun masses. see: Quantum FFF Theory. The related ratios are: 1/1.24 resp. 1/1.9.



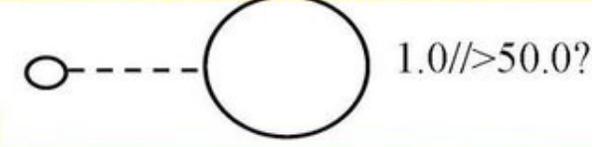
2 LIGO ratios: 29-36/7,5-14.2sun= 1.0/1.24/1.9



Herbig Haro creation ratio: 1x



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

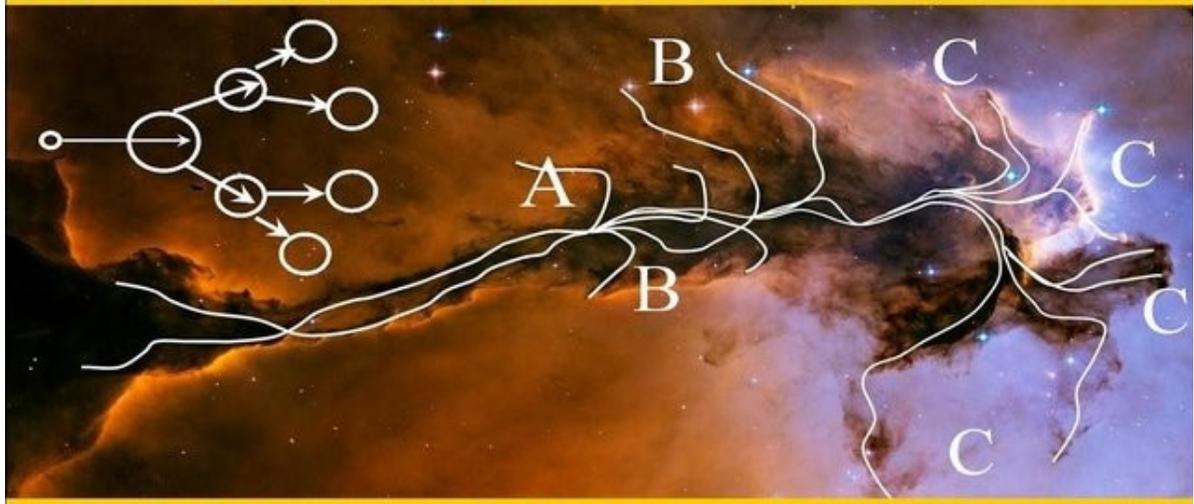


Small black holes should split larger BHs into two equal parts to create dual Herbig Haro hotspots also called bowshocks or accretion outburst sources.

Galaxy central BH merger: 1.0 //>50.0?

Black hole splitting in the Spire Eagle nebula

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



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

Figure 1.

The result:

- 1: Black holes are the same as Dark Matter, they all consume photons, even gravitons and the Higgs field, but REPEL Fermions due to their propeller shape. They produce electric charged plasma.
- 2: Dark Energy is the oscillating (Casimir) energy of the Higgs Field equipped with a tetrahedron lattice structure with variable Planck length..
- 3: Quantum Gravity = Dual Push gravity= Attraction (Higgs-Casimir opposing Graviton push).
- 4: The Big Bang is a Splitting dark matter Big Bang Black Hole (BBBH), splitting into smaller Primordial Big Bang Spinters (PBBS) forming the Fractal Lyman Alpha forest and evaporating partly into a zero mass energetic oscillating Higgs particle based Higgs field.
- 5: Dual 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 Higgs particles are convertible into symmetric electron and positron (or even dual quark-) propellers (by BH horizon fluctuations).
- 9: The chirality of the (spiraling) vacuum lattice is the origin our material universe. (propeller shaped positrons merge preferentially first with gluons to form (u) Quarks to form Hydrogen.
- 10: The first Supernovas produce medium sized Black Holes as the base for secondary Herbig Haro systems and open star clusters.
- 11: ALL Dark Matter Black Holes are supposed to be charge separators with internal positive charge and an external globular shell of negative charged Quark electron plasma.
- 12: The lightspeed is related to gravity fields like the earth with long extinction distances to adapt with the solar gravity field.
13. Quantum FFF Theory states that the raspberry shaped multiverse is symmetric and instant entangled down to the smallest quantum level. Also down to living and 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 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.

19, 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 can be compound particles.

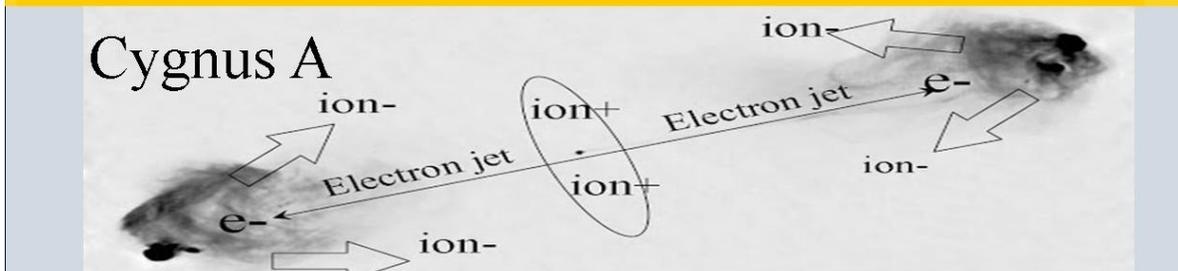
21 All particles are assumed to be present as Higgs particles already in the cyclic Big Bang Black Hole (BBBH) after the former multiverse has collapsed into a Big Crunch Black Hole.

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 materialmultiverse neighbour universe the DNA helix should have a left handed spiral.

