

Herbig Haro hotspots or bowshocks are the origin of star formation, not the result as the mainstream suggest.

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Abstract,

Function Follows Form in Quantum FFF Theory.

The rigid FORM and Microstructure of elementary particles (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 Black Holes, seem to be able to convert vacuum energy (ZPE) into real energy and even matter and explain quick Galaxy- and Star formation, by so called Stellar Anchor Black Holes (SABHs), Herbig Haro Hotspots (Bowshocks), down to Sunspots, Comets and even Ball Lightning.

Recent observation of a Cosmic Hotspot under the big dipper is reason to assume that this is the location of one of our solar Stellar Anchor Black Hole (the North-SABH), reason to search for the other one: south located. At the same time it is proposed that Galaxies also are supported by dual black hole systems being the former Big Bang splitted primordial black holes. Called Galaxy Anchor Black Holes (GABHs)

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 accelerating plasma tail of NEW paradigm black holes (Ref.1,4), 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, (fig. 5) 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 Vigié 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.

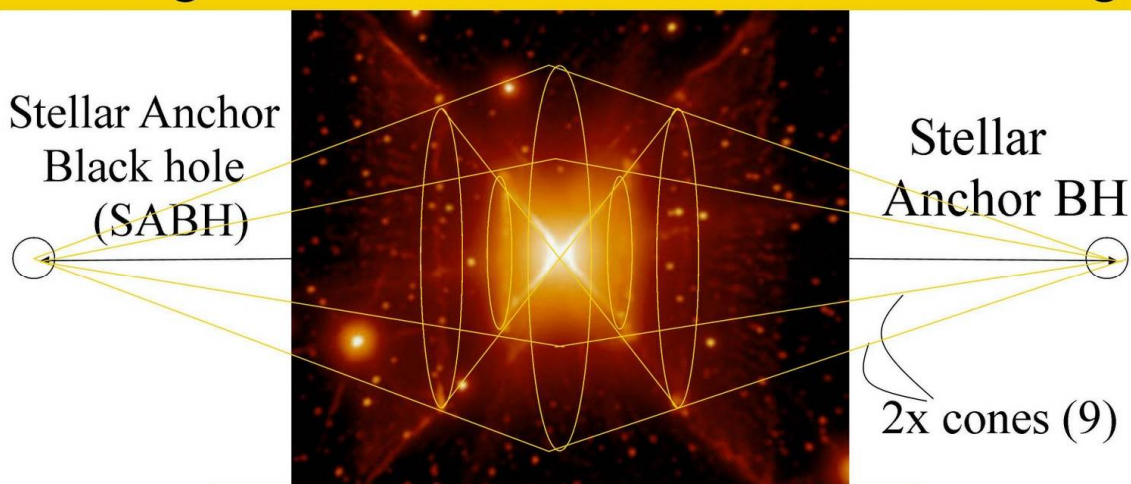
Q-FFF, is a rigid string theory.

Rigid strings are assumed to mutate and merge by interlocking into (lepto) Quarks. The architecture of the quantum world based on a massless single Higgs torus able to mutate into electron or positron or photon.

So photon radiation is only the transfer by oscillating encoded Higgs particles living inside the space time lattice.

Fermions have to work hard against bouncing Higgses to pass this lattice and mutate Higgses into real rigid photons by Higgs collision. After about 1 cm this rigid photon will click back as an encoded Higgs field particle which seems to be the base for general Relativity including an extra LASOF ether effect..

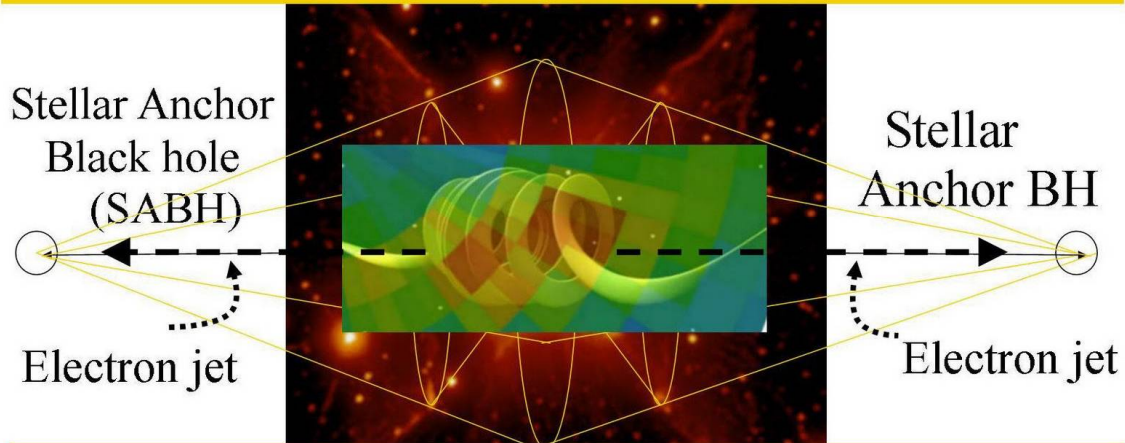
The origine of Double MWC922 interference rings



SABH interference rings with double coned starspot distribution.

