

# Plasma Production out of the Vacuum by Axion String Collision around each Black Hole at the Penrose Trapped Space Surface.

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## Abstract,

Matter production out of the vacuum is supposed to be obtained by the Penrose “Trapped Space Surfaces” around Black Holes in combination with Axion collision of the vacuum, with Pair production and even repelled charged plasma horizons and tails.

As a consequence the Big Bang is NOT assumed to be Hot, but a Cold explosion of Axion evaporating chunks of string based black holes which became responsible for mass/fermion production.

Recently Roger Penrose did speak about the logic of so called trapped space surfaces around black holes (fig 2 and <https://www.nobelprize.org/prizes/physics/2020/penrose/lecture/>) in his Noble speech wich is the same as the light horizon in Q-FFF Theory..

( Function Follows Form of real strings)

1: There seem to be TWO different black holes: small and large.

a: small interference black holes ( sunspots, comets and even magnetic interference ball lightning or Sprites and Elves above thunderclouds)

b: supernova black holes by implosion of stars, larger than the sun.

2: Fermions seem to have a propeller shape with left or right pitch for different charge and spin.

3: Magnetic- and electric fields seem to include monopole particles ( respectively North South, or plus and minus)

4: Spinning Fermions produce monopole photons anti-gravitons em. Monopoles and electron monopoles, by collision of yhe oscillating vacuum particle.

5: Each string has at least one super symmetric mirror particle connected by long distance wormholes between mirror symmetric raspberry shaped multiverses.

6: Both Black Holes a and b, repel fermions and create fermion pairs at their light horizon, which is the same as the Trapped Space Surface mentioned in his Nobel speech in 2020.

Met opmerkingen [LV1]:

## Introduction.

### My predictions for the TOE (Q-FFF Theory)

- 1: According to Q-FFF Theory ( Quantum Function Follows Form) black holes are knots of strings pressed together by the oscillating Axion-Higgs string vacuum lattice with righthand spiralling and variable Planck lattice distances between transition nodes.
- 2: The universe is an entangled part of dual Charge Parity Symmetric Charge Parity symmetric raspberry shaped bubble multiverse.
- 3: The multiverse is cyclic by the consumption of smaller black holes by larger black holes the content of the universe is decreasing including the vacuum.
- 4: Electric Birkeland Current Production Two Herbig Haro Black Holes in space can be miniaturized to microscopic magnetic interference Stable Ball Lightnings on Earth
- 5: Local Electricity currents can be created (in the future on earth), by small dual stable Ball Lightning Herbig Haro systems on earth for free energy.
- 6: Consciousness and human choice making is created by retardation of different readiness potentials times measured by Benjamin Libet on test humans on earth.
- 7: Benjamin Libet test results (RPI and RPII) suggest that we live inside one of the simulated
- 8 -There are 12 symmetric copy universes in raspberry shape in the multiverse.
- 8: As a result, we live with the illusion that we make our own decisions alone.
- 9: Such an entanglement in the universe is also described by John Cramer as a "Transactional Interpretation" (TI).
- 10: Also Bohmian double slit one photon interference experiment seems to be based on the former TI entanglement principle

We humans are our own entangled reflections from far away, in the mirror symmetric Multiverse.

The Base for the Ultimate Theory of Everything (TOE) is the reflective entangled multiverse supported by:

**John Cramer's TI** is the same as CP (Charge Parity) symmetric multiverse entanglement. (clocks are running only backwards over there)

TI is: Transactional Interpretation between mirror symmetric wavefunctions.

**Libet's retarded measurement** results between RPI and RPII, are assumed to be the support for TI.

**Bohmian Double Slit** Interpretation also seems to need a reflective entangled Universes, and the Benjamin Libet experiment.

Mirror symmetry could solve the absence of antimatter in one universe like our sole material universe.

### Could we live in a rigid string based information universe? (fig 25-26)

Characteristics:

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

2: A massless Axion Higgs particle is supposed to be energetic oscillating, it is the origin all particle motion and spin states and Dark energy inside a truncated tetrahedron shaped chiral vacuum lattice. The lattice chirality (left or right handed) is the origin of our material universe.

Axion-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, (anti-)Gravitons act with pressure instead of attraction on Fermions, however with less pressure than the Axion Higgs vacuum particles (dark energy).

4: Everything is entangled by instant communication between at least two anti-copy universe or Raspberry multiverse, being entangled since the big bang.

5: Black holes of all sizes (down to interference black holes like 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 Fermionic plasma at the BH horizon accelerated by the negative charged electron shell around each black hole..

6: The Multiverse is Pulsating by two phenomena,

A: The vacuum (Axion-Higgs) particle number is decreasing due to the absorption by new paradigm dark matter black holes (causing the Hubble redshift) and

B: by universal expansion caused by the explosion of the Big Crunch Black Hole.

Representing the former raspberry multiverse.

## Particles.

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 can be compared with 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 Higgs Boson recently found in the LHC is assumed to be not a single but a threefold knot of monopole magnetic particles ( North or South).

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, an unstable Higgs vacuum seems to be present around all black hole horizons due to observed H<sub>2</sub> plasma production and annihilation radiation created by pair production of positrons and electrons. (Instability of the Higgs field)

The Lyman alpha Structure of the universe seems to be the result of the H<sub>2</sub> production and black hole splitting process, which seems to be supported by the recently observed huge Quasar Groups found by R.Clowes, et al. (Ref: 96) and the recent UHECR ( Ultra High Energetic Cosmic Rays) observations from the Pierre Auger Observatory.(Ref. 97.)

Consequently this seems to be a new support to consider new astrophysical models such an alternative Big Bang black hole splitting process.

## The Holy Grail of science: the TOE

In Quantum FFF Theory, Fermions are supposed to be small rigid transformer strings with a propeller shape, able to become compound particles to form Quarks.

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 comparable pitch.

The rigid FORM and Microstructure of elementary particles (rigid strings), 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 new paradigm Dark Matter Black Hole, (DMBH) seem to be able to convert vacuum particle energy (ZPE) into real plasma which could explain quick Galaxy- and Star formation, by so called Galaxy- or Stellar Anchor Black Holes (GABHs respectively SABHs).

These Anchor Black Holes can be observed as Herbig Haro ( HH) Hotspots or Bowshocks. Recent observation of two High Energy Cosmic Ray Hotspots, (HECRHs) at solar polar locations, ( Big Dipper and Southern cross) is reason to assume in accord with new physics of Quantum FFF Theory, that these hotspots represents the locations of our Solar Anchor Black Hole (the North-and South SABHs).

At the same time in the Quantum FFF model, it is proposed that early Galaxies also are created by dual black hole ( HH) systems being former Big Bang black hole splintered primordial dark matter black holes.

They will be called Galaxy Anchor Black Holes ( GABHs)

As a consequence, the standard Hot Big Bang with Hot plasma and Hydrogen as the base for everything has to be rejected.

Recent observation of a faint galaxy without a dark matter content (NGC 1052 DF2) seems to be created by the star forming capacity even by triple pairing dark matter black hole nuclei, located in the center of the surrounding globular star clusters assumed to have a triangular topology.

## New Quantum Physics.

Quantum FFF theory 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 Axion-Higgs impulse array and the opposing (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 real rigid Axion Higgs particles. Only the statistical sum of the different kinds of vacuum impulses from all directions on Fermions is responsible for all (energetic) phenomena in the universe. The accelerating plasma tail of NEW paradigm black holes, and the splitting black holes by smaller pairing black holes is supposed to be the origin of a smooth proliferation of black holes in the universe. The Eagle Spire Nebula, the Carina and other nebulas are examples of

a smooth proliferation of black holes through Galaxies and Nebula. What we can observe in these nebulas is the pairing and splitting of black holes ending up into multiple Herbig Haro objects as the origin of new stars as the start of small open star clusters..

Our sun is supposed to be also a remnant of a former open star cluster located in between two Stellar Anchor black holes, representing the so called hotspots of a former Herbig Haro object.

The solar planetary system and planets are supposed to be expelled from the ever growing Sun by instable stellar rotation effects.

As a result we may discriminate two different kinds of stars:

Stars accompanied by two or even more Stellar Anchor Black holes (SABHs) and stars that are not.

As a result we may observe clear differences in the way stars form planetary nebula at the end of their life.

There are Planetary Nebula's (PNs) with and without clear hotspots located on both sides of the symmetrical exploded gas distribution.

Next pages should give visual support for these statements.

## Short historic reference.

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 Vigiér** 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 Vigiér, 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.

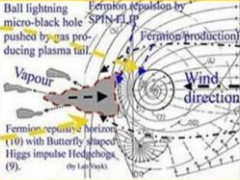
**The New Physics of the Penrose-Q-FFF Black Hole with a Trapped Vacuum Collider Horizon, creating and repelling Fermion Matter.**

Stable Micro Comets, Ball Lightning and WIMPs are the future solution for our CO2 problem, by electric vacuum energy production technology. [http://vixra.org/author/leo\\_vuyk](http://vixra.org/author/leo_vuyk)  
 See: Artificial Ball Lightning production and exploitation device for Zero Point Electric Energy usage. <http://vixra.org/pdf/1108.0036v6.pdf> and <http://vixra.org/pdf/1404.0151v1.pdf>



Ball lightning pushed by Plasma tail against the wind

Vapour trail washed out by the wind



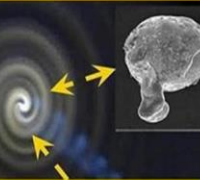
Fermion repulsion by SPIN-ELP

Fermion production

Wind direction


Vapour

Fermion repulsive horizon (H) with Butterfly-shaped Higgs impulse Hedgehogs (9)



Self propelled Ball Lightning-Micro Comets.

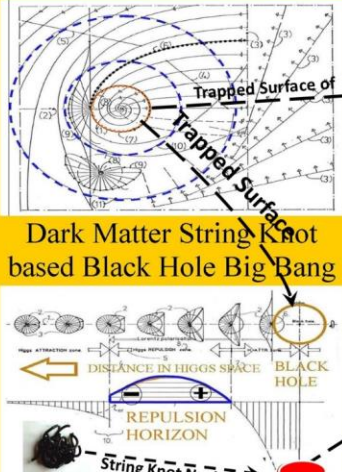
A Revolution in Physics and Community.  
 There are two production methods of Black Holes with the new physics Penrose-QFFF Fermion repelling horizon: A: Super Nova Black Holes.  
 B: Micro Black Holes like Ball Lightning and Sunspots. (unstable respectively stable) by strong Magnetic Interference. Sunspots are assumed to be crashed Comet. (Fermion repelling Black Holes.) Future energy production for free, out of two Micro black holes like Herbig Haro star forming systems.