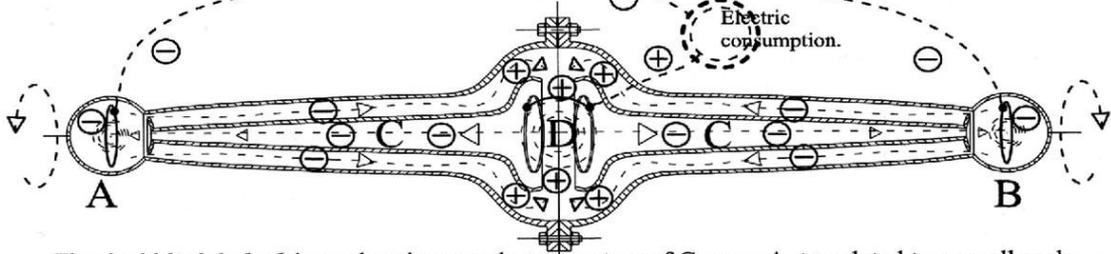
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As John G Cramer wrote: a “Hamdshake”entanglement also called “Transactional Interpretation”

Future Free Energy Power from space (Cygnus A) on earth by harnessed dual micro Herbig Haro black holes (Quantum FFF Theory)



A copy of the Cygnus A electric power system, as a source of free energy. Sectional view.



The dual black hole driven electric powerhouse system of Cygnus A, translated to a small scale micro black hole "ball lightning" solution. Artificial produced ball lightnings are located at A+B.

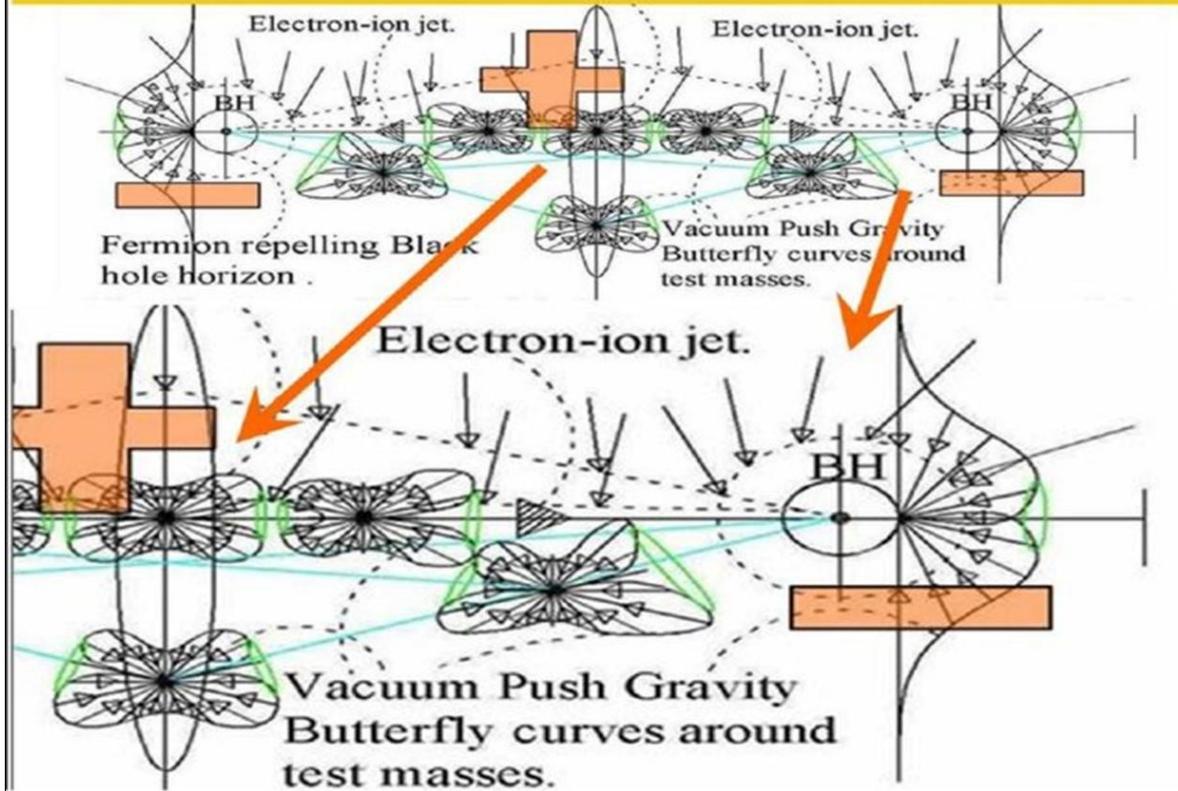
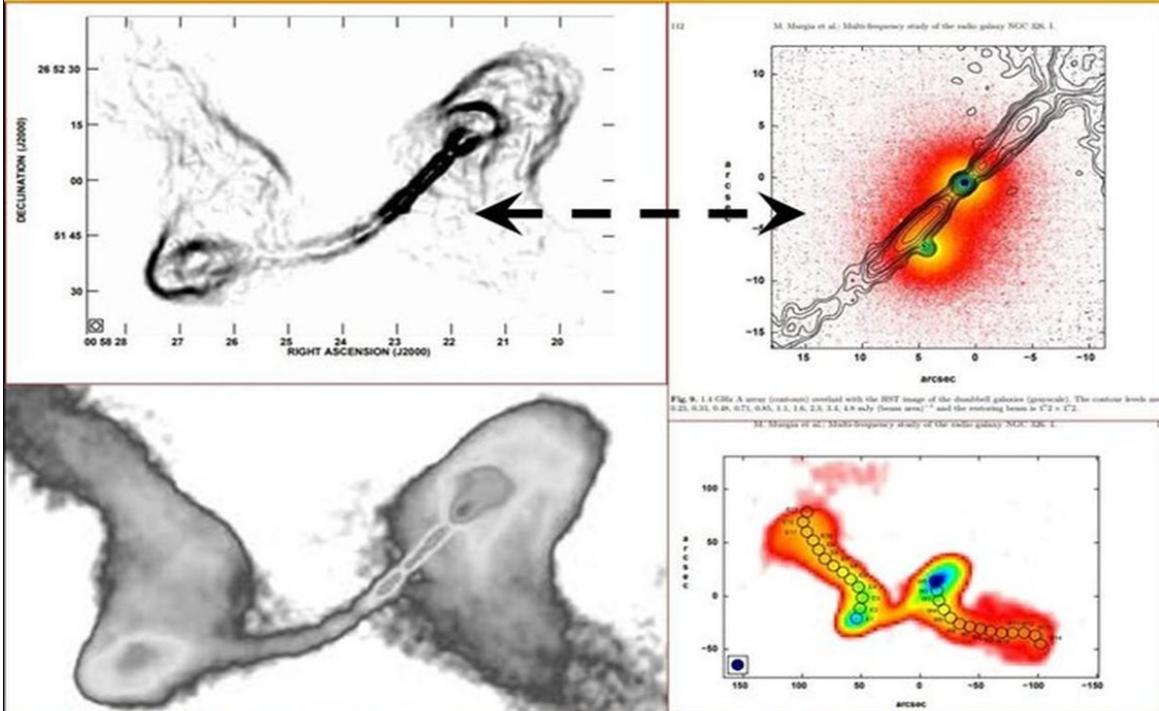