Figure 1, The Red Square Planetary nebula MWC922, equipped with double cone structure of expelled material including trailing starspots (Micro Black Holes). There are FOUR cones (figure 3) 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.

MWC922 with additional electron jets like Cygnus-A and the resulting e-magnetic ribbon of protection.



If the sun is a remnant of an open star cluster, then only comparable systems are electromagnetic protected. (author: Leo Vuyk)

Figure 2, The same MWC922 image with additional representation of the so called magnetic ribbon of protection for Galaxy Cosmic Rays, as is found to be present around the Sun by NASA's Interstellar Boundary Explorer (IBEX).

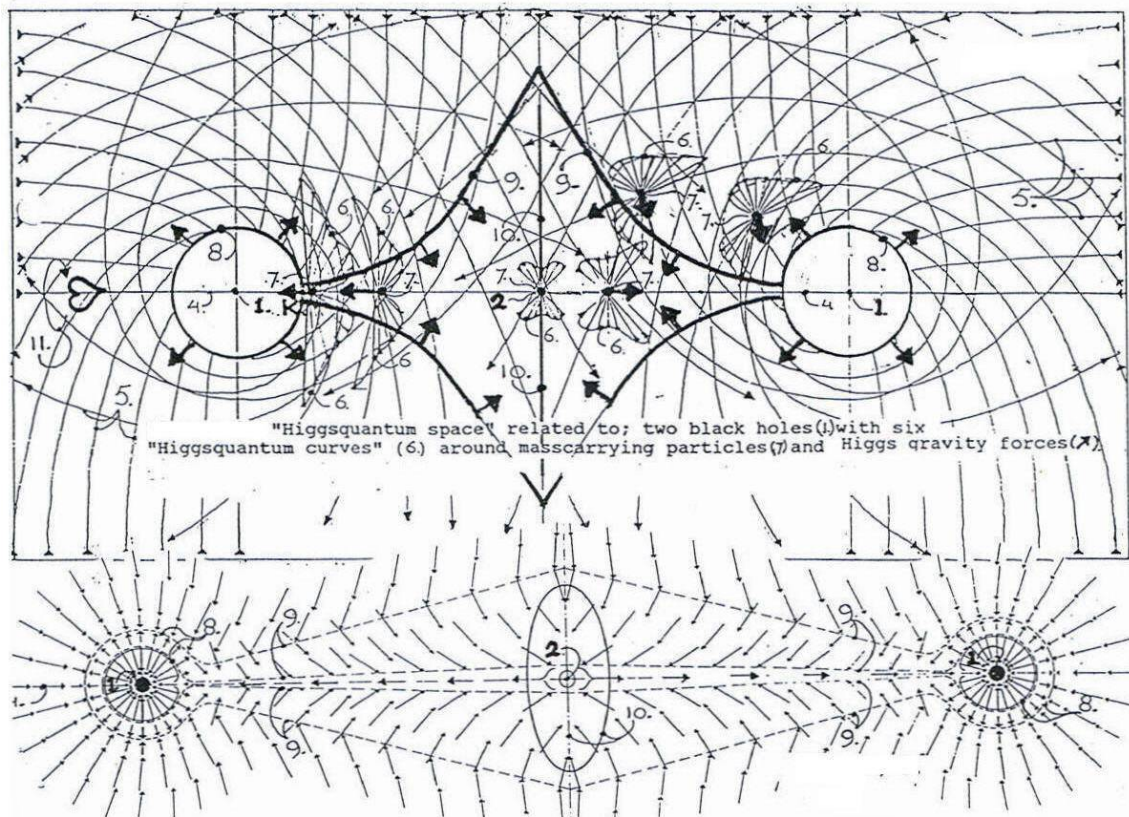


Figure 3, Higgs Vacuum structure around a set of two Black holes, as is found to be present around Planetary nebula and early Galaxies and Herbig Haro objects.