Micro Comets (micro black holes)

Figure 1, Ball Lightning produced by Interference of colliding Axion-Higgs Vacuum Particles.

**Fermion Propeller Creation and Repulsion by the Trapped Space Surface. With charge splitting Around a Black Hole due to the chiral oscillating String vacuum (Comparing Q-FFF Theory (left) and CCC of Penrose (right) )**



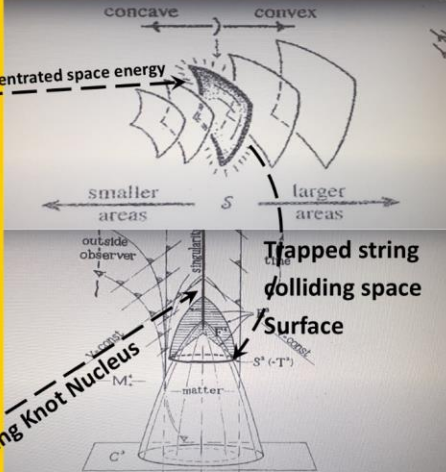
Trapped Surface of concentrated space energy

Trapped Surface

Dark Matter String Knot based Black Hole Big Bang

REPULSION HORIZON

String Knot Nucleus



concave convex

smaller areas larger areas

Trapped string colliding space Surface

outside observer

matter

$S^+ (-T^+)$

$C^+$

$r^2=2m$   $r^2=0$   $r^2=2m$

Figure 2, Penrose trapped string colliding space surface (right) and Quantum FFF Theory (left) combined. See Penrose: <https://www.nobelprize.org/prizes/physics/2020/penrose/lecture/>

## A New Penrose (Q-FFF) Black Hole.

The Penrose Trapped Space horizon, is creating the Universe, Plasma clouds pushing the black hole away from other masses. (Q-FFF Theory)

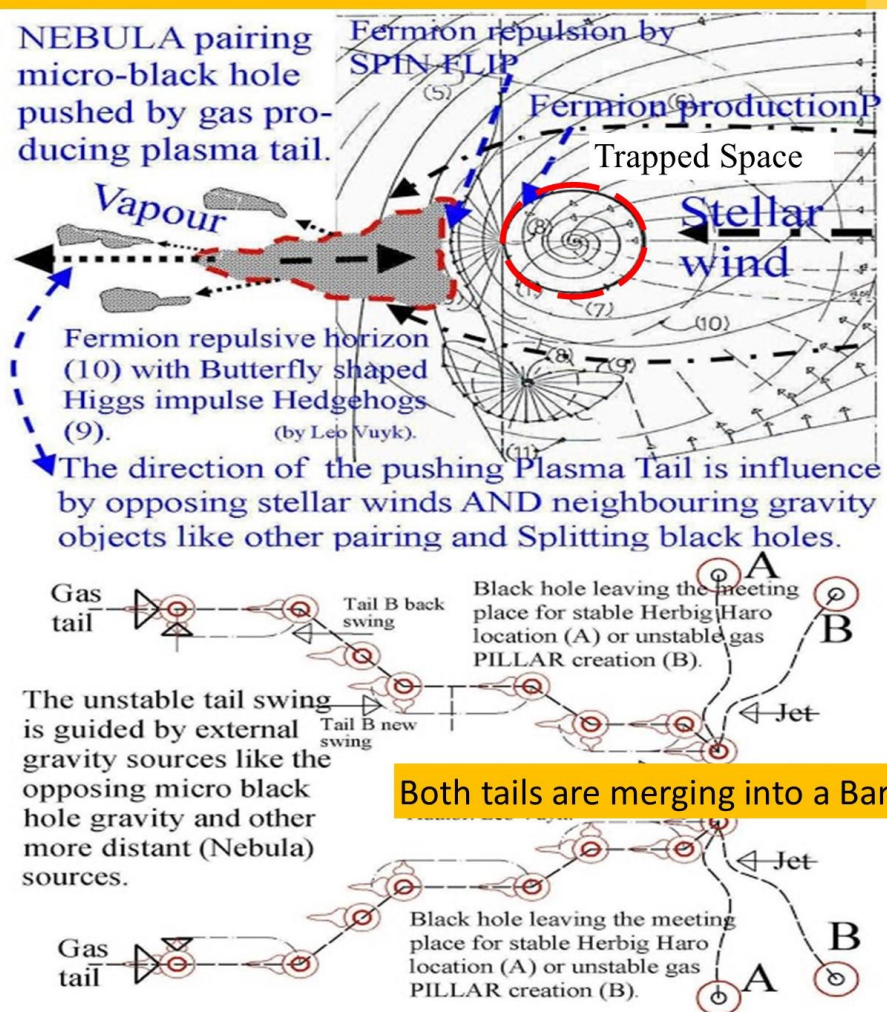
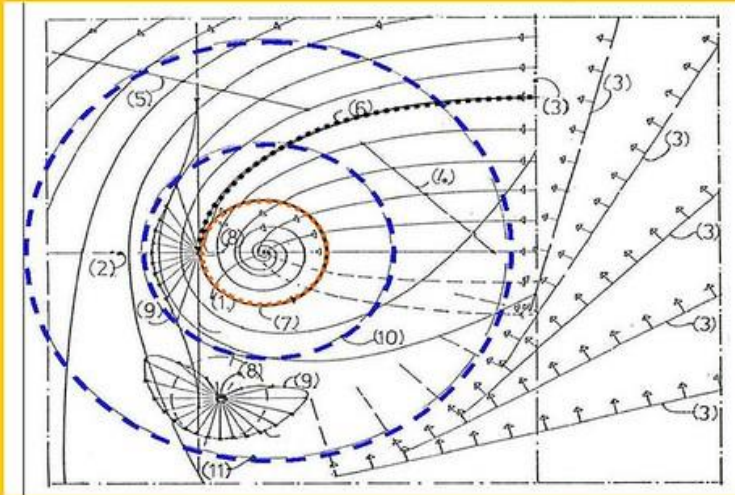
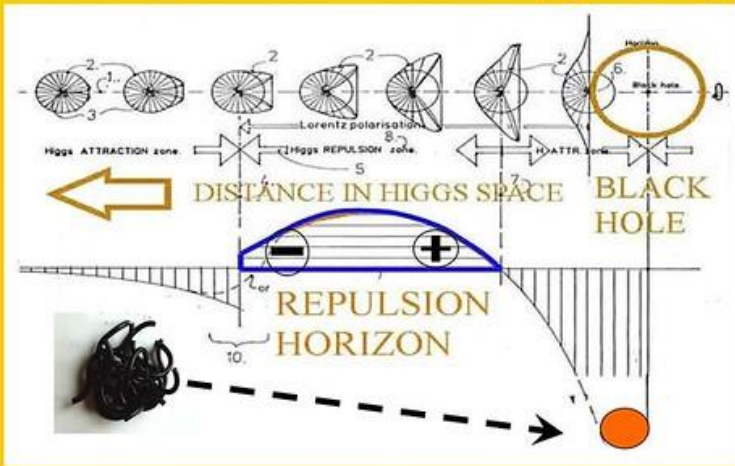


Figure 3. The new Penrose -QFFF Black Holes with trapped fermion repelling horizon, leading to Herbig Haro matter creation systems out of the vacuum.



## Dark Matter String Knot based Black Hole Big Bang



## Q-FFF Theory by Leo Vuyk

Figure 4 Q-FFF Theory based on repulsion zones around each black hole.



# An new image of the String Knot Dark Matter Black Hole Big Bang explosion

Made by NikHef with an alternative cold Dark Matter Black Hole Big Bang, in line with Q-FFF Theory. ( below)



## Big Bang/ String Knot Black Holes/ Dual Herbig Haro Black Holes/ Stars / Galaxies

evaporation process, according to Quantum FFF Theory

Multi Bangs for Dual Symmetric Universes

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

Big Bang BH Splinters

Big Haro system

Dual Galaxy Anchor BHs

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

"Big Bang Inflation" of the Universe: the Origin of Filings and Voids.

New oscillating Axion-Higgs vacuum lattice

Empty space

Herbig Haro systems

The origin of the Lyman Alpha Forest (LF) and Higgs vacuums, by the splitting of the Big Bang Black Hole (BBBH) into smaller Spinless BHs (SBH). The spinless BHs (SBH) evaporate into smaller evaporating Black holes at the Front (LF) which compensate the pressure from the Backside spinless BHs (SBH). The BHs (SBH) are assumed to partly evaporate into BHs (LF) also into a newly formed oscillating Higgs vacuum until the Higgs vacuum pressure stops the evaporating and leaves Galaxy Forming BHs (LF) behind. However single BH will pair (LF) with the massive other BHs to form Chernobyl systems, which ultimately form Giant Stars and Galaxies (LF) in between. (arXiv:1403.0004)

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 dark vacuum energy.

Electron-ion jet

Electron-ion jet

Fermion repelling Black hole horizon

Vacuum Push Gravity Butterfly curves around test masses.

Figure 5, The String black hole big bang with later Herbig Haros dual black hole star forming.