Figure2.

The Key Observation of new Physics Fermion Repelling Dark Matter Black Holes for Universal structure.

Example of NGC 326: The Repelling of Two Equal sized Black Holes as the formation of a Herbig Haro Bowshock system, with star formation between and double jets. According to Quantum FFF Theory.



@ images: A multi-frequency study of the radio galaxy NGC 326 by M.Murgia et.al. (CNR Bologna.it.) <https://www.aanda.org/articles/aa/pdf/2001/46/aah3092.pdf>

Evidence for a Fermion Repelling New Physics Black Hole inside Herbig Haro (HH34) Bowshock ! Outflow Velocity differences between the leading black hole and the secondary Fermion plasma hotspots are the indication, according to Q-FFF Theory.

The black hole (O) has the smallest relative velocity. Conclusion: Secondary Fermionic plasma hotspots are repelled ! As predicted!

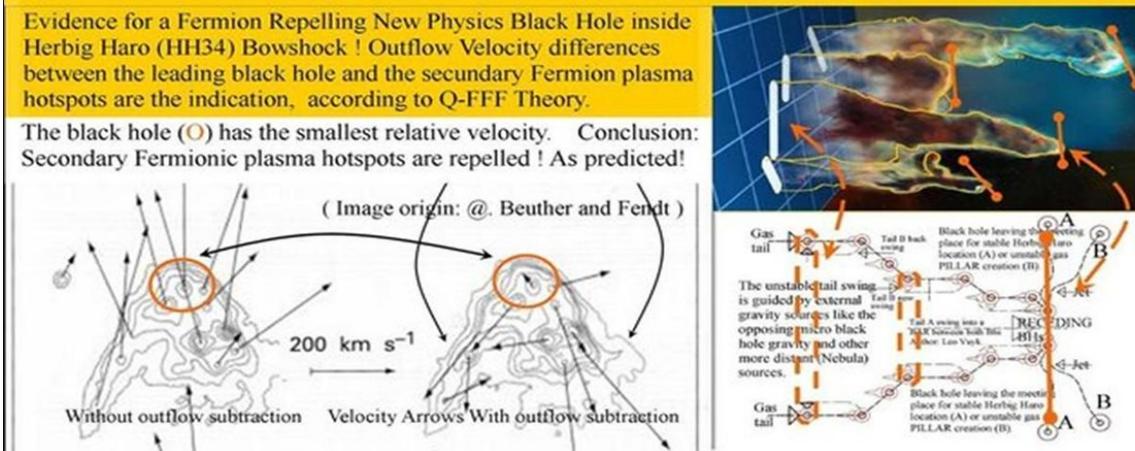


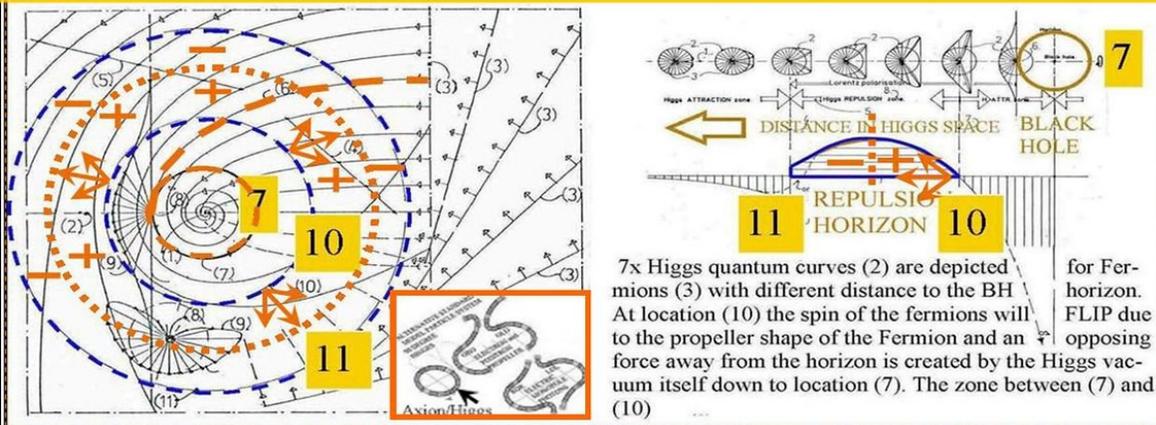
Figure 3.