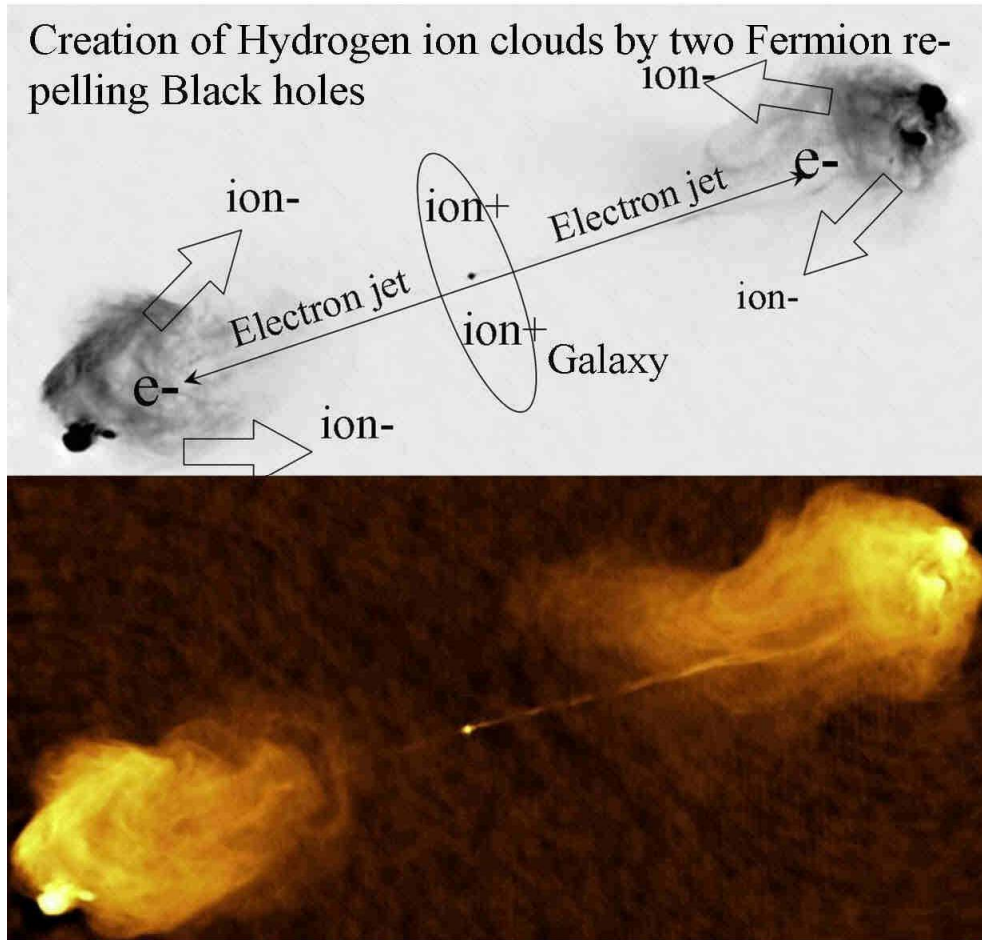


Figure 4, Cygnus A, equipped with Galaxy Anchor Black Holes (GABHs) clear electron jets and Hotspots, showing ionized gas production.

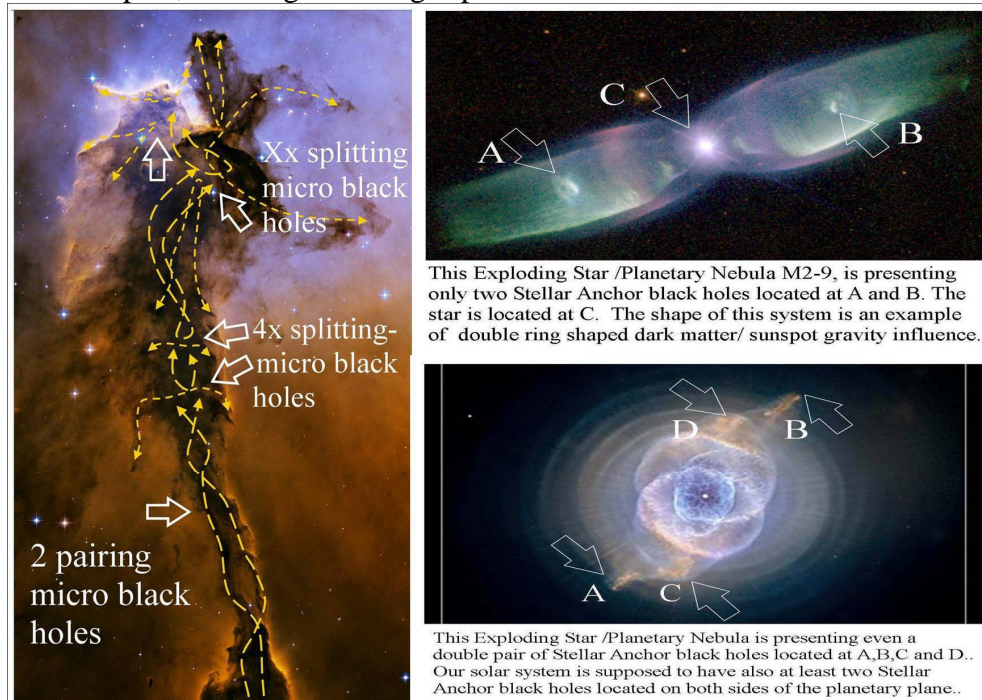
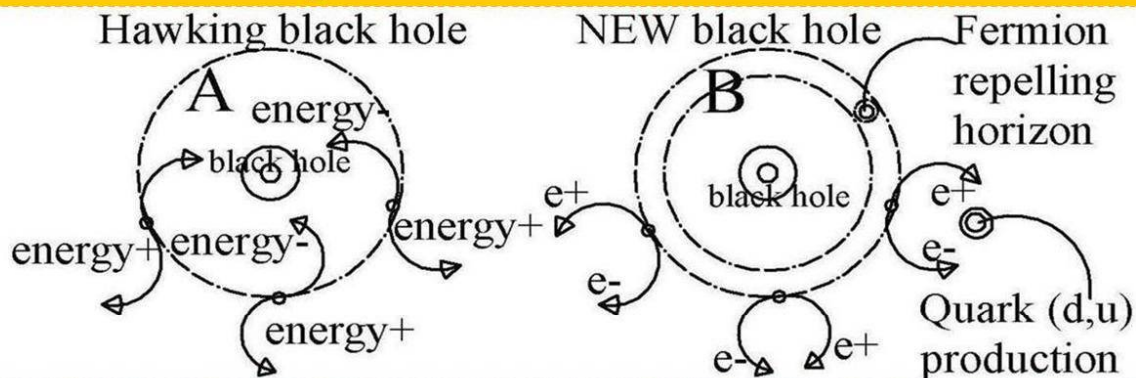