# Alternative Standard Model of Quantum FFF Theory

With ONE Axion-Higgs Mother particle

The Axion- Higgs Vacuum Field particle is coded OOO, representing three closed Rigid String hinges of the mother rigid ring, able to rotate in steps over 90 degrees into L,U and R: Left Up and Right,

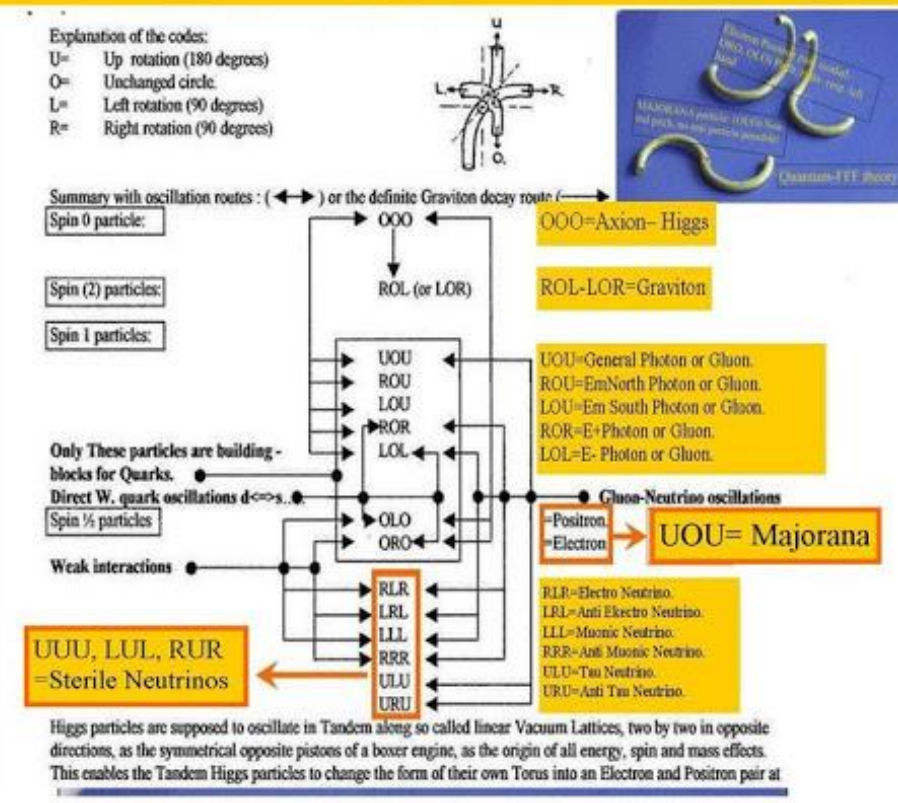


Figure 6, Single rigid string particles with much dualities, (stil undiscovered) described by only three hinges and 4x possible rotations of 90 degrees. (ULRO)

# Galaxy Anchor Black Hole triple pairing.

The Mystery of NGC 1052 DF2 solved, by the triangle grouping (instead of dual grouping) of the Dark Matter Black Hole splinters of the Big Bang nucleus explosion, buried in the centers of the very large Globular clusters. According to Quantum FFF Theory. (triple Galaxy Anchor Black Holes: GABHs)

Below: an alternative triangulation of most global star clusters



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

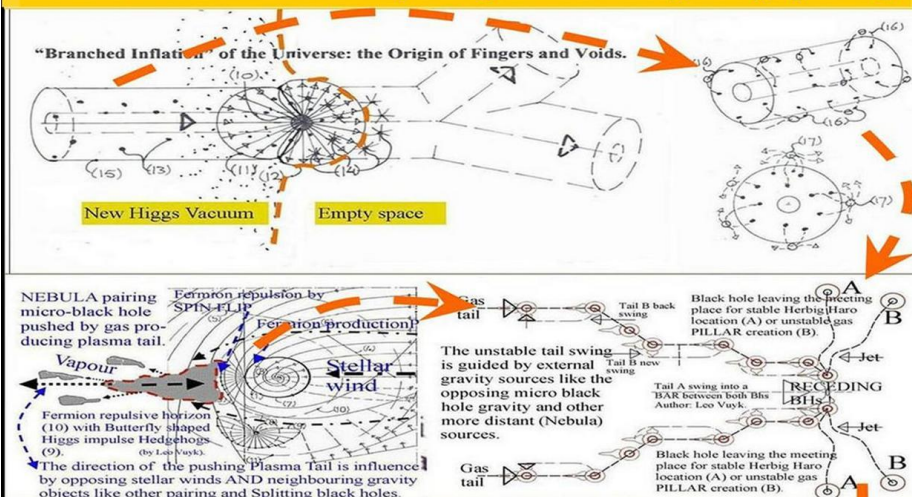


Figure 7, Galaxy Anchor Black Hole by triple Pairing of DMBHs, of NGC 1052 DF2

Dual Solar Hotspots as remnants of former Herbig Haro system suggested in 2014, by Quantum FFF Theory and found later (2015) by K.Kawata et all. (UHECR)

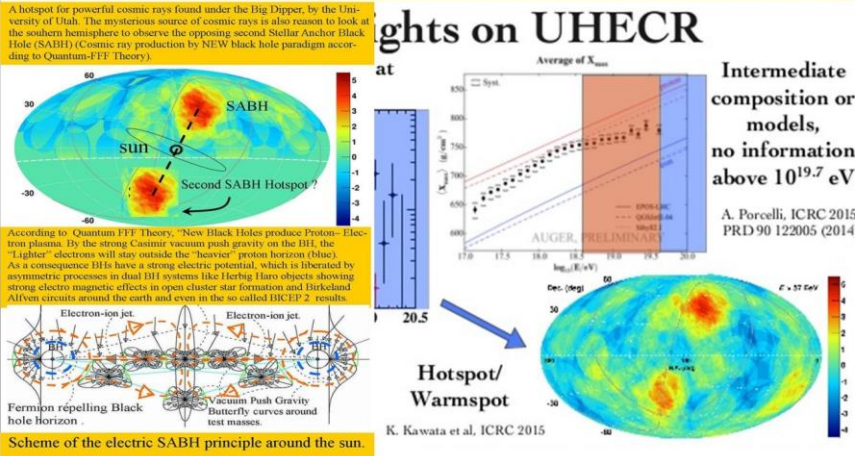


Figure 8, UHECR = Ultra High Energy Cosmic Radiation by A Percelli ICRC 2015. PRD90122005 (2014) and A. Kawata et al. ICRC 2015.

The origine of Double MWC922 interference rings

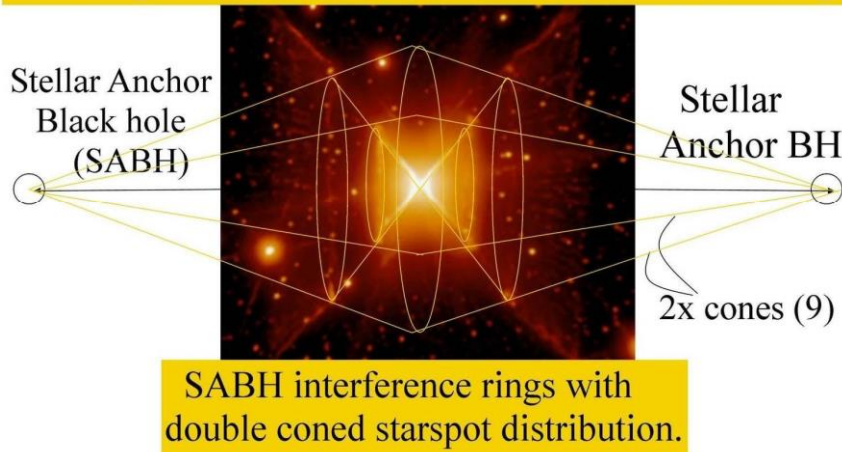


Figure 9, The Red Square Planetary nebula MWC922, equipped with double cone structure of expelled material including trailing starspots (Micro Black Holes). There are FOUR cones of interferences originated by the two Stellar Anchor black holes (SABHs). These four cones seem to interfere with the TWO cones of expelled material of the star, leading to FOUR rings of interference.

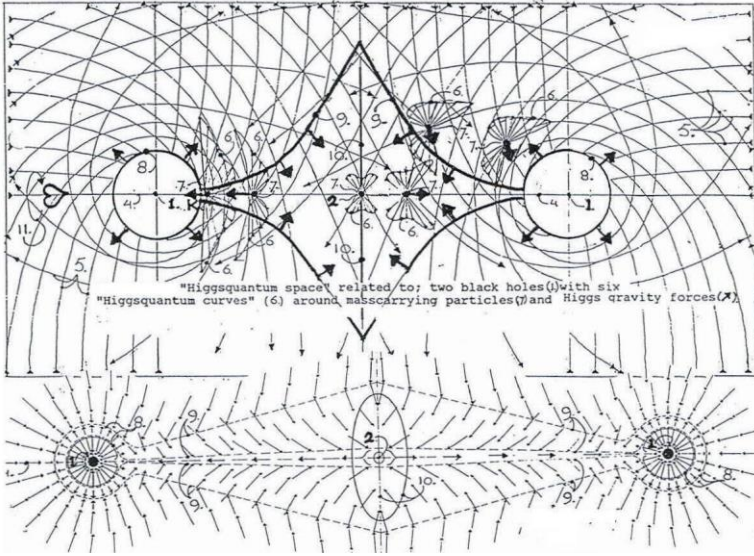


Figure 10, Axion Higgs Vacuum structure around a set of two Black holes, as is found to be present around Planetary nebula and early Galaxies and Herbig Haro objects.

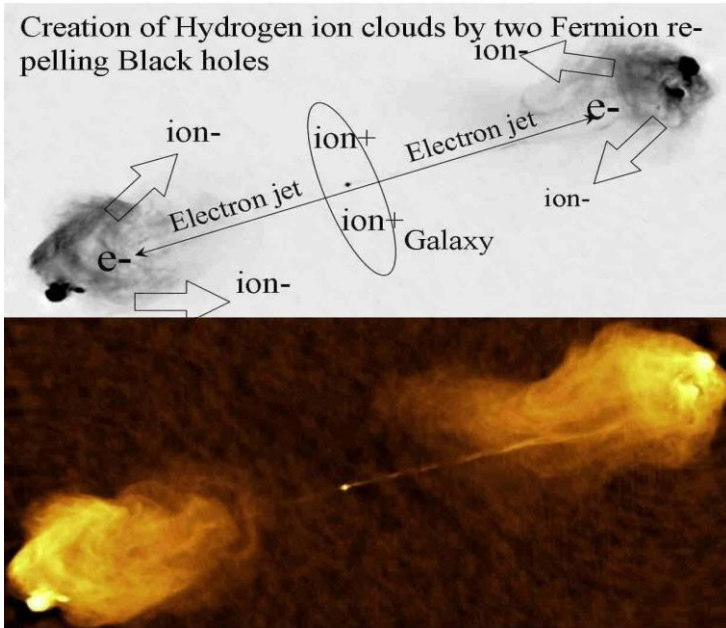


Figure 11, Cygnus A, equipped with Galaxy Anchor Black Holes (GABHs) clear electron jets and Hotspots, showing ionized gas production.