Electricity out of two Black Holes

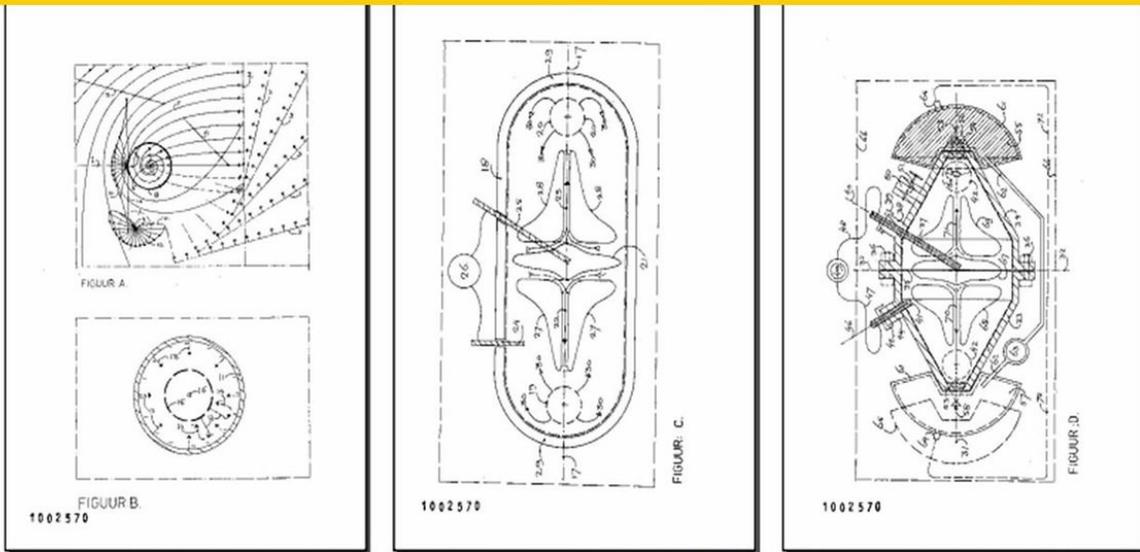
Fermion Propeller String Theory, as a solution for the Black Hole Information Paradox, according to Quantum FFF Theory.

The BH information paradox solution involves, that NO Fermions will ever surpass the postulated Fermion Repulsion Horizon. The Fermion propeller shape is assumed to be the origin that it will be polarizing its "propeller nose" into the direction of incoming Vacuum string particles. As a reaction it will be pushed outside the dual electric horizon into 2x charged Fermion layers, by the butterfly shaped vacuum vector space concentration.

Both layers will form a Plasma disc which is accelerated into two opposing jets.



Patent mosaic of a Macroscopic Casimir Cavity system between two singularities used for electric supply and inertial acceleration "Practical containment, development and exploitation of energy contained in ball lightning discharges or black holes". NL1002570(C1)1997-09-12. (Espacenet epo Patent: Leendert Vuyk)



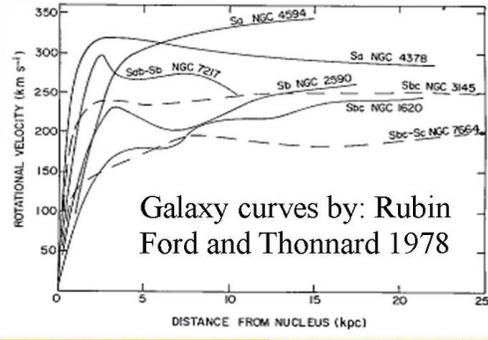
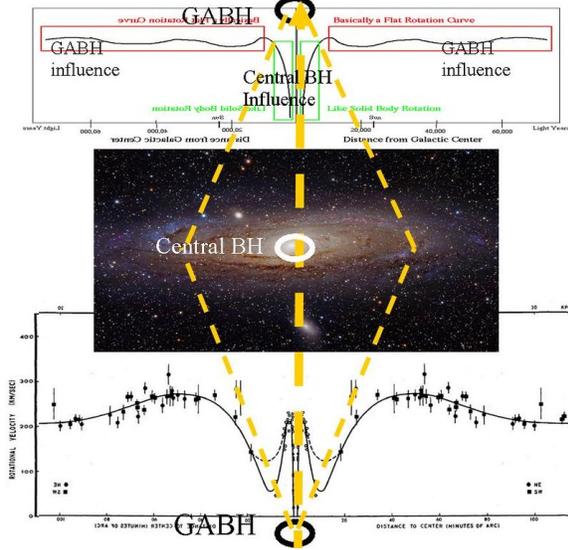
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Figure 4.

Variable Galaxy Rotation Curves explained by Multiple 1e and 2e Stage GABH Distribution After merging with Smaller Galaxies.

M31 Complex Galaxy Rotation Curves explained by Triple-Black Hole Vacuum Dipole Repeller Gravity.

Dual GABHs with equal mass and One Central BH with unequal masses seem to be responsible for the complex Galaxy Rotation Curves. The GABH and Central BH mass ratios, seem to explain the rotation curve variability of galaxies observed through the universe. (see also Dipole repeller gravity of Quantum FFF Theory.)



Galaxy curves by: Rubin Ford and Thonnard 1978

Four main Dark Matter Black Hole families. Primary: Secondary Galaxy Anchor BlackHoles (GABHs), (Globular Dwarfs) Central BH and Stellar/Dwarf Anchor Black Holes, (SABHs), According to Quantum FFF Theory

1e GABH
2e GABHs: By Galaxy-Merging processes
Central BH
SABHs by Super nova black holes

According to Quantum FFF Theory, Black holes create Protonic Electric plasma in the Cosmos repeating below. As consequence Black holes in systems like Herbig Haro objects are equipped with dual EDM jets, supported by more shaped Cosmos permeated Huge field vacuum potentials. The dual and Alfven current currents are supposed to be the result. Higher Current pressure systems are depicted above and below.

