

Dual Solar Anchor Black Holes or Herbig Haro hotspots, the origin of quick star formation.

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Abstract,

Function Follows Form in Quantum FFF Theory.

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 Black Hole, (BH) 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 that this 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 black holes. They will be called Galaxy Anchor Black Holes (GABHs)

Introduction.

New Physics is supposed to be obtained by the architecture of Quantum FFF (Function Follows Form) Theory. Characteristics:

1: The clear MICROSTRUCTURE or the 3D FORM of 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, Gravitons act with less pressure on Fermions than the Axion Higgs vacuum (dark energy) and everything is entangled by instant communication between at least two anti-copy universe or Raspberry multiverse, being entangled since the big bang.

4: 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..

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

FUNCTION FOLLOWS FORM in Quantum FFF-Theory. The Microstructure of elementary particles, is supposed to be the origin of functional differences between Higgs- Photon- and propeller shaped Fermion particles.

Something small is missing in mainstream physics: a NEW splitting and pairing Massless black hole, the origin of all dark matter, Ball Lightning Micro Comets , Comets, Sunspots up to Galaxy external Anchor Black Holes and the Big Crunch of the CP symmetric pulsating raspberry shaped multiverse.

The multiverse 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 H2 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 H2 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.

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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 are 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 are 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, (fig. 6) 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. (figure 1)

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".

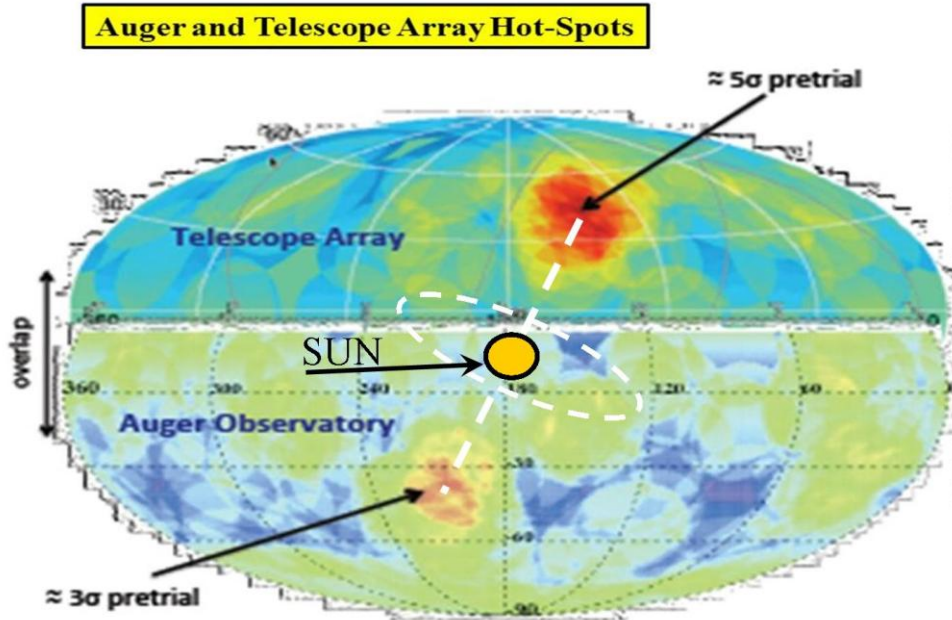
John Bell argued that the motion of mass related to the surrounding vacuum reference frame, should originate real

"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.

Two Stellar Anchor Black Holes (Herbig Haro hotspots) at both polar sites of the sun. According to Quantum FFF Theory.



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Figure 1, Two Stellar Anchor Black Holes (Herbig Haro hotspots) at both polar sites of the sun. According to Quantum FFF Theory.

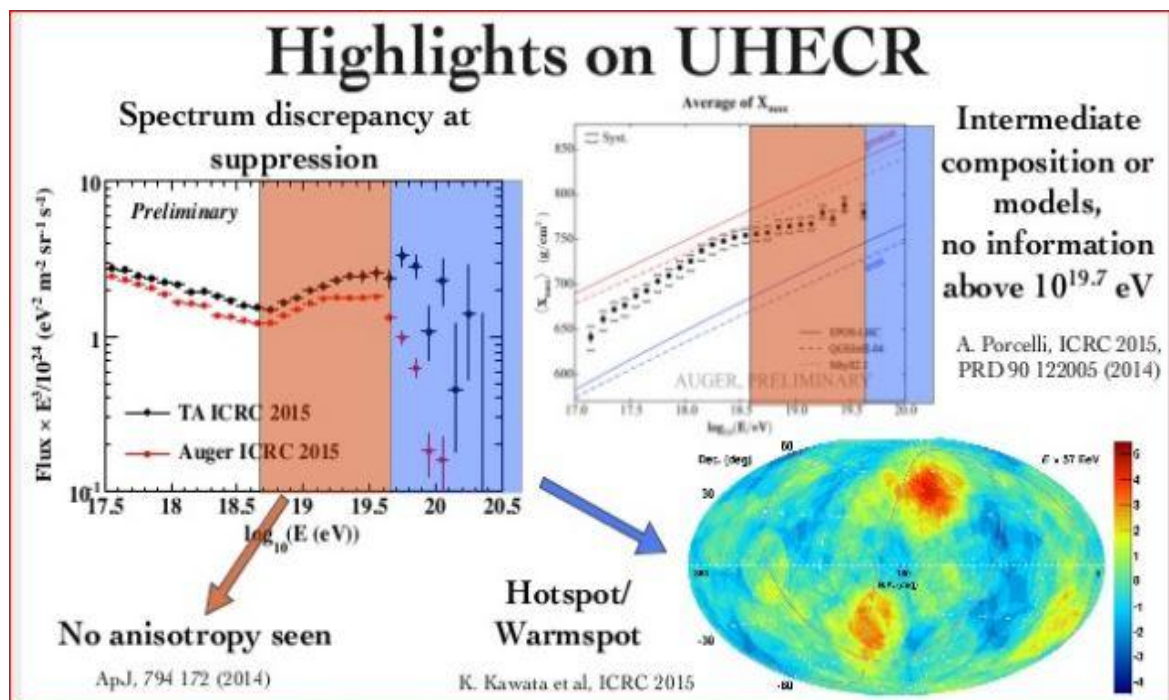


Figure 2, UHECR = Ultra High Energy Cosmic Radiation by A Percelli ICRC 2015. PRD90122005 (2014) and A. Kawata et al. ICRC 2015.