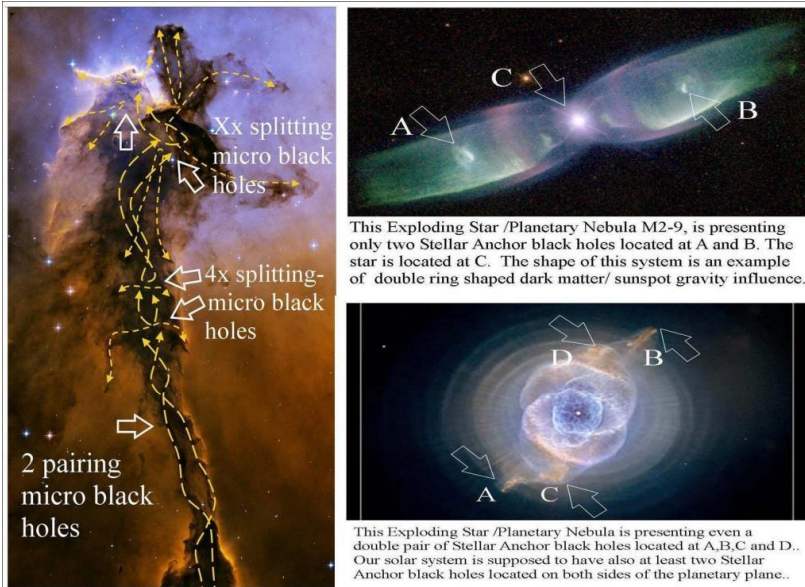


Figure 12, The Spire Eagle nebula, with two Planetary nebula, examples of the importance of black holes in the universe.

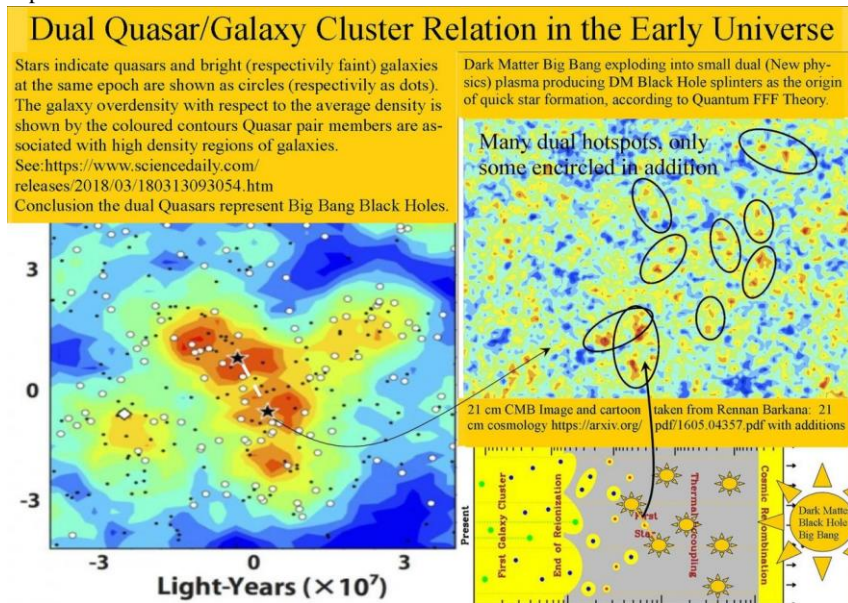
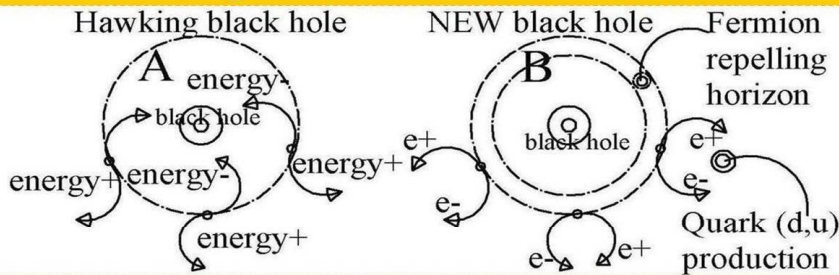


Figure 13, Dual Quasar/ Galaxy and Cluster forming relation in the early universe after Dark Matter Black Hole nuclear Big Bang splitting.

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



According to Quantum FFF Theory, there is no fermion information loss, only photonic information loss in a black hole. Quantum fluctuations around the BH horizon produce pairs of leptons.  $e^-$ ,  $e^+$  and even compound quarks (d,u, etc, see Fermion 3D string propeller theory: Fermion repelling by spin flip). For tripple BH horizons see image nrs 7, 10 and 11. Event horizon=7, Inner photon ring = 10, Outer photon ring = 11. Conclusion The Big Bang did not produce instantly all the Fermions in the universes. Even now lots of Fermions are produced by all BHs even the largest primordial Big bang splinters located outside large galaxies. see also: <http://vixra.org/abs/1410.0039>

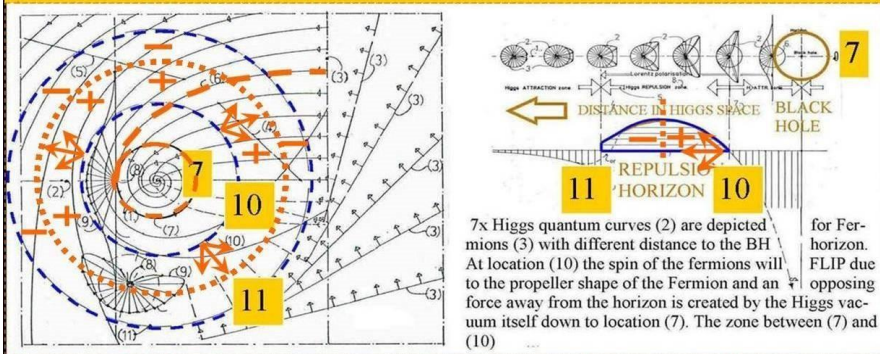


Figure 14, Principle of Fermion repulsion around a black hole according to Quantum FFF theory..

## First evidence for a Solar Anchor Black hole: a Cosmic Ray

**Hotspot** . 9-july 2014. first evidence for the first Solar Anchor Black Hole. (SABH) A hotspot with powerful cosmic rays found under the Big Dipper, by the University of Utah. Now ( 2017) however the southern counterpart ( the second SABH hotspot) is found. See also: <http://www.sciencedaily.com/releases/2014/07/140708092910.htm>

A mysterious source of high energy cosmic rays are found north near the Big Dipper (university of Utah) In addition: the south pole IceCube experiment found concentrated neutrino sources at north and south locations (see upper figure, nrs.23+ 18) Both could represent the Stellar Anchor Black Hole (SABH) locations of the sun, according to Q-FFF theory.

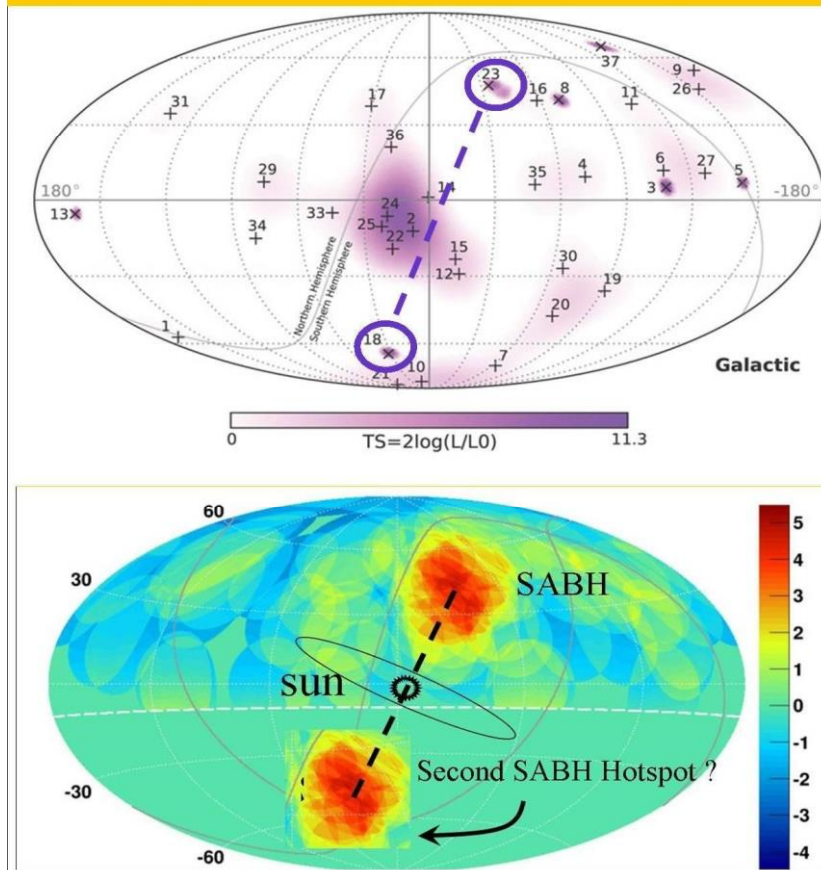


Figure: 15, Dual Stellar Anchor Black Holes around the earth !!



Mystery of the “super string of young stars” around two merging giant ellipticals in the cluster [SDSS J1531+3414](#) solved by the merging and stabilisation into multiple new star forming Herbig Haro systems of both Galaxy Anchor Black Holes (GABHs) systems of both galaxies. (according to Quantum FFF theory)

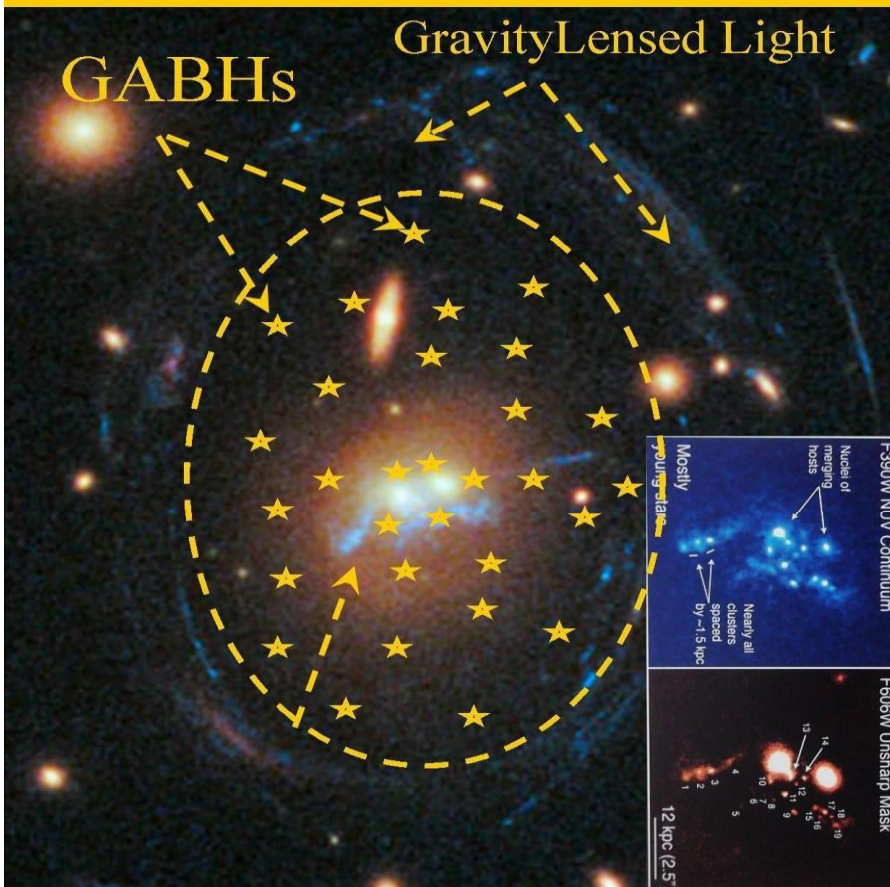


Figure: 16, Gravity lensed light through central hole in the globular Shell of Dark matter Black Holes or Galaxy Anchor Black Holes ( GABHs). The absence of GABHs in the centre is supposed to do the job.