Electron-ion jet.
Vacuum Push Gravity Butterfly curves around test masses.
Below: Merging of spiral galaxies to form elliptical galaxies according to QuantumFFF Theory.

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

Galaxy Merging means more GABHs.
More Galaxy Anchor Black holes means more Dwarfs.

Figure 5.

The new paradigm of star/galaxy formation and dying.

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

Quant galaxies die from the inside out. Star formation shuts down in the centers of elliptical galaxies first. According to Quantum FFF Theory, Galaxy and Cluster black hole hierarchy is the origin of dying galaxies where star formation in the center stops. Ring point sources (Dark matter black holes) in Virgo and Perseus cluster centers present evidence for black hole hierarchy: the smallest BHs are located in the centers and are not any more able to create Secondary black holes large enough to form feeding their systems with star formation in between. The result: Dying 'red and dead' galaxies as the sign of 'cosmic contraction and collapse' BHs in a specific multiverse.

Below: example of the galaxy black hole hierarchy model observed at Andromeda (M31 below left) and the Sombrero galaxy (M104 right).

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

Dual electron Dark Matter Black Holes are the origin of gas creation, controlled by electric currents and magnetic fields of Herbig Haro systems.

Below: Merging spiral galaxies with dual Herbig Haro object (Black Hole) systems, original connected by x-ray jets between multiple Electric Dark Matter Black Holes.

Galaxy Merging means more GABHs.
More Galaxy Anchor Black holes means more Dwarfs.

Comparison between Polar ring galaxies and Primordial early galaxy formation between two Galaxy Anchor Black Holes.

Black hole forming and plan for spiral formation because (A) is surrounded by PLANar structure (B).

The unstable tail swing is guided by external gravity sources like the opposing mirror black hole gravity and other more distant (Nucleus) sources.

Black hole forming the mirror plan for stable Herbig Haro formation (A) is unstable and PLANar structure (B).

Galaxy Merging means more GABHs.
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Figure 6.

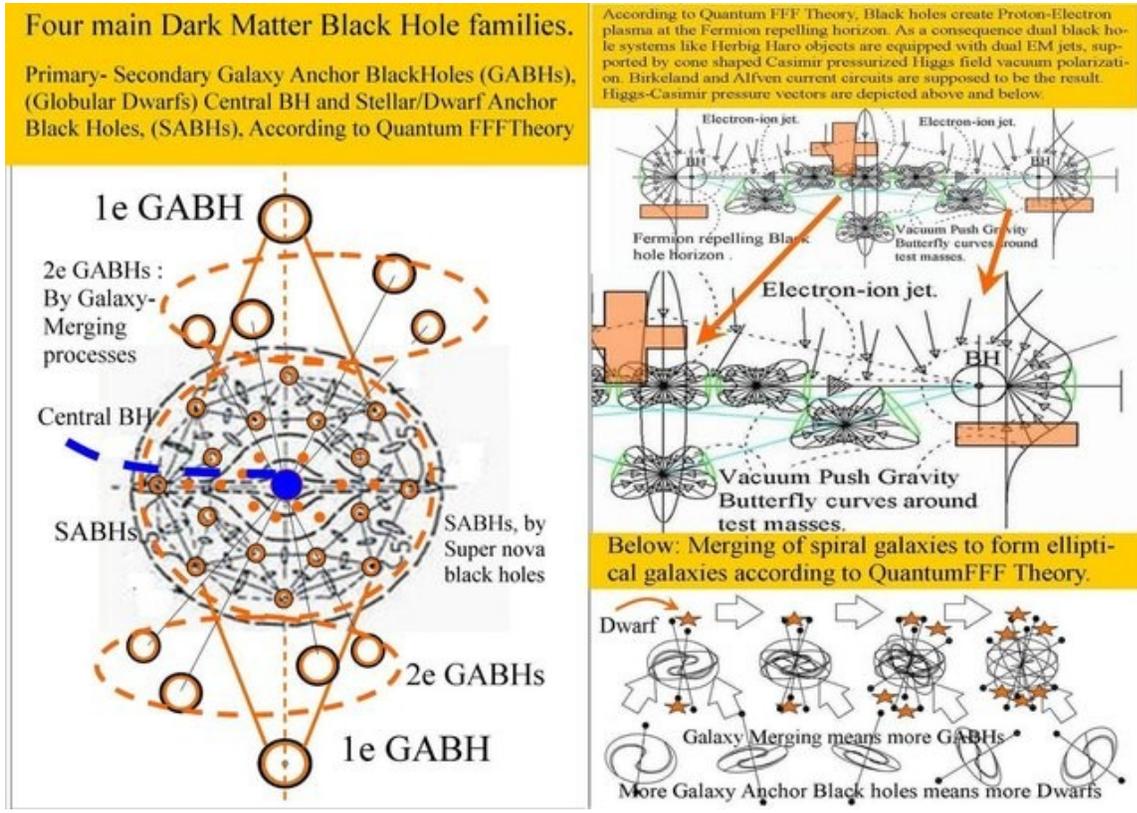


Figure 7.