Figure 5, The Spire Eagle nebula, with two Planetary nebula, examples of the importance of black holes in the universe.

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>

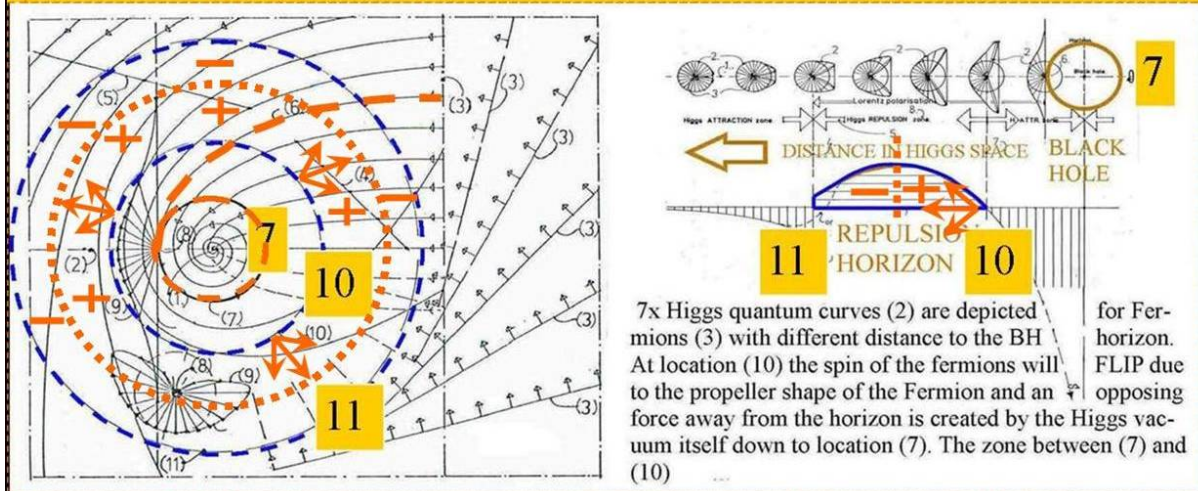


Figure 6, Principle of Fermion repulsion around a black hole according to Quantum FFF theory..

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

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.