The origine of Double MWC922 interference rings

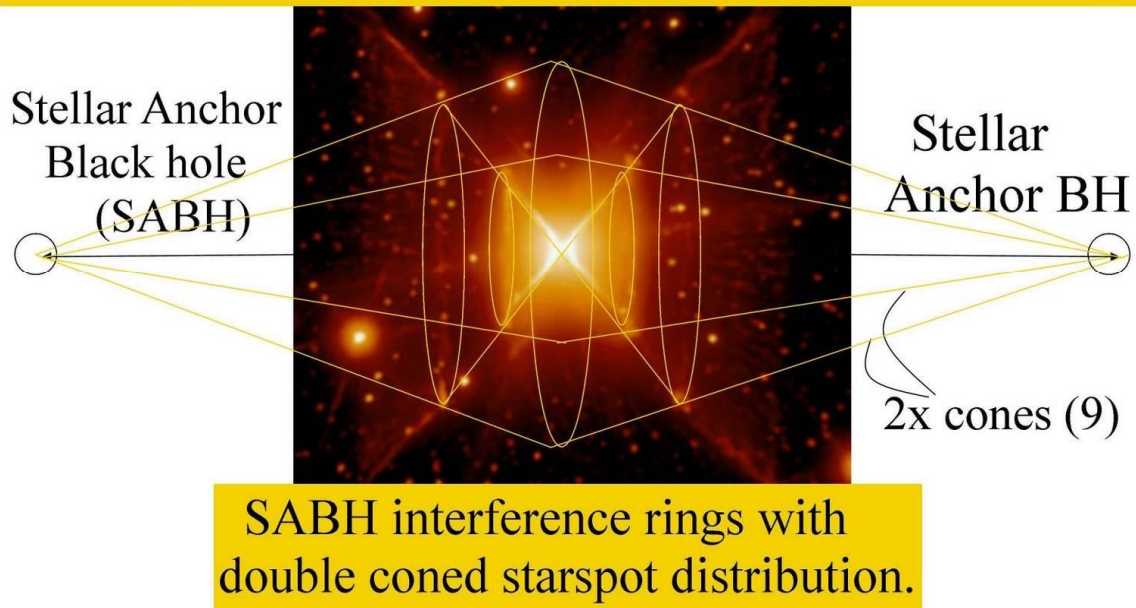


Figure 3, The Red Square Planetary nebula MWC922, equipped with double cone structure of expelled material including trailing starspots (Micro Black Holes). There are FOUR cones of interferences originated by the two Stellar Anchor black holes (SABHs). These four cones seem to interfere with the TWO cones of expelled material of the star, leading to FOUR rings of interference.

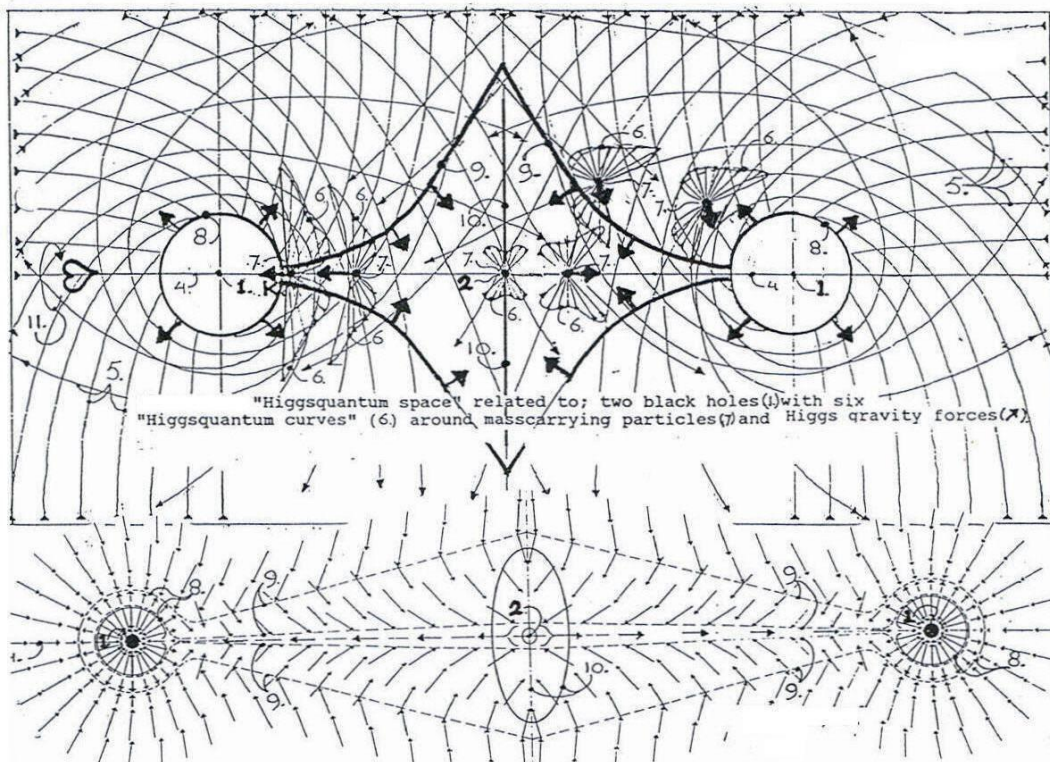


Figure 4, Axion Higgs Vacuum structure around a set of two Black holes, as is found to be present around Planetary nebula and early Galaxies and Herbig Haro objects.