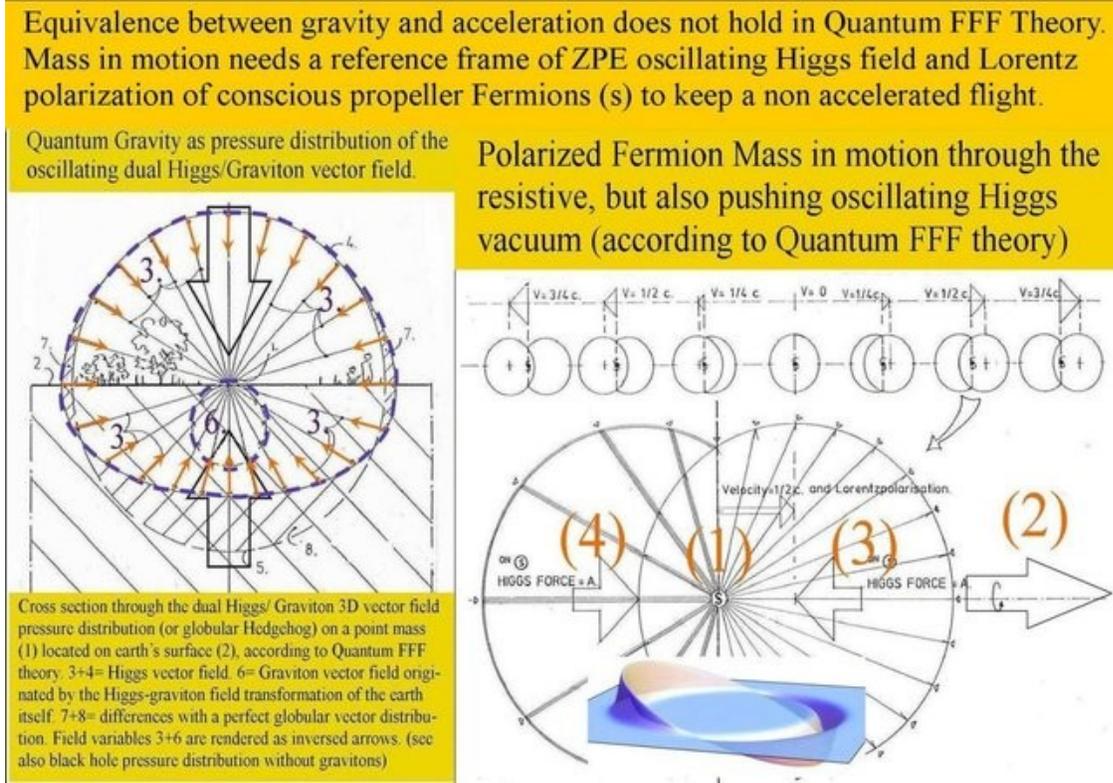


Figure 8.

Dark Matter = Dark Energy Vacuum particles and the Rest.

The primordial “Mother” particle of the universe is represented as Rigid ring, transformable over three hinges (Quantum FFF Model)

The NEW Black hole

Fermion repelling horizon

U-Quark production in favor of D-Quarks.

What is wrong with Physics?

- 1: Gravity is a dual Pressure Force.
- 2: The Vacuum has resistance for ALL motion.
- 3: Black Holes Repel ALL Fermions.
- 4: The Raspberry Multiverse has 8 or 12 symmetric anti-copy universes, which is the origin of uncertainty and Human Consciousness.

Rigid String Ball= Dark Matter Particle /Black Hole

The Rest

ALTERNATIVE STANDARD MODEL PARTICLE SYSTEM
90 DEGREE HINGES

COLD ELECTRON-ION PROPPELLER

LAST FOR ELECTRIC MONOPOLE PLUTONS

Axion-Higgs Ring= the Mother
=Also the Primordial Dark Energy / Dark Matter Particle

Rigid Transformer Strings.

Splitting String Black Hole Inflation/Vacuum evaporation

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.

Multi Bangs for Dual Symmetric Universes

Big Bang BH Splinters

Dual Quasars /Herbig Haro (Galaxy/ Stellar Anchor BHs)

Galaxy Central BHs growing by merger BHs of S-Novas as a start of a contracting Universe into a Big Crunch.

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

Cygnus A with dual plasma/gas producing “New physics” negative charged BHs as hotspots, with growing merger (SN) black hole in the center. Below: local Quantum vacuum push gravity vector butterflies originated by the BH vacuum absorption of jet dark vacuum energy.

“Branched Inflation” of the Universe: the Origin of Fingers and Voids.

New oscillating Axion-Higgs vacuum lattice

Empty space

Herbig Haro systems

The origin of the Lyman Alpha Forest (15) and Higgs vacuum, by the splitting of the Big Bang Black Hole (BBBH) into smaller Splinter BHs (10). The splinter BHs (10) evaporate into smaller evaporating black holes at the Front (14) which compensate the pressure from the Backside splinter BHs (11). The BHs (11) are assumed to partly evaporate like BHs (14) also into a newly formed oscillating Higgs vacuum until the Higgs vacuum pressure stops the evaporation and leave Galaxy Forming BHs (13) behind. However single BH will pair (16) with the nearest other BHs to form Dumbbell systems, which efficiently form Giant Stars and Galaxies (17) in between. (author: Leo Vuyk)

Electron-ion jet

Electron-ion jet

Vacuum Push Gravity Butterfly curves around test masses.

Fermion repelling Black hole horizon.

By Leo Vuyk.

Figure 9. book LuLu. 2019.