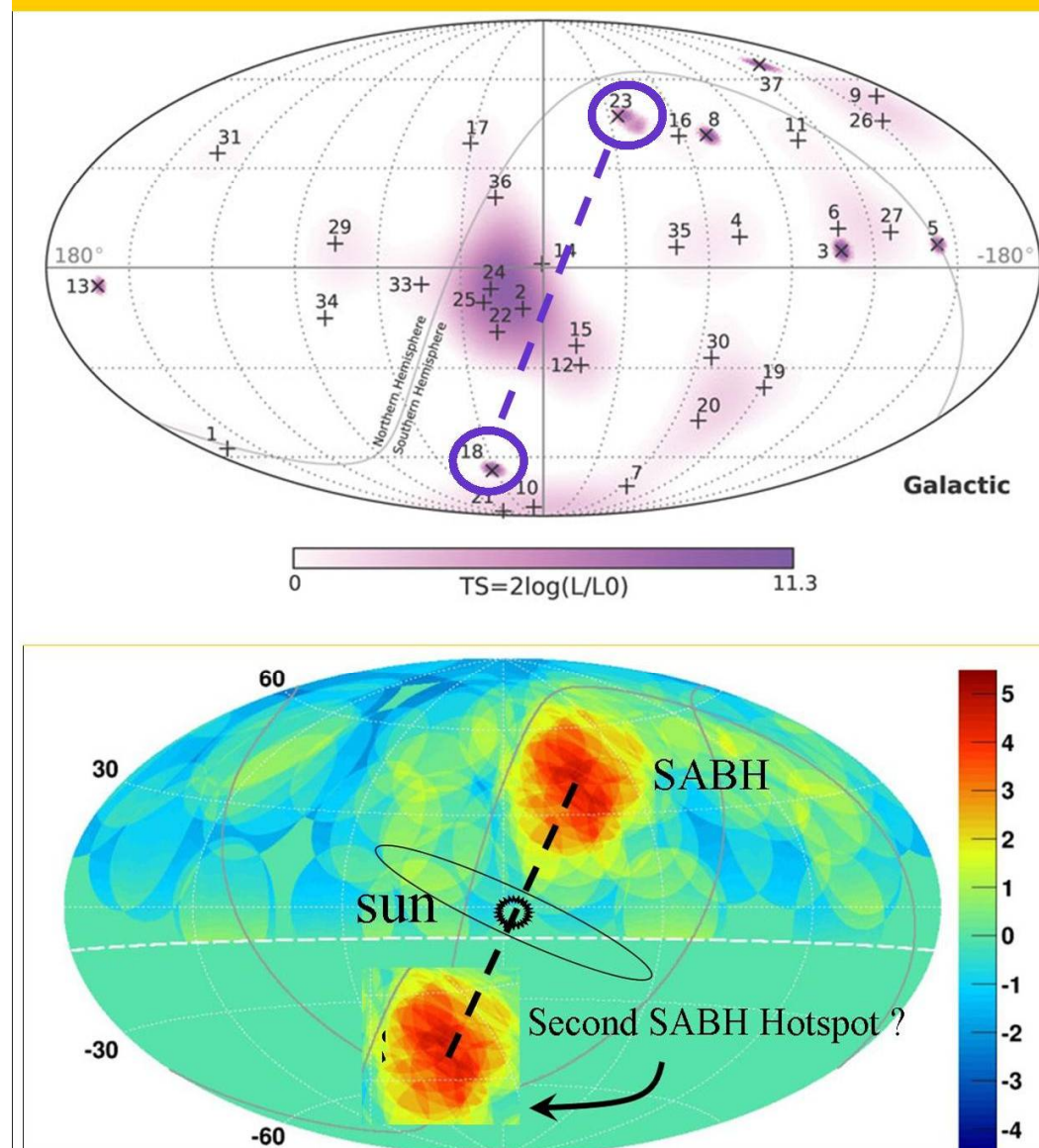


Figure: 7, NEW: 9-july 2014. first evidence for a Solar Anchor Black Hole. A hotspot for powerful cosmic rays found under the Big Dipper, by the University of Utah. The mysterious source of cosmic rays is also reason to look at the southern hemisphere to observe the opposing second Stellar Anchor Black Hole (SABH) (Cosmic ray production by NEW black hole paradigm according to Quantum-FFF Theory).

<http://vixra.org/pdf/1104.0002v1>

and <http://www.sciencedaily.com/releases/2014/07/140708092910.htm>

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)