# Some dual dark matter black hole related structures and HH systems.

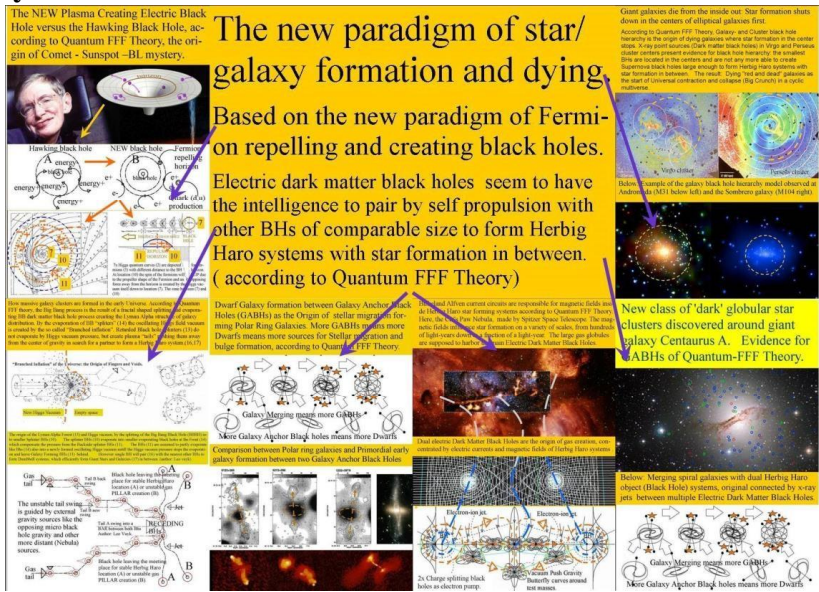


Figure 17, The new paradigm.

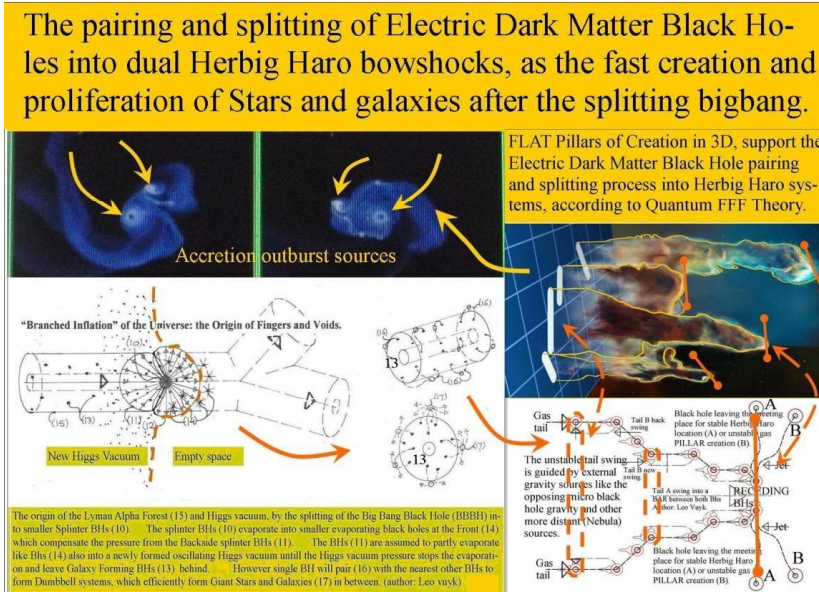
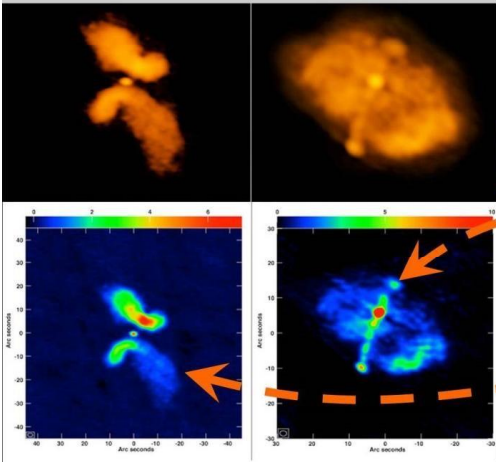
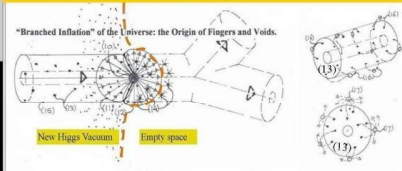


Figure 18, Examples of HH objects and dual DMBH pairing

Abundance of X-shaped radio sources with off-axis distortions. With  $Z=0.2-0.8$ . by D.H.Roberts et al. in line with the Quantum FFF model.



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



The origin of the Lyman Alpha Forest (15) and Higgs vacuum, by the splitting of the Big Bang Black Hole (BBBBH) 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 Vayk)

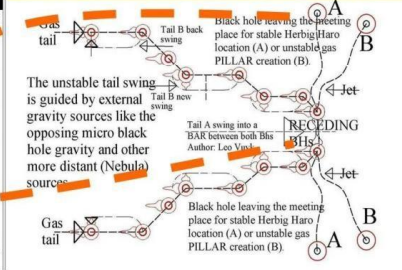
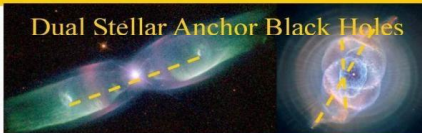
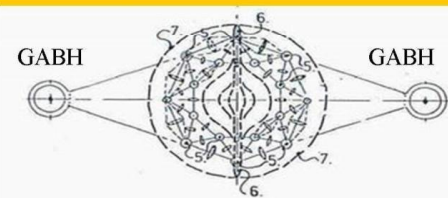


Figure 19, Abundance of X shaped radio sources.

## Secondary and tertiary Dual BH Herbig Haro systems, as the origin of different shaped dwarf galaxies and Star clusters.

Below: Simplification of different sized dual black hole (5) based Herbig Haro Systems with dwarf and star formation in between, in the halo of the MW.

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



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

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

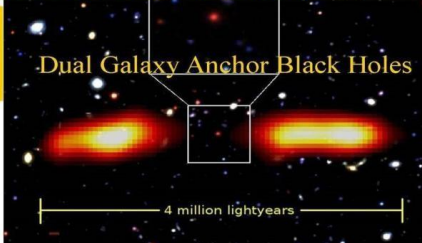
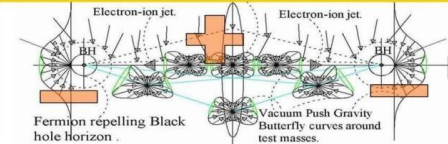


Figure 20, Secondary and Tertiary Dual BH HH systems.

Bok Nebula ESO 9934 with indication for a Micro-Herbig Haro dual BH system inside. According to Quantum FFF Theory.



Two aligned stellar alike strings (A) starting from the central white hole (B) located between the Herbig haro Black Holes (C)

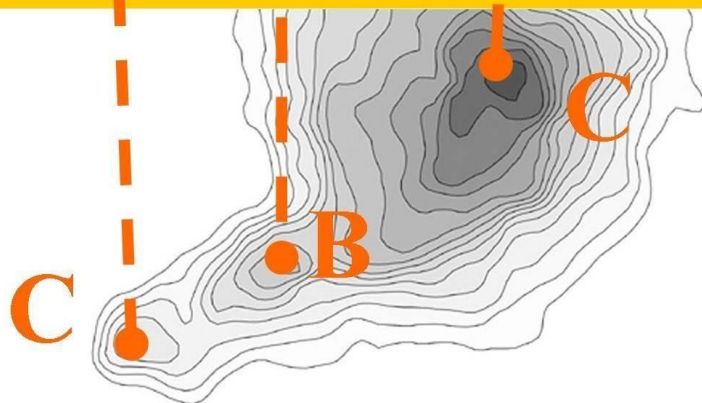


Figure 21, BOK Nebula ESO 9934.

## Examples of Magnetic Monopole Condensations (Rigid Strings) leading to variable Higgs masses, Erebons and Micro Black Holes.

Composite rigid transformable string models based on 3x internal-90 degr. step rotation of the Axion-Higgs Torus made of primordial matter.

Geometrical proposal for the sub-quantum structure of 6 Leptons and Quarks interpreted as compound Photon/Electron/Positron propeller combinations. Muon- and Tau particles seem to show up as family members of the Down respectively Charm Quarks.

The basic rigid transformable Axion string Torus with aspect ratio ( $\approx 7$ ) and 1x splitting and 3x hinges made of primordial matter, according to Quantum FFF Theory.

All Photons (1x graviton, 2x electric, 2x magnetic and 1x general x-gamma-ray photon) and two Fermions, are transformed direct out of the massless Axion/Higgs ring, by internal hinge rotation over 90 degree steps. Electric Dark Matter Black Holes (EDMBHs or EREBONS (Penrose) are formed by 3 or 4 photon knots (ball lightning). Neutrinos are single transformed photons or fermions.

125-750 GeV. Higgs  
Erebons  
EDMBHs

Rigid String Quantum (3 or 4x) Ring Knots, adding up to higher mass unstable micro quantum black hole nuclei.