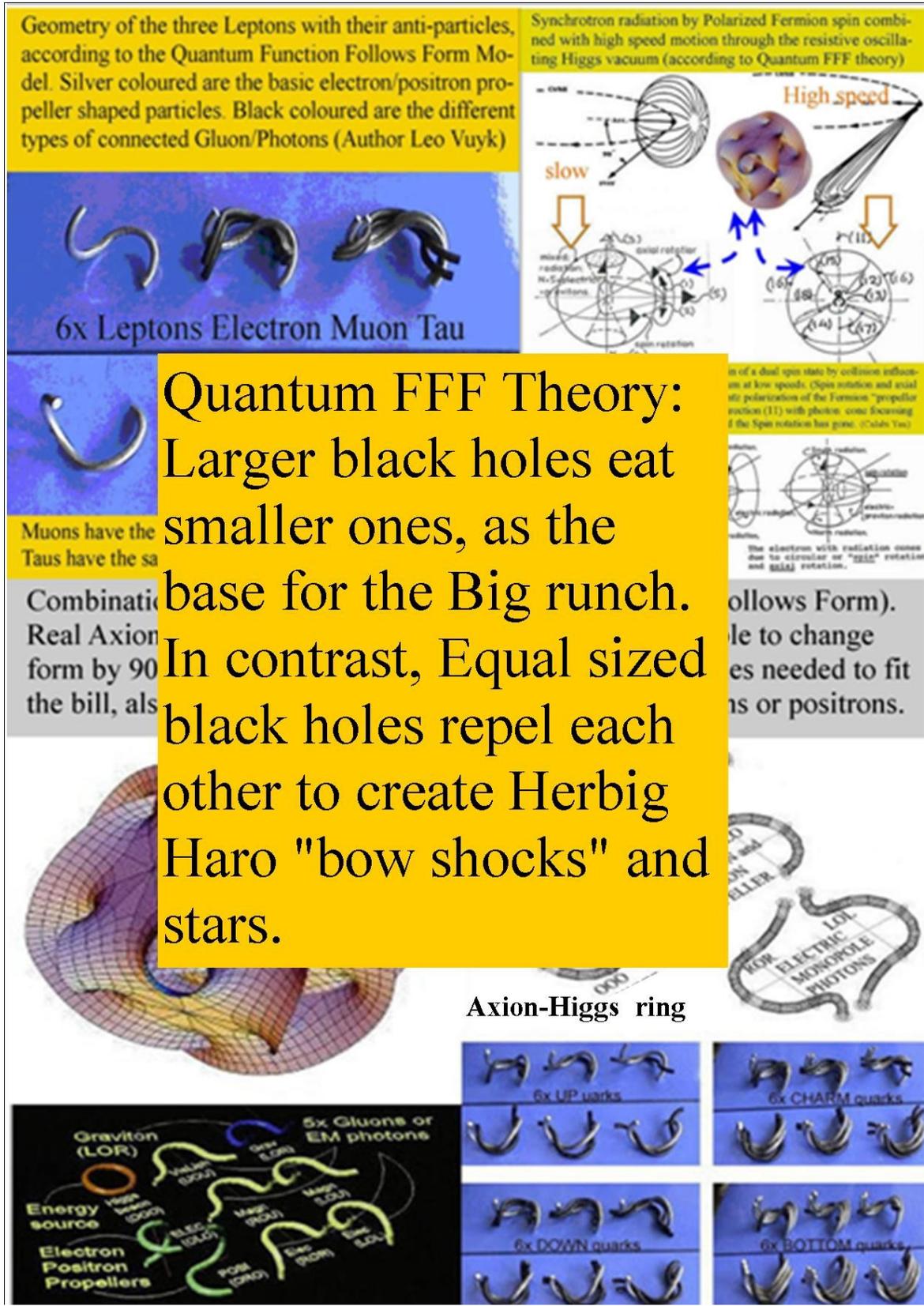
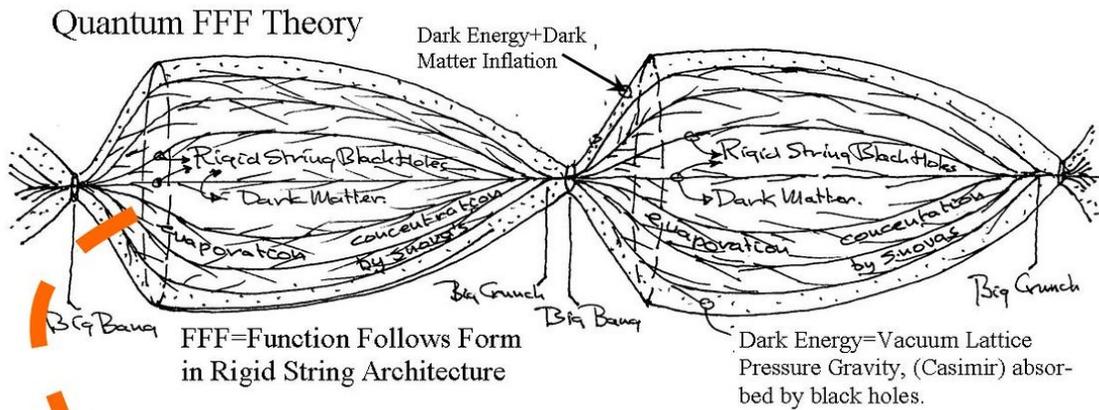


Figure 10.

The Bouncing Multiverse 2a

According to Quantum FFF Theory, we live inside one of a specific number of Charge Parity symmetric copy universes coming out of a huge (Axion/Higgs rigid string black hole nucleus = Dark Matter). All copy string particles are guided by long distance (holographic) multiverse entanglement and transformable by mutual collision into all Standard model particles and more. Such as monopole bosons or massless Axion/Higgs vacuum particles (Dark Energy), responsible for the Casimir effect and half of all other SM semi pressure forces.

One bouncing universe of the Raspberry Multiverse depicted.



Below: the usual BH dual pairing after the Big Bang splitting.