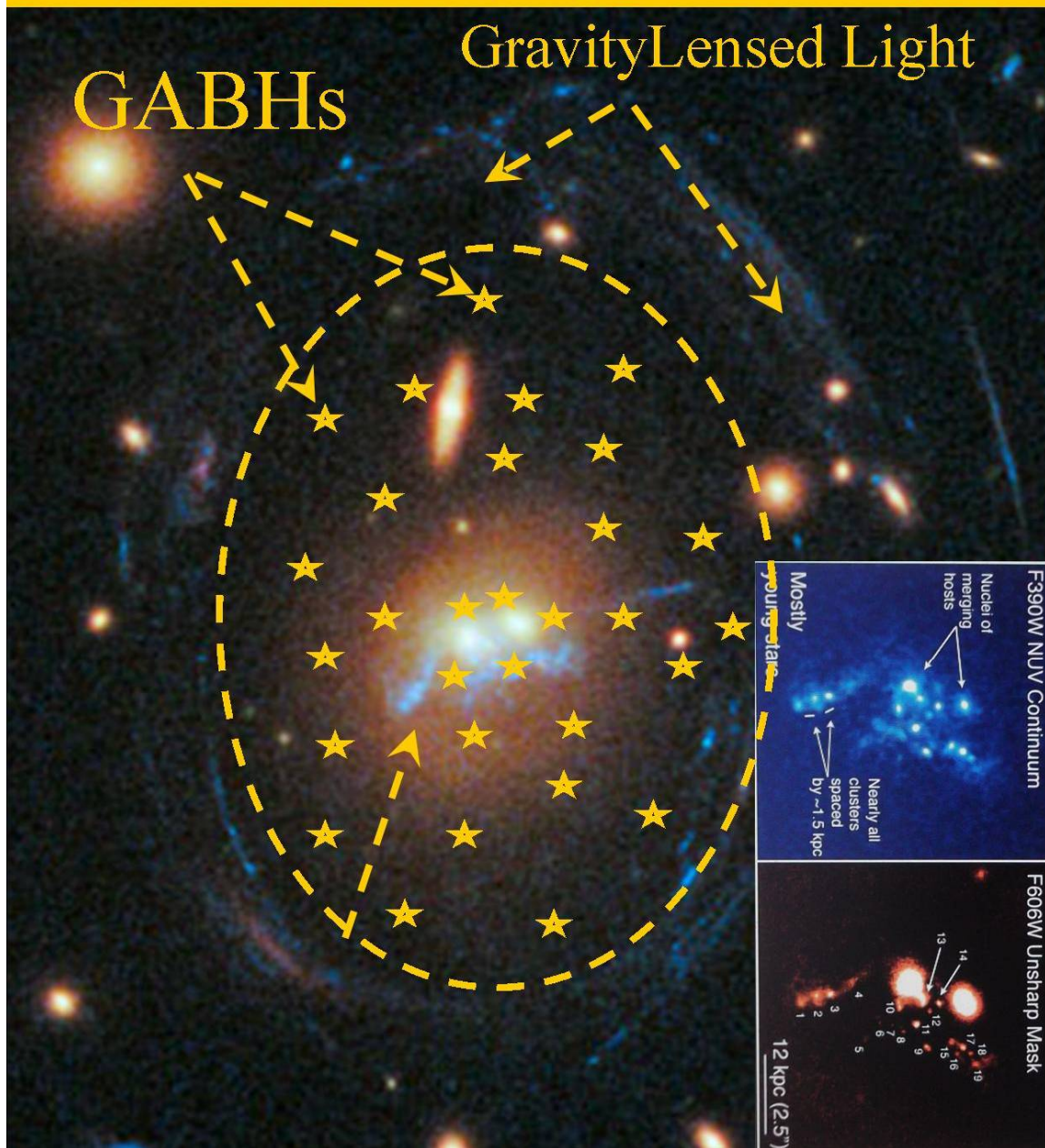


Figure: 8, Gravity lensed light through central hole in the globular Shell of Dark matter Black Holes or Galaxy Anchor Black Holes (GABHs). The absence of GABHs in the centre is supposed to do the job.

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

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.

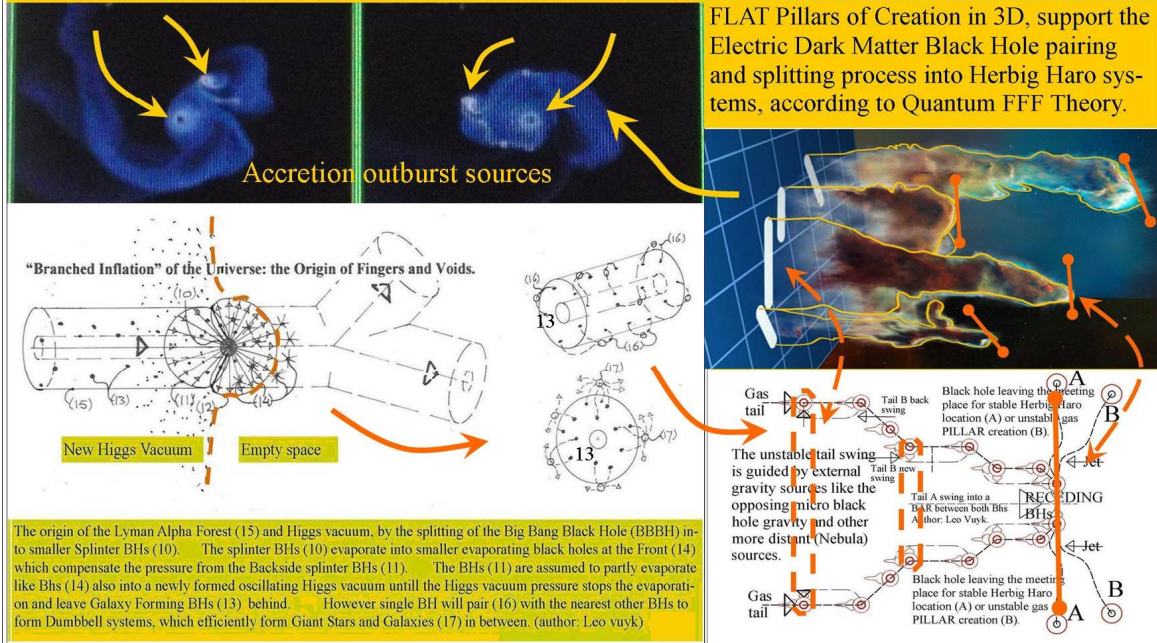


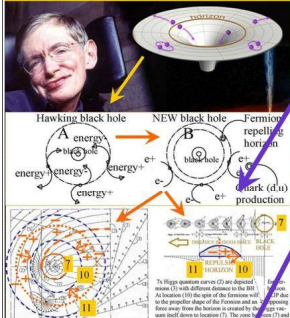
Figure 9,

The NEW Plasma Creating Electric Black Hole versus the Hawking Black Hole, according to Quantum FFF Theory, the origin of Comet - Sunspot - BL mystery.

The new paradigm of star/galaxy formation and dying.

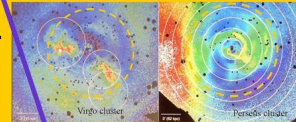
Based on the new paradigm of Fermion repelling and creating black holes.

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)

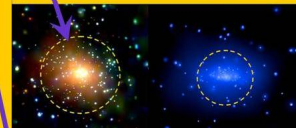


Giant galaxies die from the inside out! Star formation shuts down in the centers of elliptical galaxies first.

According to Quantum FFF Theory, Galaxy- and Cluster black hole hierarchy is the origin of dying galaxies where star formation in the center stops. X-ray 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. Supernova black holes large enough to form Herbig Haro systems with star formation in between. The result: Dying 'red and dead' galaxies as the start of Universal contraction and collapse (Big Crunch) in a cyclic multiverse.