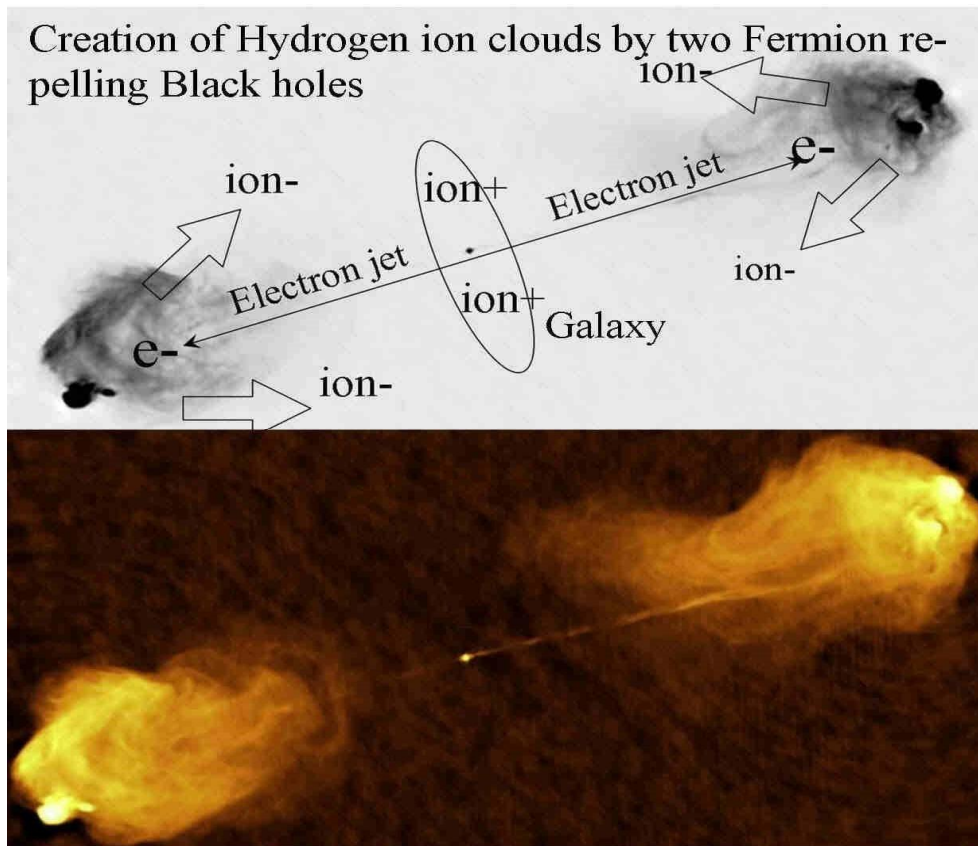


Figure 5, Cygnus A, equipped with Galaxy Anchor Black Holes (GABHs) clear electron jets and Hotspots, showing ionized gas production.

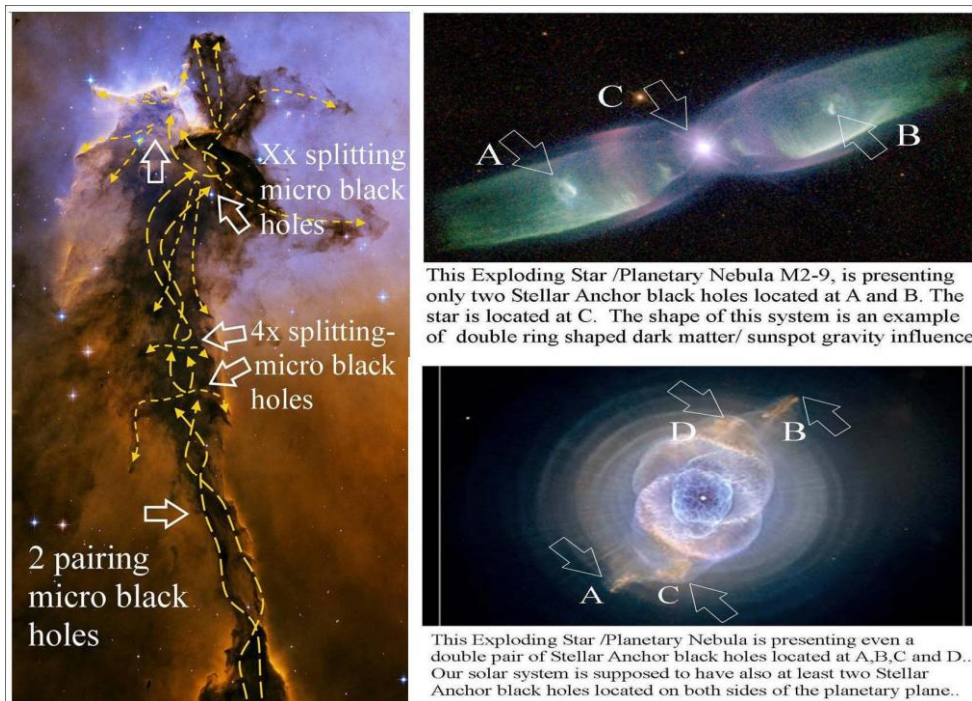
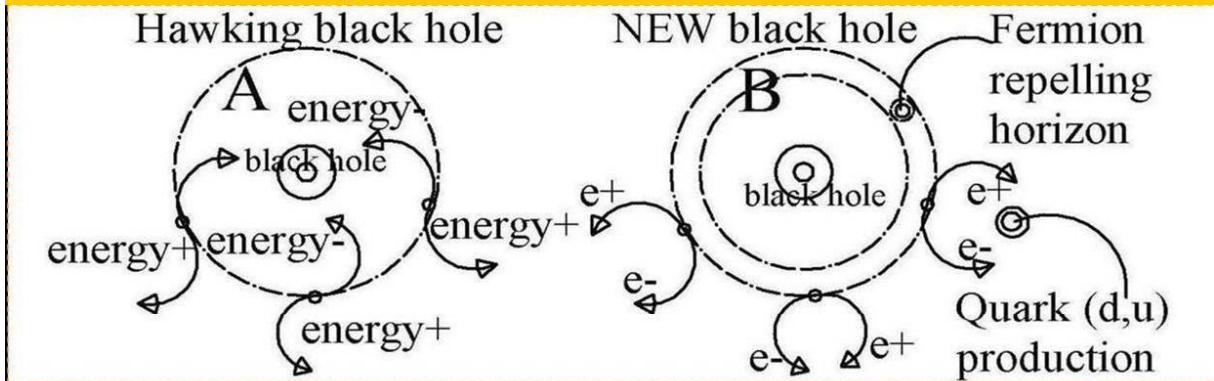


Figure 6, The Spire Eagle nebula, with two Planetary nebula, examples of the importance of black holes in the universe.

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>

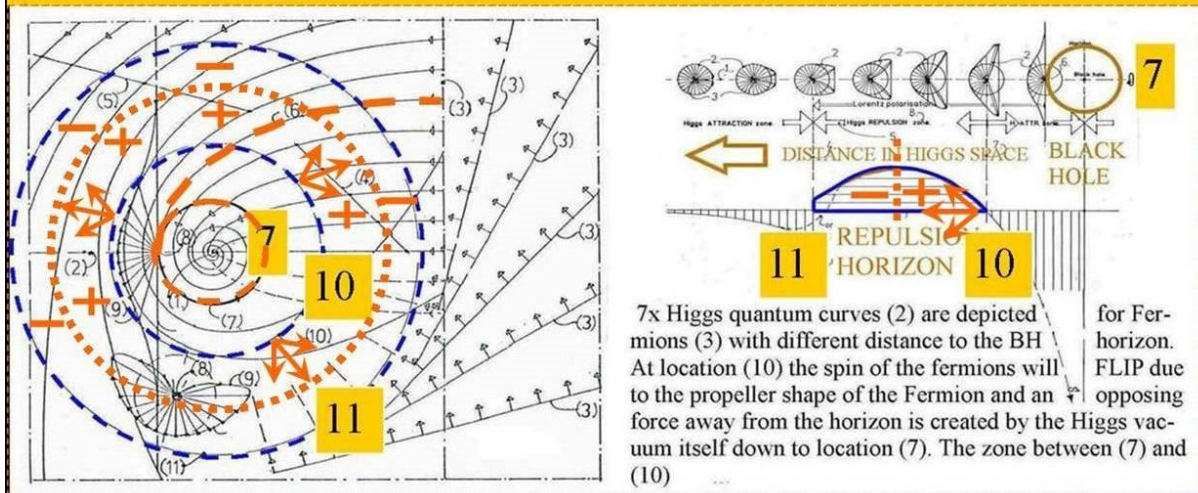


Figure 7, Principle of Fermion repulsion around a black hole according to Quantum FFF theory..