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)

125GeV+375GeV=500GeV And More

500GeV

375GeV+375GeV=750GeV

2x750GeV+125=1625GeV

Some suggested ring configurations

Some other combinations

2x mirror Symmetric Z particle left (1x Electron+1x Positron, ), rightside: 2x mirror A-symmetric W $\pm$  particles. (W $^-$ : 2x electron+ 1x Positron, W $^+$ : 2x Positron and 1x Electron)

Figure 22, Examples of Rigid string topology.

## 'Black Hole Splitting for (TDRG)' J1216+0709

Black hole splitting as the origin of spiral Galaxies after a double or multiple lobed Quasar process.

Markarian 231 as the Infant Stage of Cygnus-A Quasar. By EDM Black Hole

Triple-Double Radio Galaxy (TDRG) J1216+0709

In Quantum FFF theory, stars and galaxies need at least two new physics Electric Dark Matter Black Holes (EDMBHs) for a Herbig Haro system (or dual lobed Quasar). However multiple symmetric lobed systems seem also possible by a repeated central black hole splitting 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 Vayns)

Dual black hole merger nominal mass contents observed by LIGO in 2015 and 2016 resp. 29/56 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?

1.0//>50.0?

Galaxy central BH Merger: 1.0 //>50.0?

Small black holes should split larger BHs into two equal parts to create dual Herbig Haro hotspots also called dumbbells or micro-herbig haro systems.

Markarian 231

NEBULA pairing micro-black hole pushed by gas producing plasma tail

Gas

Stellar wind

Gas tail

Black hole leaving the merging place for stable Herbig Haro formation (1x) or unstable gas (2x) creation (95)

Black hole leaving the merging place for stable Herbig Haro location (A) or unstable gas (2x) creation (95)

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

Cygnus A

Figure 23. Black hole splitting and merging possibilities.

Ultra Diffuse Galaxies (UDGs) formed inside Clusters between GABHs ( External Galaxy Anchor Black Holes= Dark Matter point sources). According to Quantum FFF Theory.

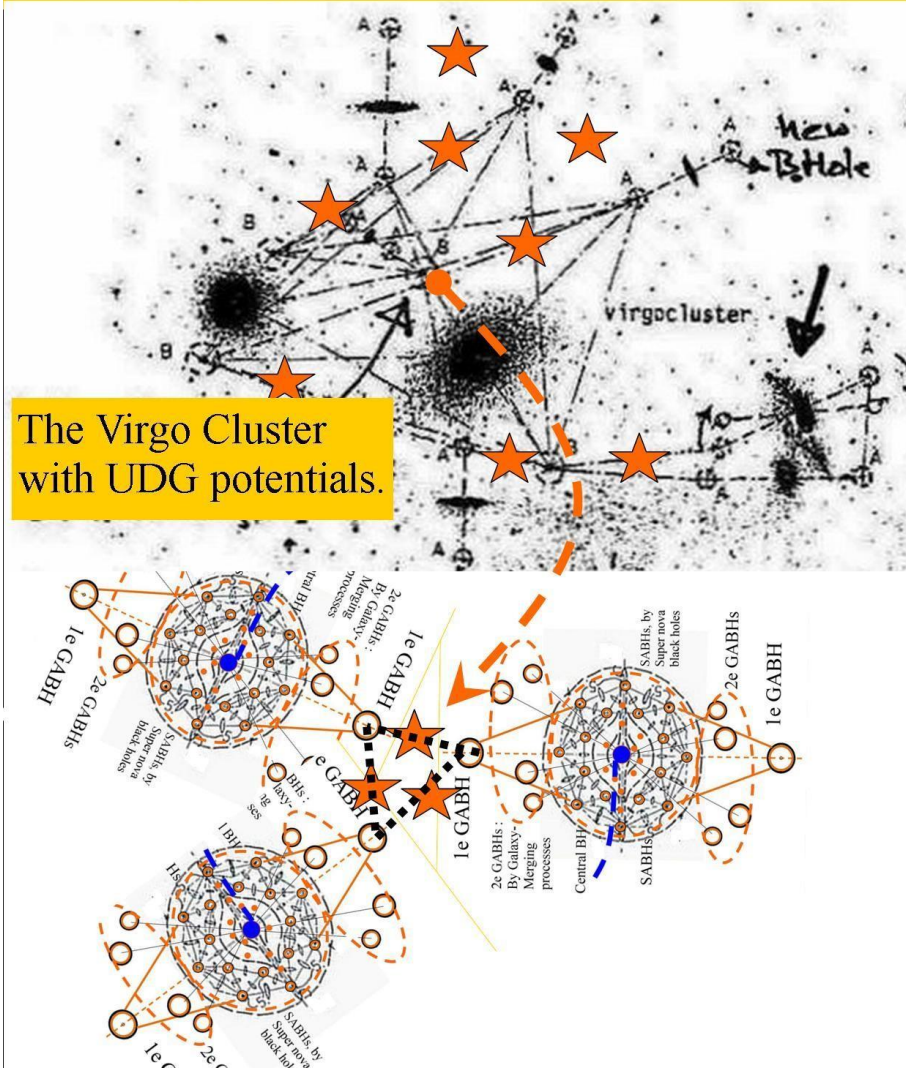


Figure 24. How galaxy clusters come together, with faint new formed galaxies in the center.

# Bouncing/ Cyclic Multiverse.

The Big Bang and Big Crunch originated by Black Hole splitting, pairing and recycling into massive growing central galaxy black holes, according to Quantum FFF Theory.

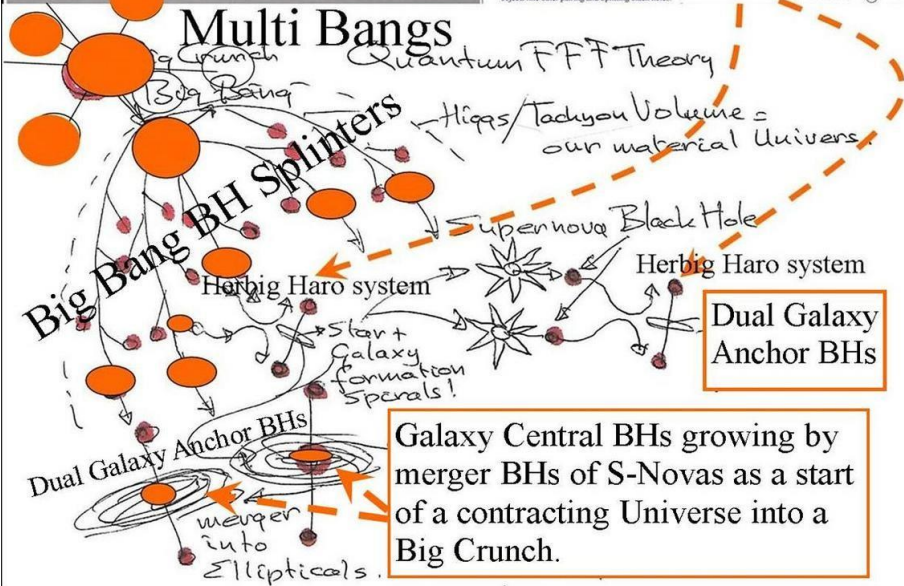
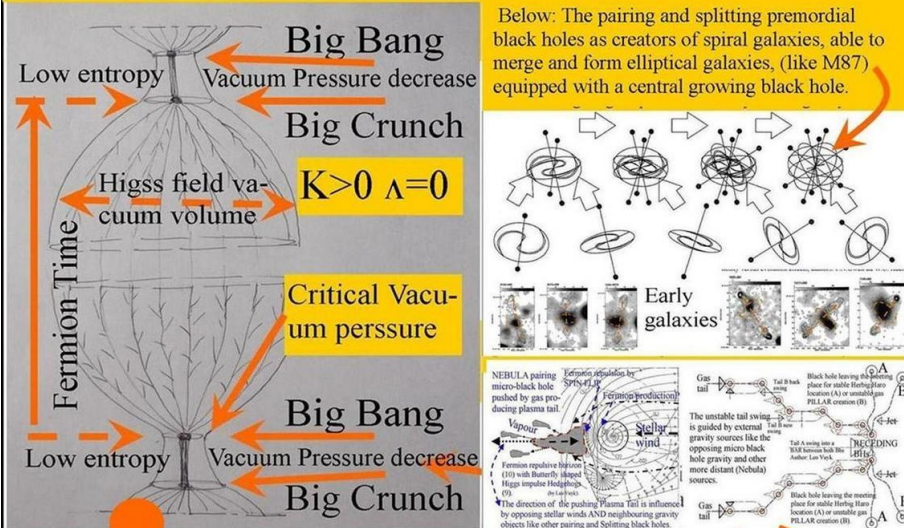


Figure 25, The big Bang splitting of the Dark Matter Black Hole nucleus.

**We seem to live in a rigid string based information universe.**

See image:

**Interference Quantum Black Holes (left) could travel through the LHC machine at CERN without notice and produce UFO dust particles by decay heat.**

**IF Quantum black holes have no propeller spin or EM charge, then we could live in a rigid string based information universe.**

<http://vixra.org/pdf/1707.0189v2.pdf> and:

<http://vixra.org/pdf/1306.0218v1.pdf>

**Fermionic propeller shaped Quantum Knots (right) and NON Fermionic Higgs based Quantum Knot-Black Holes (left)**

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)

125GeV + 375gEv = 500GeV And More

500GeV

375GeV + 375gEv = 750GeV

2x750GeV + 125 = 1625GeV

6x Leptons Electron Muon Tau

6x UP quarks

6x CHARM quarks

6x DOWN quarks

6x BOTTOM quarks

6x STRANGE quarks

6x TOP quarks

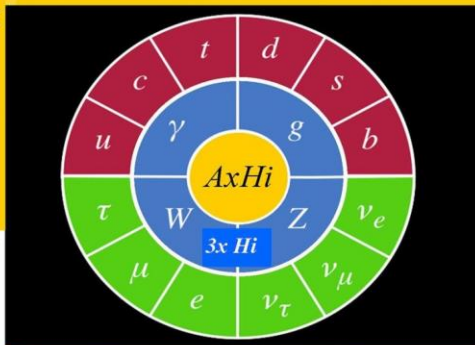
Figure 26, Rigid string topology with sub quantum structure able to make quantum knots of different masses and functions.



## Three or more Higgs models in a 3D Rigid String System.

In 1012 the Atlas particle smasher in LHC found two distinct possible Higgs masses around 125GeV.: 123.5 and 126 GeV. Later a bump was found around 375 GeV. Here I present 3D suggestions for such bumps in a Rigid String based Quantum FFF model.