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



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 of expanding BB dark matter black holes process creating the Lyman Alpha forest of galaxy distributions. In the expansion of BB 'spines' (14) this oscillating field vacuum is created by the so called 'branched inflation'. Reheated black hole centers (13) do not evaporate by Higgs vacuum pressure, but create plasma 'tails' (15) along them away from the center of gravity in search for a partner to form a Herbig Haro system (16,17).

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

Branded Alfvén current circuits are responsible for magnetic fields inside Herbig Haro star forming systems according to Quantum FFF Theory. Here, the Carina Paw Nebula, made by Spitzer Space Telescope. The magnetic fields influence star formation on a variety of scales, from hundreds of light-years down to a fraction of a light-year. The large gas globules are supposed to harbor the main Electric Dark Matter Black Holes.

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

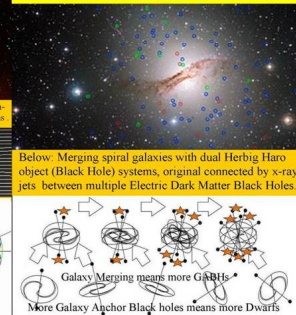
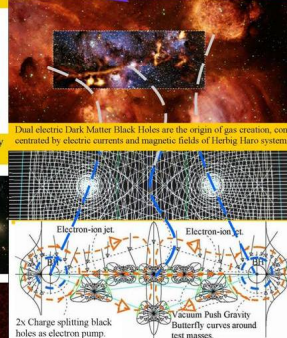
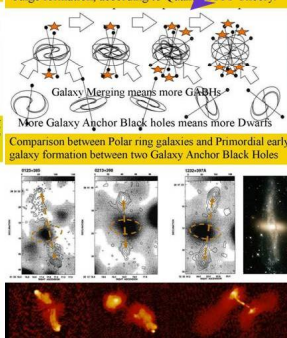
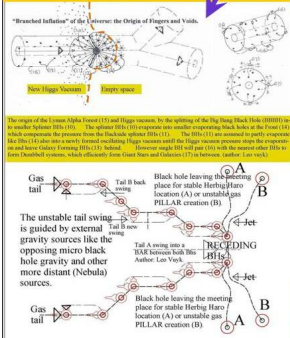


Figure 10,

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.

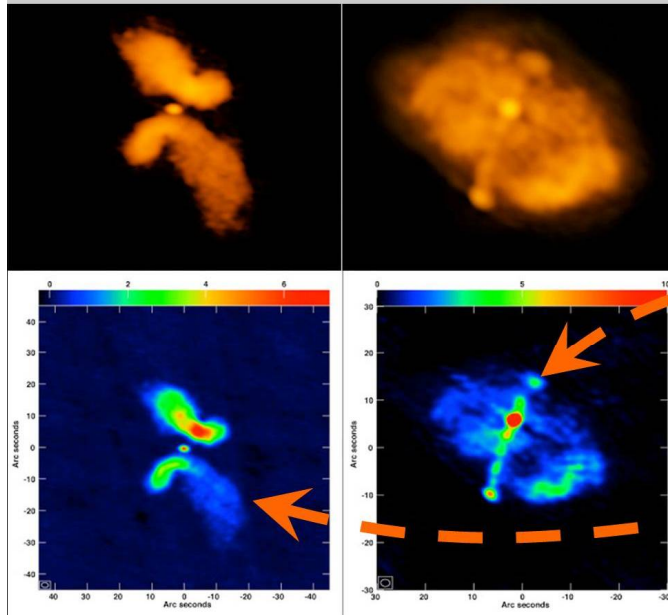
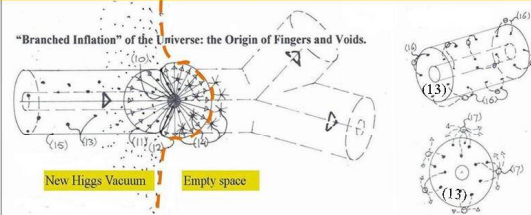
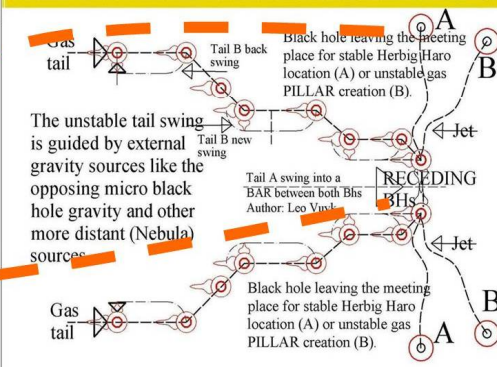


Figure 11,

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 "splitters" (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 (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)



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.