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.

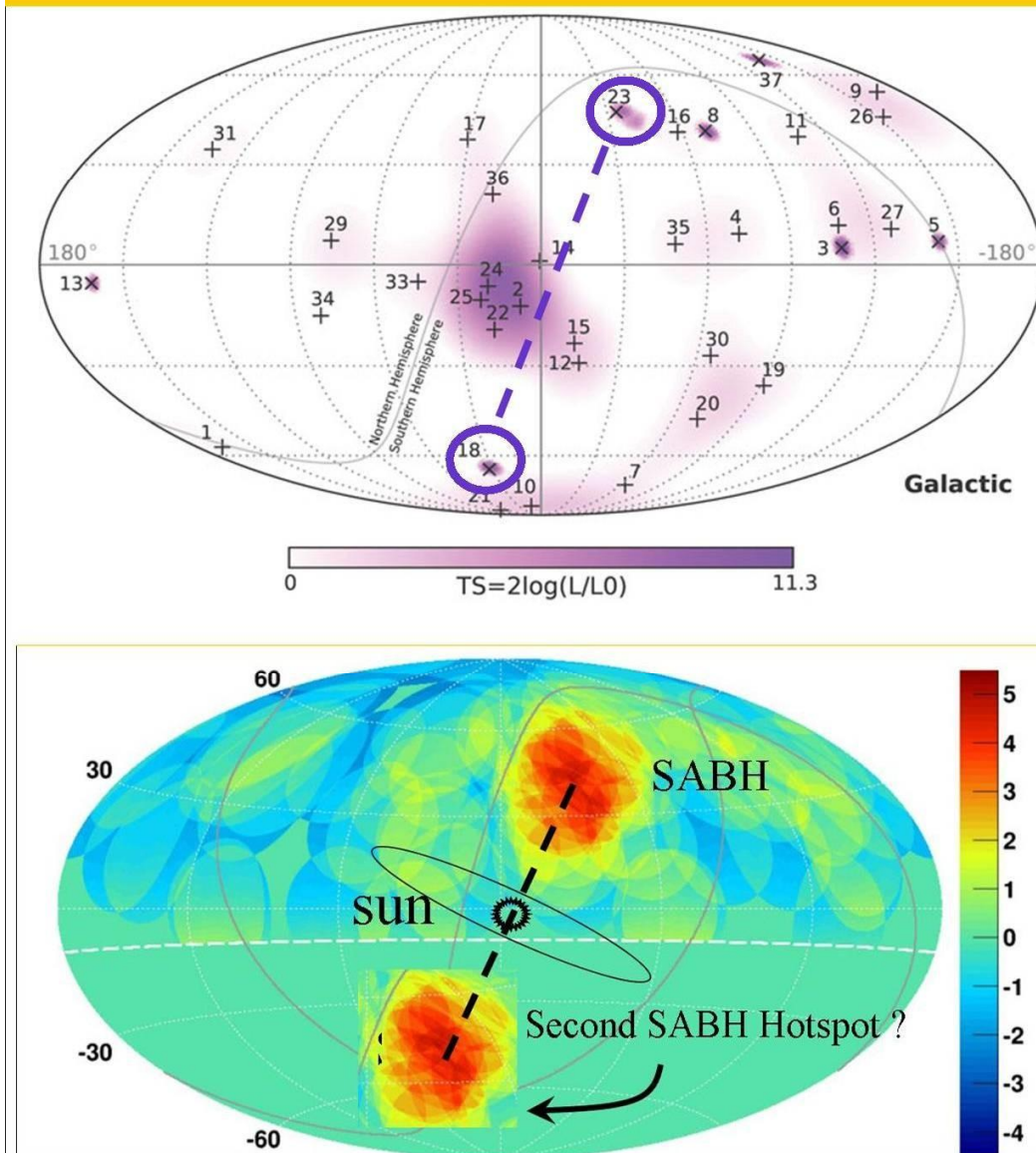


Figure: 8, 9-july 2014. first evidence for the first Solar Anchor Black Hole. (SABH) A hotspot with powerful cosmic rays found under the Big Dipper, by the University of Utah. Now (2017) however the southern counterpart (the second SABH hotspot) is found, see figure 1.

See also: <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)