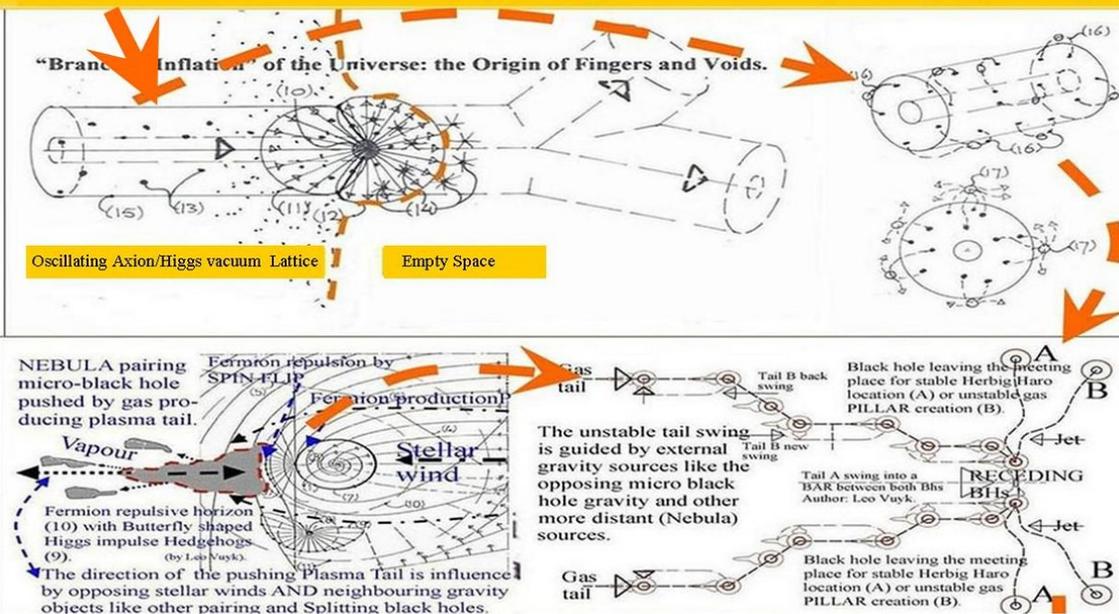


Figure 11.

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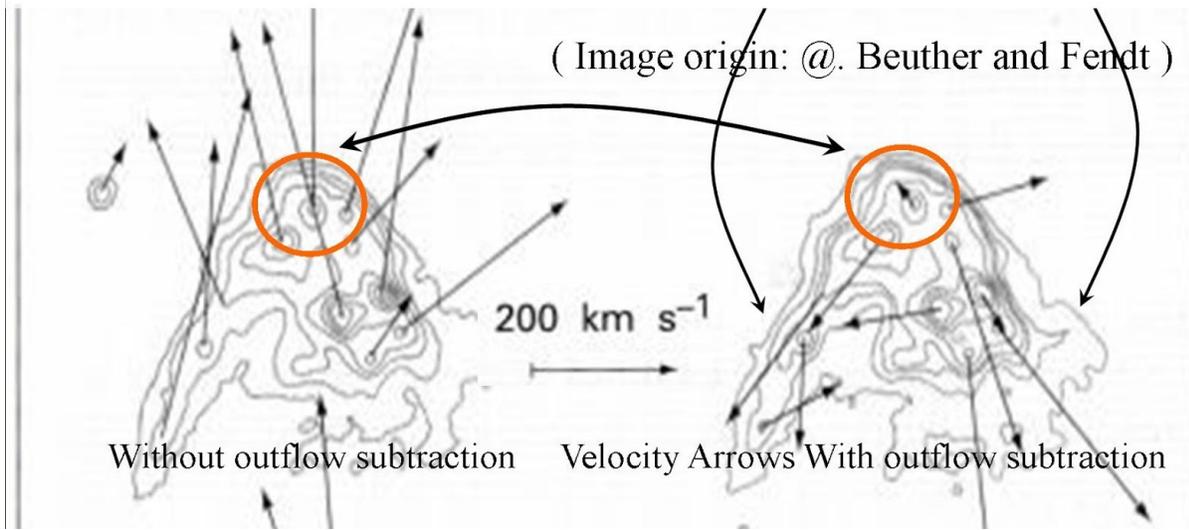


Figure 12.

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ISBN number 978-1-4092-1031-3 <http://www.lulu.com/spotlight/LeoVuyk>

Quantum FFF Theory is also published in the form of POSTERS at the Flickr site:

<http://www.flickr.com/photos/93308747@N05/>

Numbered listing (below: latest) of Vixra essays by Leo Vuyk. http://vixra.org/author/leo_vuyk

[124] viXra:1904.0599 The Origin of Universal Structure: Herbig Haro -Electric Dark Matter Black Hole- Systems.

Authors: Leo Vuyk

Category: Quantum Gravity and String Theory

[123] viXra:1903.0447 Black Hole Creation and Destruction of the Cyclic Conscious Multiverse.

[122] viXra:1903.0347 Visualizing Subatomic Particles as Building Blocks of the Universe.

[121] viXra:1903.0102 What Is Wrong With Physics?

[120] viXra:1902.0349 The Electric Universe by Electric Dark Matter Big Bang Black Holes of Quantum FFF Theory.

[119] viXra:1902.0201 Novel Ideas About Dark Matter and the SuSy Multiverse.

[118] viXra:1901.0426 4x and 3x Interference for Stringy Bose Einstein Black Hole Production.

[117] viXra:1812.0228 Equal Sized Rigid String Based New Black Holes do not Merge But, Form Herbig Haro Systems.

[116] viXra:1812.0095 $E = \text{not } Mc^2$ in Massless Black Holes According to Quantum FFF Theory.

[115] viXra:1811.0125 Testing Proposals for Human Free Will in the Raspberry Multiverse, Local Entanglement and M&M Lightspeed.

[114] viXra:1811.0002 Big Bang Energy out of Nothing, or a Compressed Rigid String Nucleus

[113] viXra:1809.0189 Apparent Violation of the Second Law, Around Black Hole Nuclei and Other Quantum Knots.

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[109] viXra:1806.0068 Primordial Electric Dark Matter Black Holes Outside Galaxies Responsible for the Creation and Contraction of a Cyclic Multi-Universe.

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[106] viXra:1804.0138 Non Inertial Dark Matter Black Hole Galaxy Hierarchy According to Quantum FFF Theory.

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