The New Standard Model of Quantum FFF Theory, with Transformer Toroid Axion Higgs, (*AxHi*) as the zero mass Virgin String particle.



Three different shaped Composite Higgs Particles seem to be possible at least: 123.5/ 126 (Mirror Symmetric), and 375 GeV.

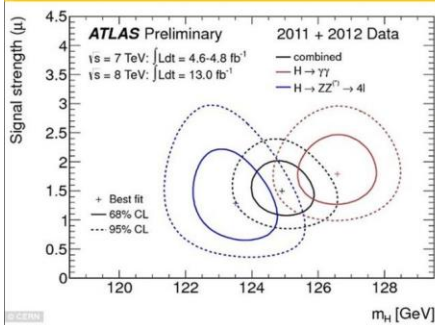


Figure 27, Three or more Higgs models in a 3D Rigid String system.

## Non Inertial Gravitating Dark Matter Black holes.

According to Quantum FFF Theory, stable Black Holes are growing by "eating" the gravitating ( Casimir) pressure vacuum without the standard gravity related inertial effects, the result is that 1: Small BHs seem to concentrate around the central giant Galaxy BH . 2: Galaxy cluster mergers like Abell 520 overshoot and leaving behind their own Dark Matter content.

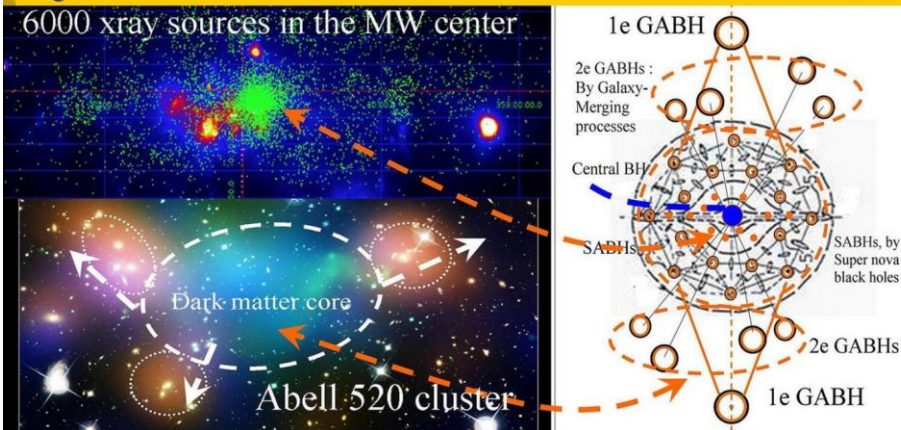
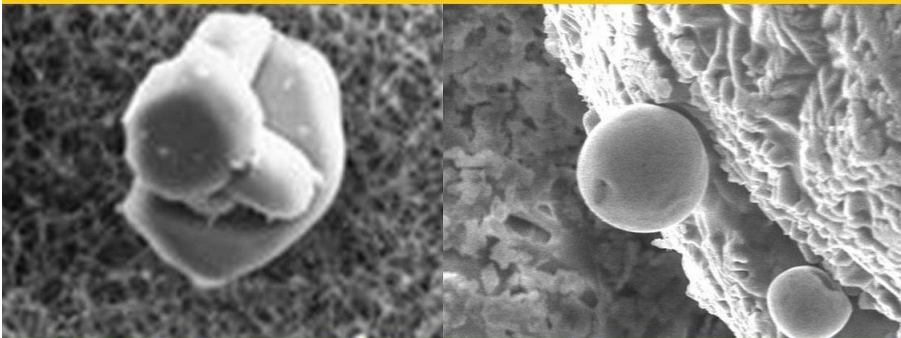


Figure 28, Non inertial Gravitating Dark Matter Black Holes and some specific astrophysical effects.

Suggestion for the origin of UFO dust particles inside the LHC at CERN: particle based Quantum Knot heating according to Quantum FFF theory.



Comparison of UFO dust particles diam. 10 mu.m at CERN (left) inside ceramic tubes and on Silicon discharge globules in the lab. 100 mu m (Right)



Below (in yellow) the Quantum Knot trajectory

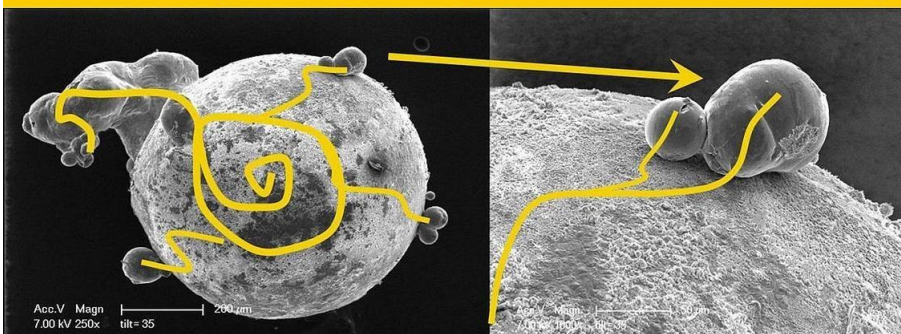


Figure 29. Magnetic Interference microscopic Higgs black holes, ( quantum Knots) with heating effects in silicon and as CERN LHC UFO dust particles.

## Multiple Horizons created around Supernova Black Holes.

Proposal for the relation between different S-Nova shapes and the external primordial black hole configuration called Herbig Haro hotspot or Stellar Anchor Black Holes (SABHs)

Different Super Nova shapes are created around two star types:  
 A: Stars with distant "dual or quadrupole Stellar Anchor Black Holes" assumed to be located in the center of a former open star cluster. (SN1987, NGC2440, Crab Nebula)  
 B: stars without SABHs. (SN1572) Our sun is equipped with two sunspot rings assumed to be of type A, with two SABHs, according to Quantum Function Follows Form Theory.

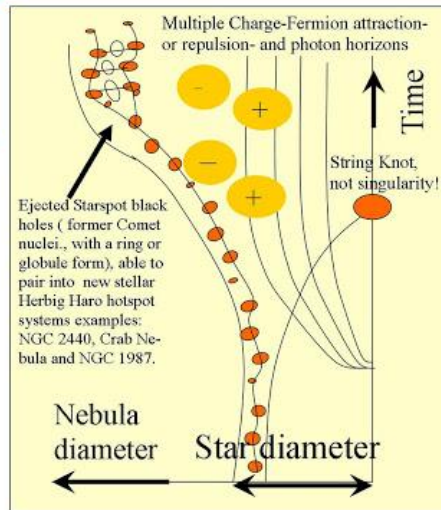
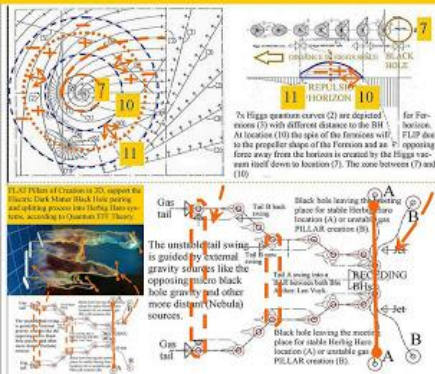
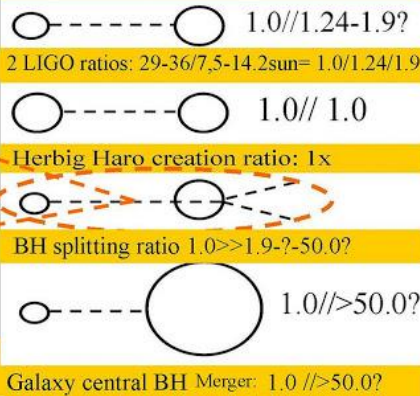
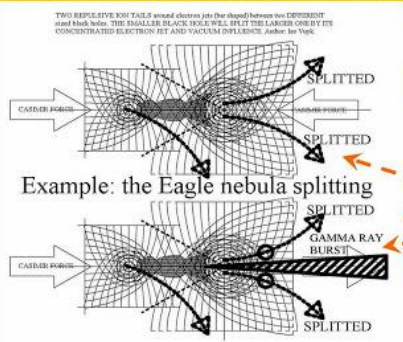


Figure 30, Super Nova Starspot Black Holes forming small Herbig Haro systems.

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).

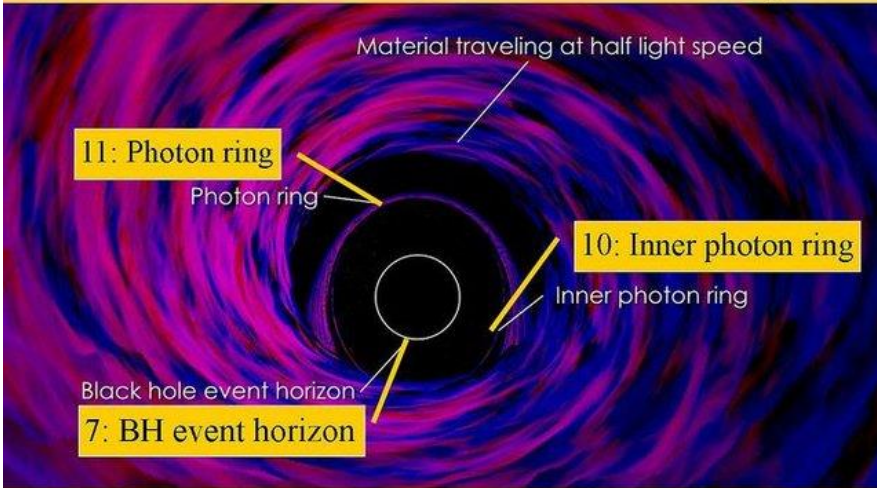
Dual black hole merger nominal mass contents observed by LIGO in 2015 and 2016 resp. 29/36x and 7.5/14.2x sun masses. see: Quantum FFF Theory. The related ratios are: 1/1.24 resp. 1/1.9.