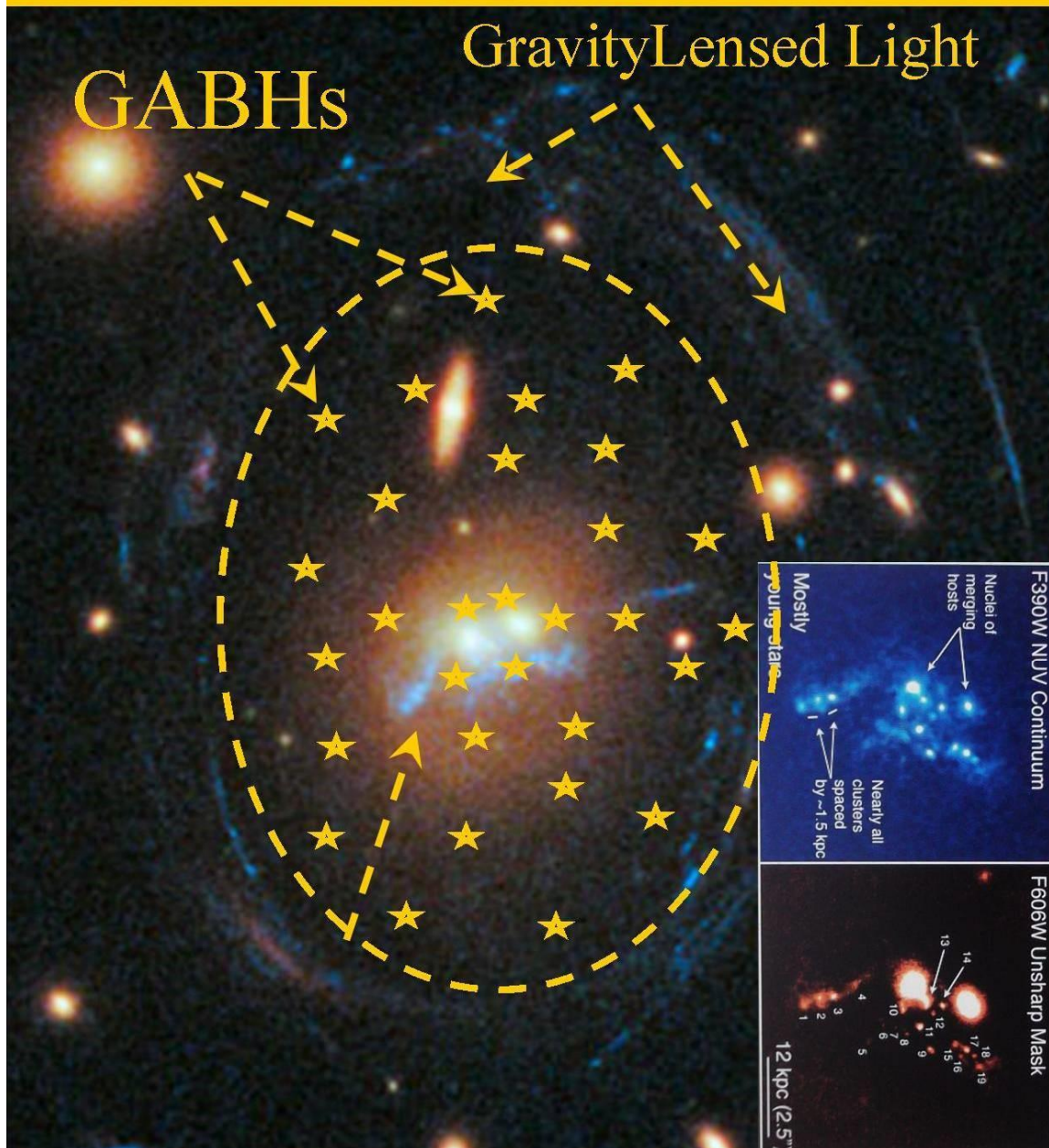


Figure: 9, Gravity lensed light through central hole in the globular Shell of Dark matter Black Holes or Galaxy Anchor Black Holes (GABHs). The absence of GABHs in the centre is supposed to do the job.

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

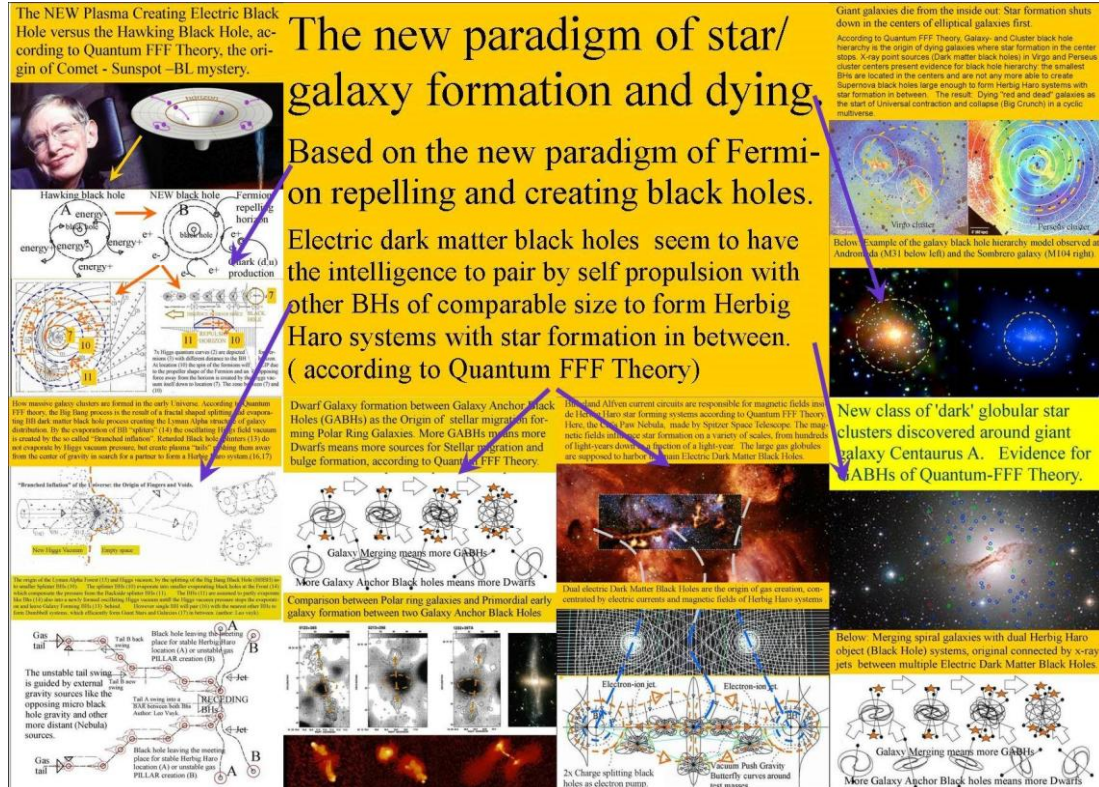


Figure 10,

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.

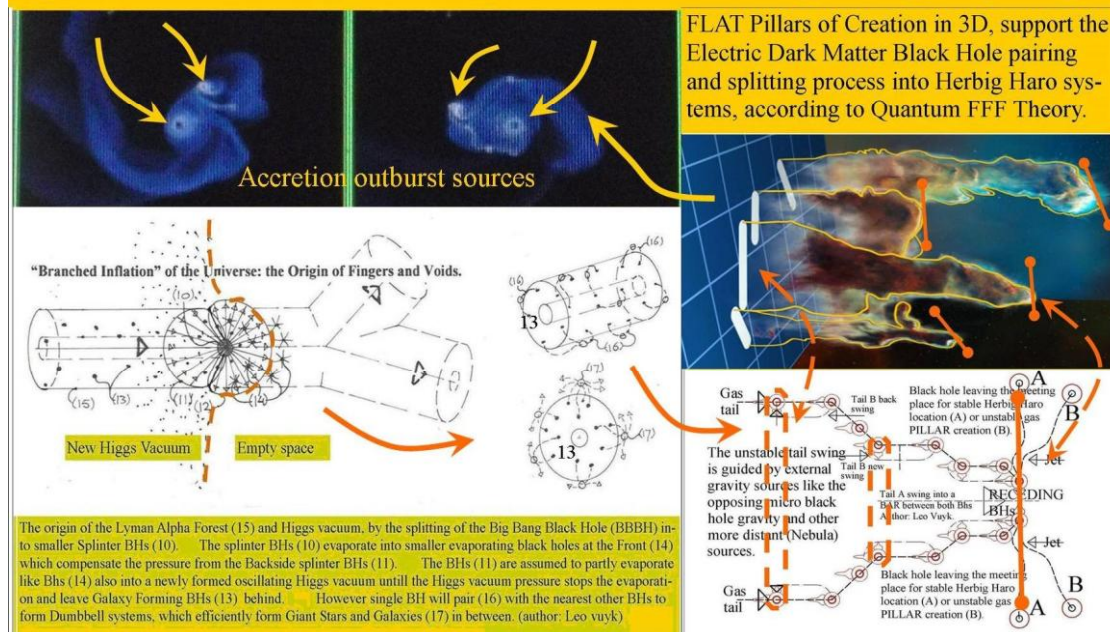


Figure 11,

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.