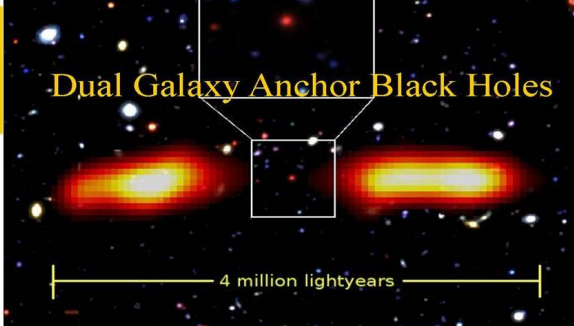
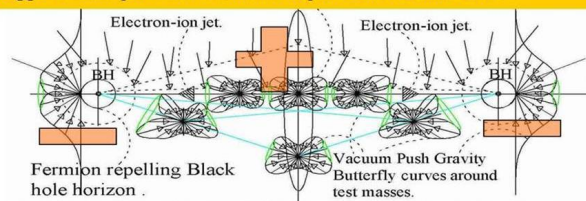
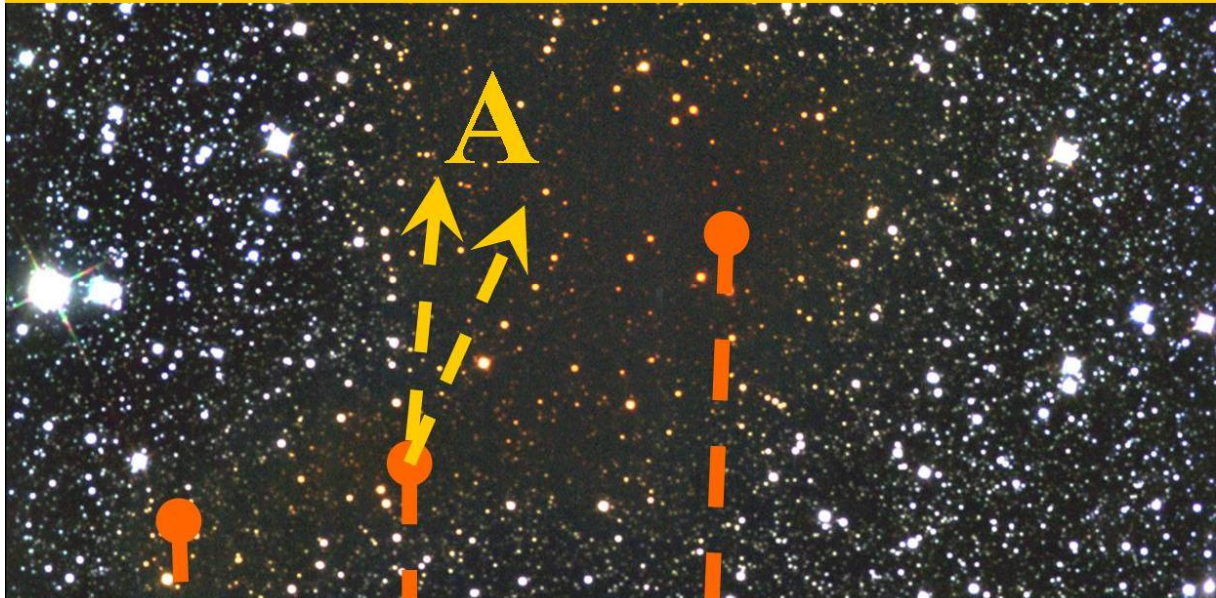


Figure 12,

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)

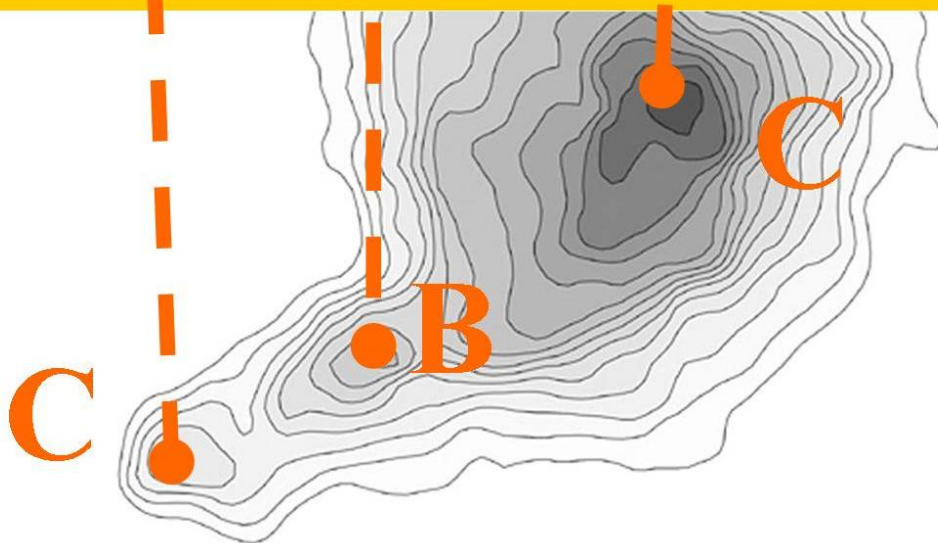


Figure 13,

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: Babcock 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.

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Conclusion,

Quantum FFF Theory is based on Non-Local Realism. The CP(T)-symmetrical raspberry shaped multiverse (with 8-12 berries) is non local instant connected down to each quantum. Each quantum can be visualised as a deformed 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.

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