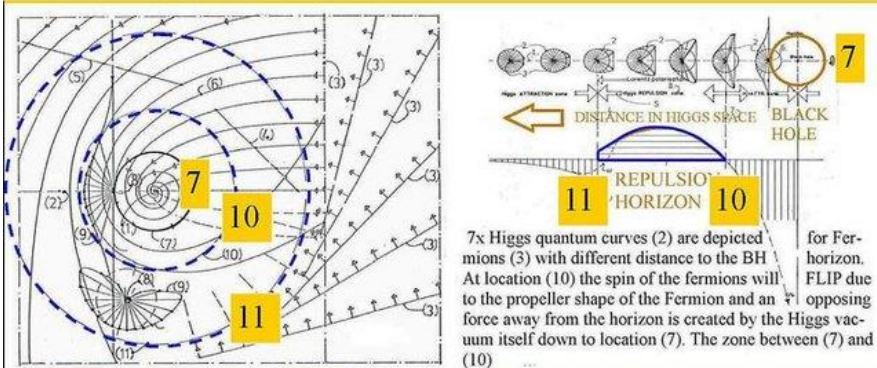
Small black holes should split larger BHs into two equal parts to create dual Herbig Haro hotspots also called bowshocks or accretion outburst sources.

Figure 31, Black Hole Ratios with absorbing consequences.

# Tripple Black Hole horizons found by NASA in accordance with Quantum FFF theory..



For tripple B-H horizons in Quantum FFF theory see (nrs: 7: Event horizon, 10: Inner photon ring, (10+11 =Fermion repulsion zone) 11: Photon ring )



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

- 1: Non rotating Black hole nucleus (in 2D cross section).
- 2: Reference axis for trajectories 4,5 and 6.
- 3: Other incoming photonic/Higgs fronts (without depicted trajectories)
- 7: High photon energy collider globular shell, with intense Quantum effects like pair production ( $e^-e^+$ ). 8: test masses.
- 9: Butterfly shaped Higgs/photon Fermion pushing curves in 2D.
- 10 and 11: Fermion repulsion zone. Due to the propeller shape of the Fermions, they will experience a so called "Spin Flip" in this zone.

Figure 32, Different horizons around the Black Hole.

## The New Black Hole according to the Quantum-FFF Model: Negative Charged (outside) and Fermion (Plasma) Creation out of the massless Axion-Higgs String vacuum. (Fermion repulsion).

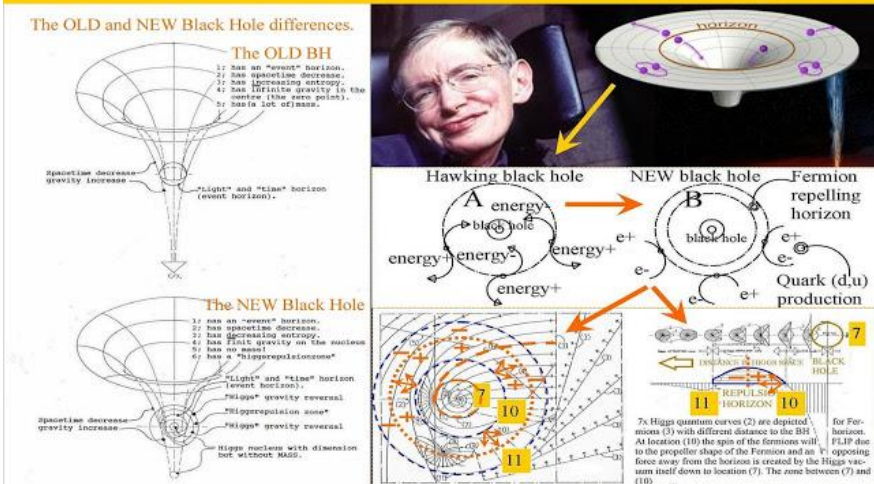


Figure 33, Negative charged Black hole at the outside, positive at the inside originated by the chiral vacuum.

## Examples of Magnetic Monopole Condensations (Rigid Strings) leading to variable Higgs masses, Erebons and Micro Black Holes.

Composite rigid transformable string models based on 3x internal-90 degr. step rotation of the Axion-Higgs Torus made of primordial matter.

Rigid String Quantum (3 or 4x) Ring Knots, adding up to higher mass unstable micro quantum black hole nuclei.



Figure 34, examples of rigid string vased monopole particles.

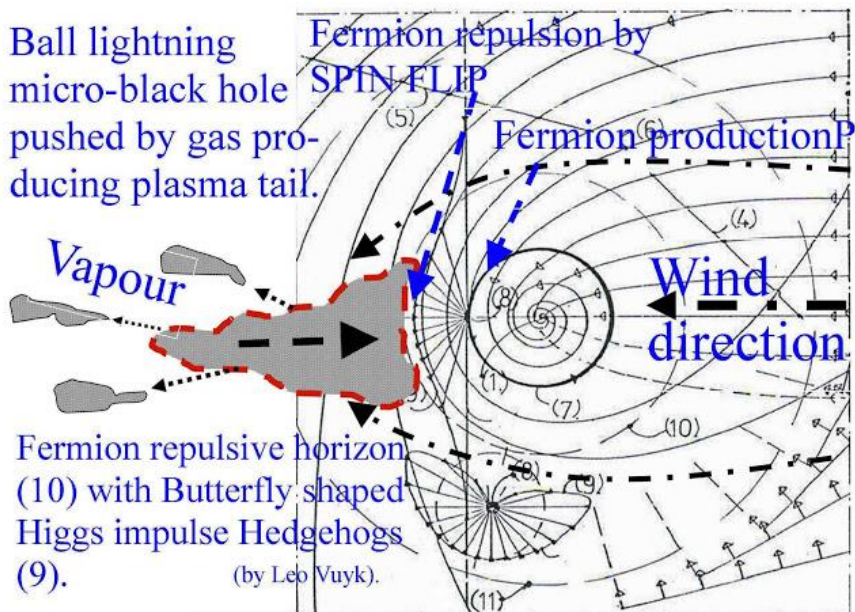
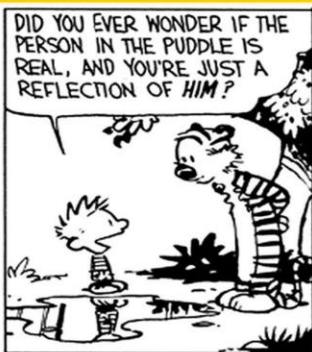


Figure 35., Details of vacuum synchrotron motion around a black hole with plasma creation and tail.

Schrödinger's cat paradox solved with Dual Anti Matter Copy Cats, living inside Entangled Raspberry Multiverse Bubbles.

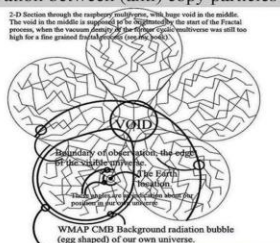
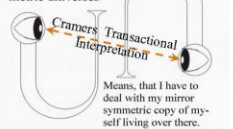
Anti Matter deficit problem solved by the mirror symmetric Undivided Multiverse without dual Cats in boxes.



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

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

Mirror symmetry between CP symmetric universes



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 36: Schrodinger's cat problem is solved by Cramer's TI. No human eye is needed for cats.

## In Addition.

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!

The result I try to describe :

- 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 PBBS hotspots, produce central plasma concentration in electric Herbig Haro systems as a base for star formation in open star clusters as a start for Spiral Galaxies.
- 6: Spiral Galaxies will keep both Primordial Dark Matter Black Holes as Galaxy Anchor Black Holes (GABHs) at long distance.
- 7: After Galaxy Merging, these GABHs are the origin of Galaxy- and Magnetic field complexity and distant dwarf galaxies .
- 8: Black Holes produce Plasma direct out of the Higgs field because two 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. 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. According to Max Tegmark: in an entangled multiverse we may ask: is There copy pesron 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,

## References;

See : **The reflective multiverse of set theory**

CLLAM Seminar: **Paul Gorbow** EVENEMANG

Datum: 26 april 2019 10:00 - 26 april 2019 :The reflective multiverse of set theory



I present a construction of a model of an expansion of set theory. It embodies a conception of a multiverse of universes of set theory, with an untyped notion of truth-relative-to-a-universe.

<https://www.philosophy.su.se/forskning/projekt-och-centra/cllam/cllam-seminar-paul-gorbow-1.423192?cache=>

New evidence that the highest energy cosmic rays come from beyond our galaxy.

<http://www.sciencemag.org/news/2017/09/ultra-high-energy-cosmic-rays-come-galaxiesfar-far-away>

**R.Clowes et al.** A structure in the early universe at  $z$  1.3 that exceeds the homogeneity scale of the R-W concordance cosmology, see: <http://arxiv.org/pdf/1211.6256v1.pdf>

**Books:** The New God Particle and Free Will. Author: Leo Vuyk, LuLu publishers, 2008. ISBN number 978-1-4092-1031- <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 (latest) of Vixra essays by Leo Vuyk.

[http://vixra.org/author/leo\\_vuyk](http://vixra.org/author/leo_vuyk)

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[137] [viXra:2006.0069](#) Dual Centrifugal Fermion based Synchrotron Space

[136] [viXra:2005.0212](#) Em Drive Space Thrusters Without Lorentz Reaction Force,

[135] [viXra:2005.0193](#) Em Drive Space Thrusters Without Lorentz Reaction Force,

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[133] [viXra:2004.0638](#) New Physics EM Drive Space Thrusters and Fermion

[132] [viXra:2002.0094](#) Electric Birkeland Current Production Between Two Herbig Haro Black Holes or

[131] [viXra:2002.0074](#) 3-Dimensional Rigid Transformer Strings with Composite Topological Strings

[130] [viXra:2002.0073](#) The Origin of "Ultra Diffuse Galaxies" in Galaxy Cluster Centers and the Start Inside the Contracting Abell 520.

[129] [viXra:1911.0346](#) The Cyclic Undivided Raspberry Multiverse.

[128] [viXra:1909.0417](#) The Magic Fermion Repelling Stringy Fuzzball Black Hole, the Origin of a Cyclic Raspberry Multiverse.

[127] [viXra:1907.0250](#) The Conscious Readiness Potential Ratio Multiverse with Transactional Interpretation of J. Cramer.

[126] [viXra:1905.0244](#) EM Drive Thruster by Anti Maxwell Dual Monopole Tubular Interference Field Reduction Around a Conductor.

[125] [viXra:1905.0123](#) The Conscious Undivided Multiverse,

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

[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.

[112] viXra:1807.0437 Preference for Dual Herbig Haro Black Hole Consumption by the Central MW Black Hole, Leaving Plasma Jets Behind.

[111] viXra:1806.0368 A Fifth Force Vacuum Dipole Repeller, Needed to Create All Attraction Forces Even Around Black Holes in Quantum FFF Theory.

[110] viXra:1806.0298 Expanding Earth, by Growing Water based Crashed Comet core.

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