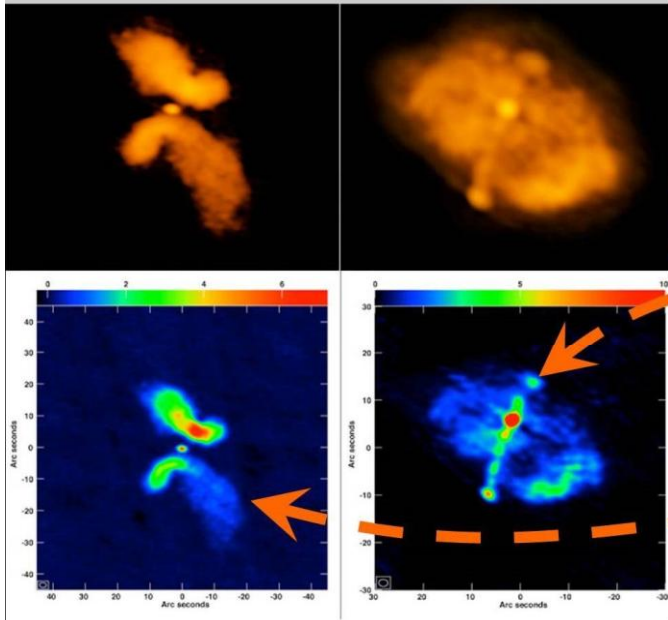
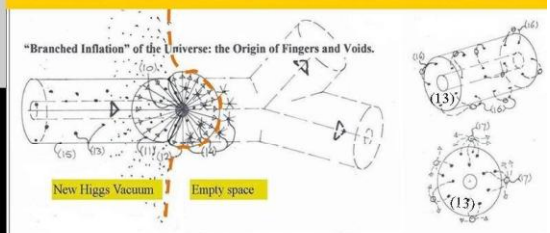
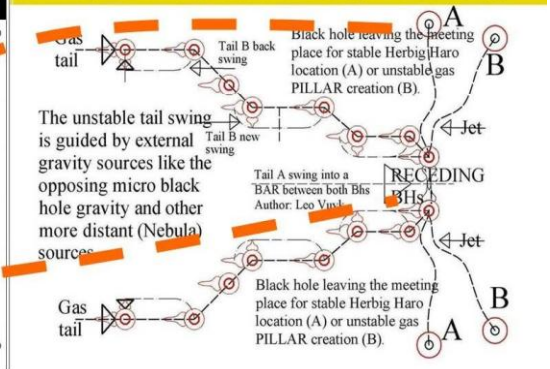


Figure 12,

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)



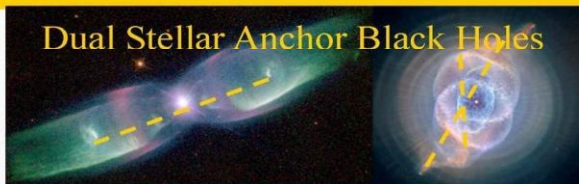
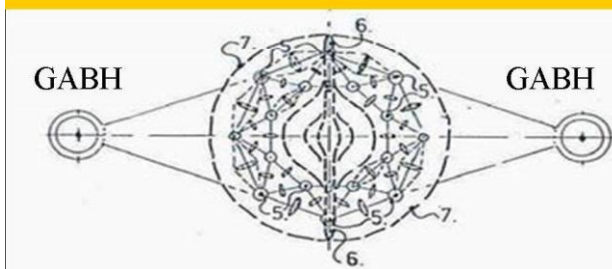
The origin of the Lyman Alpha Forest (15) and Higgs vacuum, by the splitting of the Big Bang Black Hole (BBBH) into smaller Splinter BHs (10). The splinter BHs (10) evaporate into smaller evaporating black holes at the Front (14) which compensate the pressure from the Backside splinter BHs (11). The 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 Alfven current circuits are supposed to be the result. Higgs-Casimir pressure vectors are depicted above and below.

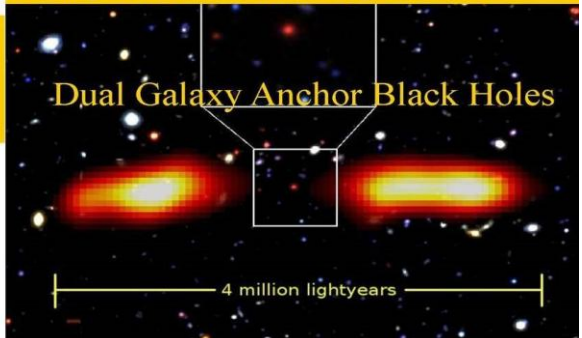
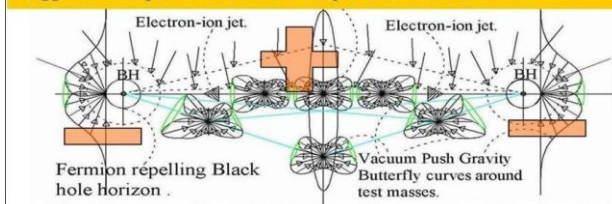
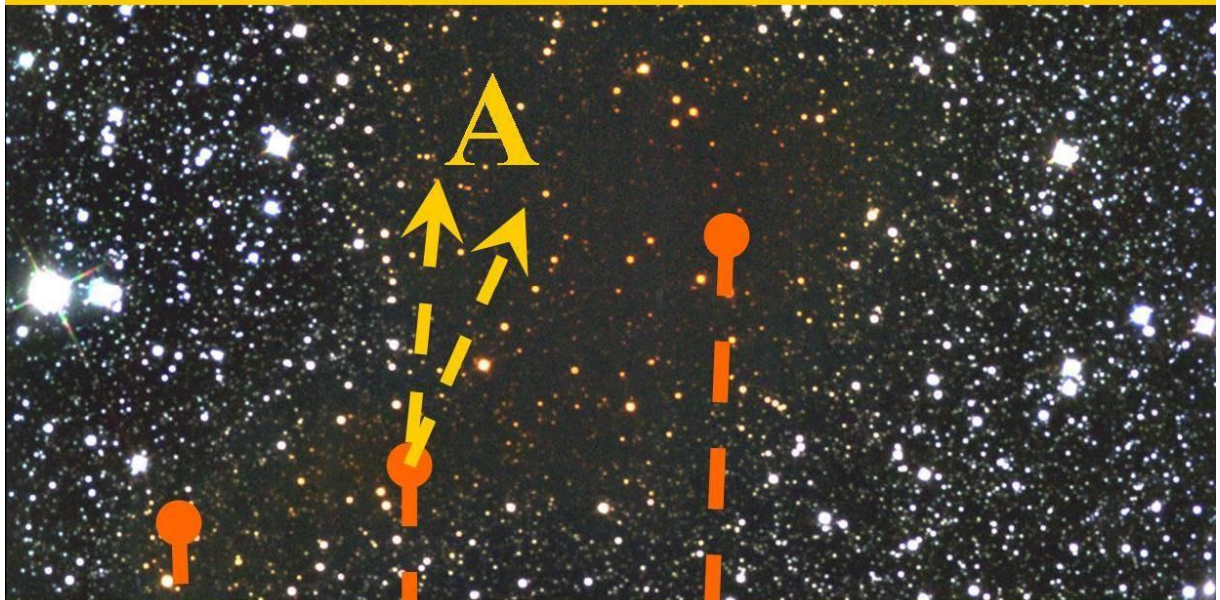


Figure 13,

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)

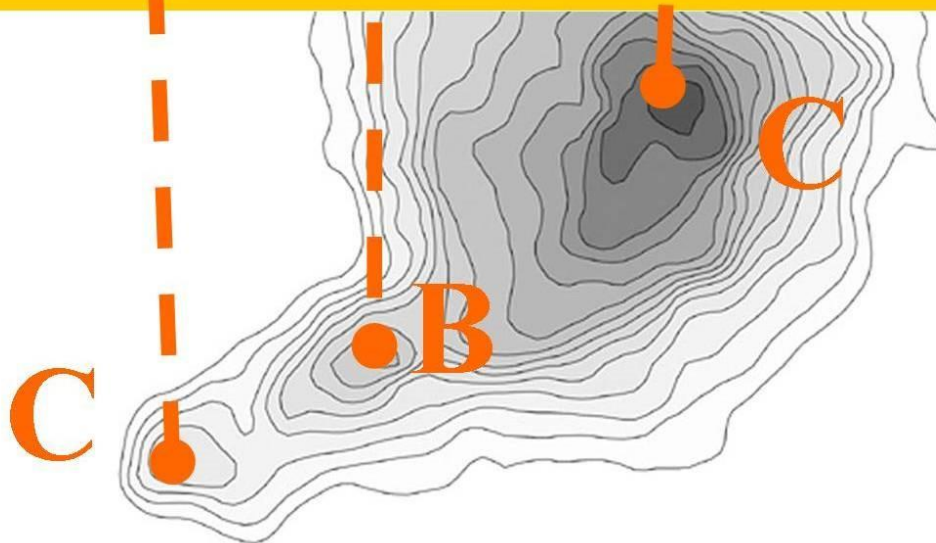


Figure 14,

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 (=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

2x 750GeV + 125 = 1625GeV

Some suggested ring configurations

Some other combinations

2x mirror Symmetric Z particle left (1xElectron+1xPositron,), rightside: 2x mirror A-symmetric W+/- particles. (W-: 2x electron+ 1x Positron, W+: 2x Positron and 1x Electron)

Figure 15,

'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 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.

Example: the Eagle nebula splitting

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?

Markarian 231

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

Fermion repulsion by Spins of BH
Fermion production
Stellar wind
Gas tail
Tail B back swing
Tail A now swing
Tail A swing into a BAR between both BHs
Tail B now swing
Black hole leaving the meeting place for stable Herbig Haro location (A) or unstable gas PILLAR creation (B)

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

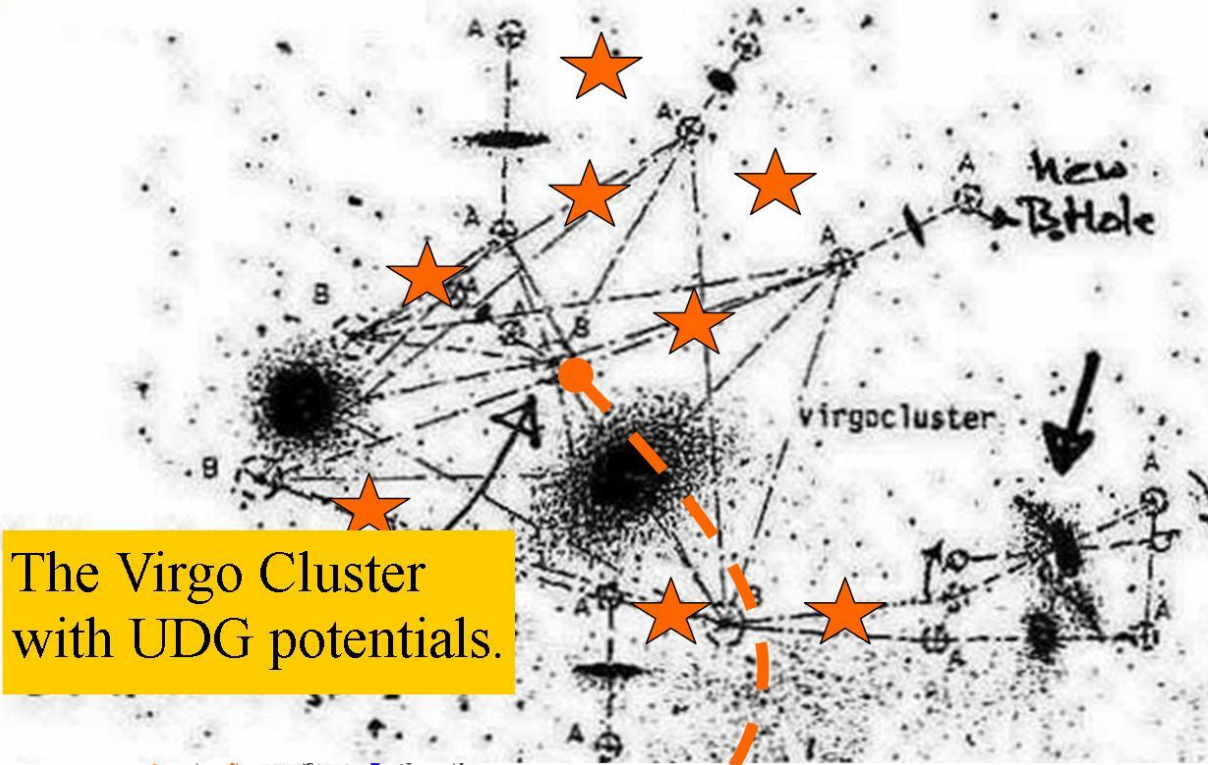
The direction of the pushing Plasma Tail is influenced by opposing stellar winds AND neighbouring gravity objects like other pairing and Splitting black holes.

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

Cygnus A

Figure 16.

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



The Virgo Cluster with UDG potentials.

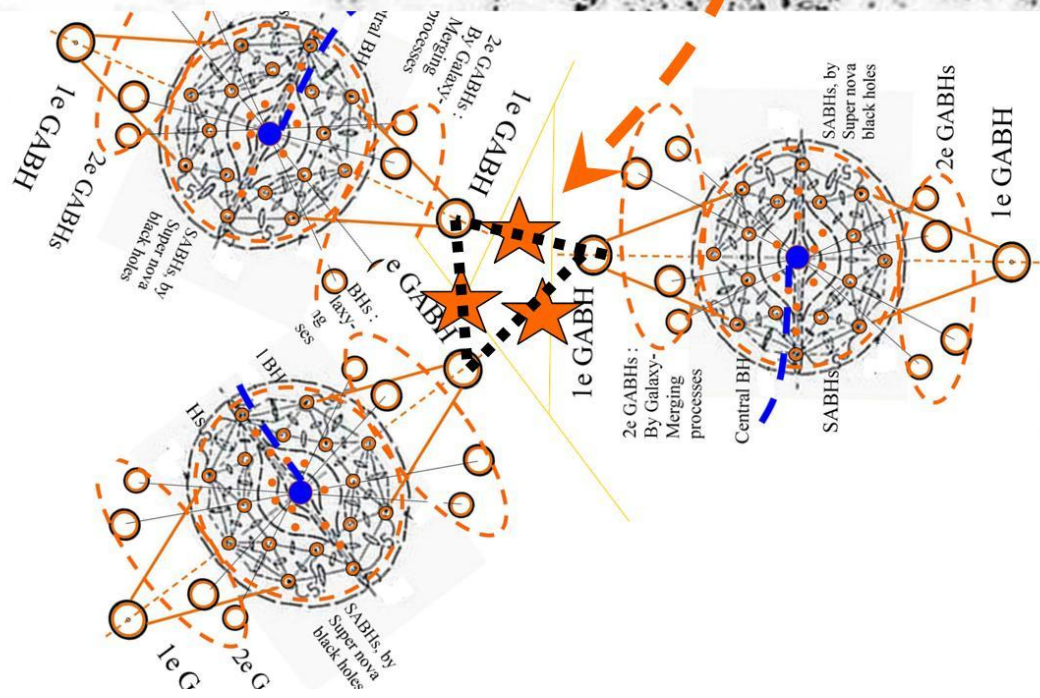


Figure 17.

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.

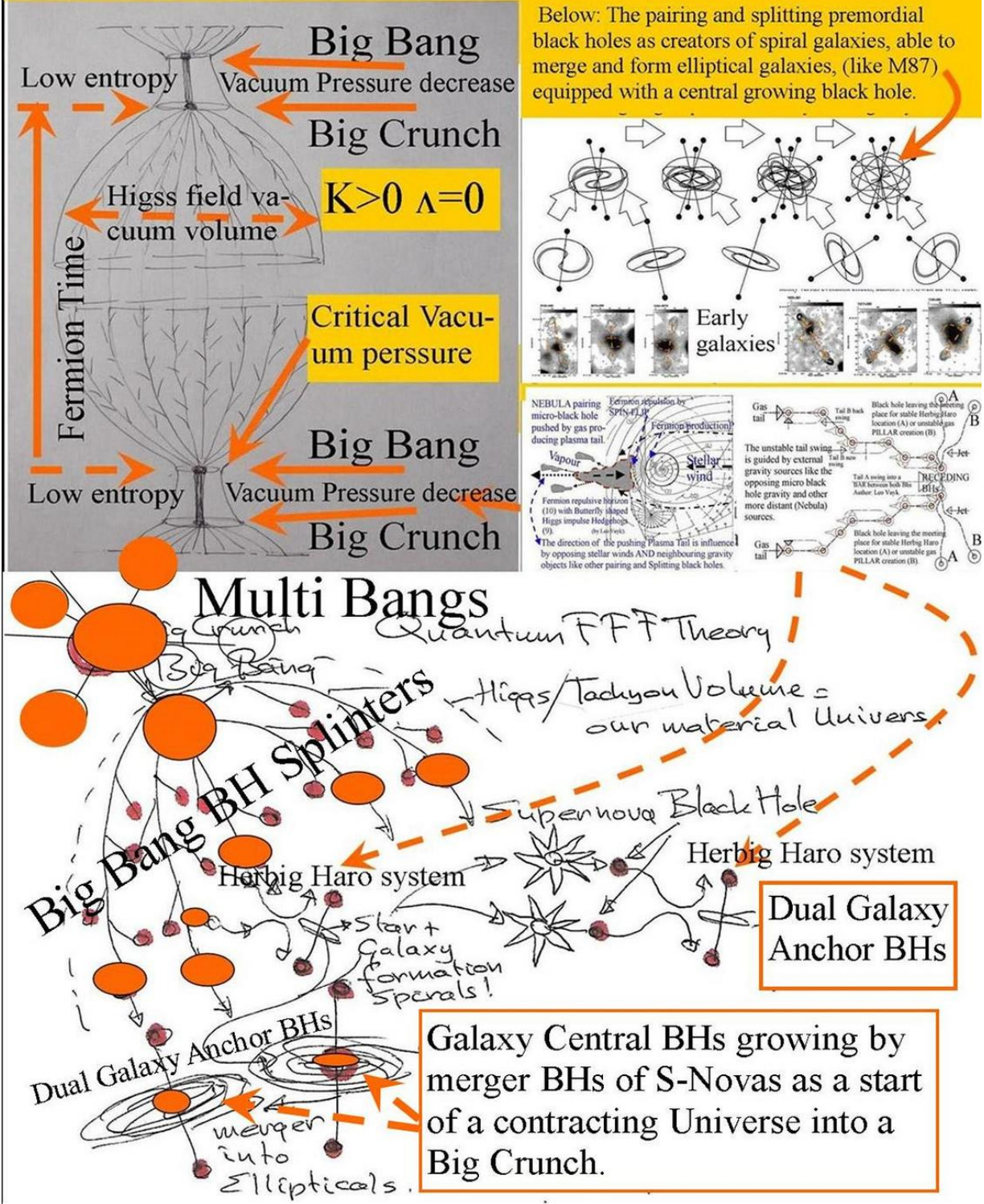


Figure 18,

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 af 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 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. 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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References;

[97] 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-galaxies-far-far-away>

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