

The Origin of “Ultra Diffuse Galaxies” in Galaxy Cluster Centers and the start inside the contracting Abell 520.

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Abstract,

The origin of “Ultra Diffuse Galaxies” (UDGs) in galaxy cluster centers, according to Quantum FFF Theory, is assumed to be based on very stable concentrations of multiple external electric dark matter black hole (EDMBH) configuration located around the UDGs. The start of such a UDG galaxy we may even observe inside the Galaxy contracting cluster Abell 520.

"We asked ourselves how the sensitive ultra-diffuse galaxies could survive at all in an environment as unsettled as a galaxy cluster," explains Carolin Wittmann, first author of the study. <https://phys.org/news/2017-08-galaxies-heart-gigantic-galaxy-cluster.html>

Quantum FFF Theory seem to have the answer: by different Fermion repelling Black Hole functions called EDMBHs (Electric Dark Matter Black Holes.) crowded over the centers of these galaxy clusters.see: <http://vixra.org/pdf/1707.0224v2.pdf>

All galaxies are equipped with external so called GABHs (Galaxy Ancho Black Holes). Thus, in the center of galaxy clusters, these GABHs are crowding all around and they form a geometrical network of Dark Matter Galaxy Anchor Black Holes, polarizing the vacuum in between into multiple directions leading to Ultra Diffuse galaxies in the centers.

In between TWO BHs there is a vacuum sucking for plasma to form spiral galaxy formation, as we learned in the early universe by Herbig Haro systems with only two GABHs.

However in between three or more BHs there is a much more complex vacuum present sucking for plasma creating UDGs, diffuse open galaxies, just like our Magellan dwarf galaxies.

According to Quantum FFF Theory, (Function Follows Form) early Galaxies have growing potential by the number and size of external primordial dark matter black holes initially formed as big bang splinters able to pair into Quasars with stars-galaxies in between the dual

black hole hotspots, called Galaxy Anchor Black Holes (GABHs) which can merge with other galaxy-systems into complex spirals and elliptical. Irregular galaxies and Dwarf galaxies are supposed to be the result of secondary star forming interaction between GABHs after a merging process.. Later after Supernova black hole production these smaller black holes are able to pair as hotspots or “bow shocks” into Herbig Haro open star cluster systems,. If no galaxy merger candidates are available in the neighborhood, the galaxy will soon reach a maximum size and die by the merging of smaller black holes into the central black hole.. Also according to Quantum FFF (Function Follows Form) Theory, all star forming molecular clouds are the result of one or more Herbig Haro systems, equipped with so called dual hotspots which are assumed to be the result of dual new physics “electric dark matter black holes” in contrast with general accepted black hole theories.

Introduction.

According to Quantum FFF Theory, the Big Bang can be described as the explosion of a giant Dark Matter Black Hole nucleus which is assumed to contain all the particles and smaller black hole nuclei of a former multiverse. (fig.5) after a big crunch process. (fig 10)

The smaller exploded black hole splinters are assumed to be responsible for the fractal structure of the universe by splitting further into smaller nuclei to pair and form huge primordial Herbig Haro systems (Quasars) called GABHs (Galaxy Anchor Black Holes) with star and later spiral galaxy formation in the middle between the two stable paired hotspot black holes.(fig. 6)

Later in the galaxy process, it is assumed that these simple spiral galaxies can merge with smaller galaxies and form more complex galaxies with complex configurations of GAHs such as lenticular and elliptical galaxies.

However, spiral galaxies sometimes are located in relative empty galaxy areas, without much merger potential.

As a consequence these galaxies are supposed to remain simple galaxies without much growing potential and form so called “Dead” galaxies (fig. 3)

After supernova explosions of large early giant stars, new black holes are formed which are also able to form smaller dual Herbig Haro systems with smaller star formation in between as a start for the internal structure of the spiral galaxy.

At the same time such a splitting and pairing process is assumed to happen at all scales in the current universe even down to molecular clouds and now also Bok globules.

The origin of small Herbig Haro dual black hole systems is assumed to be the result of proliferation of Star spot black holes inside all sorts of nebula. as observed in most nebula (figure 13.) .

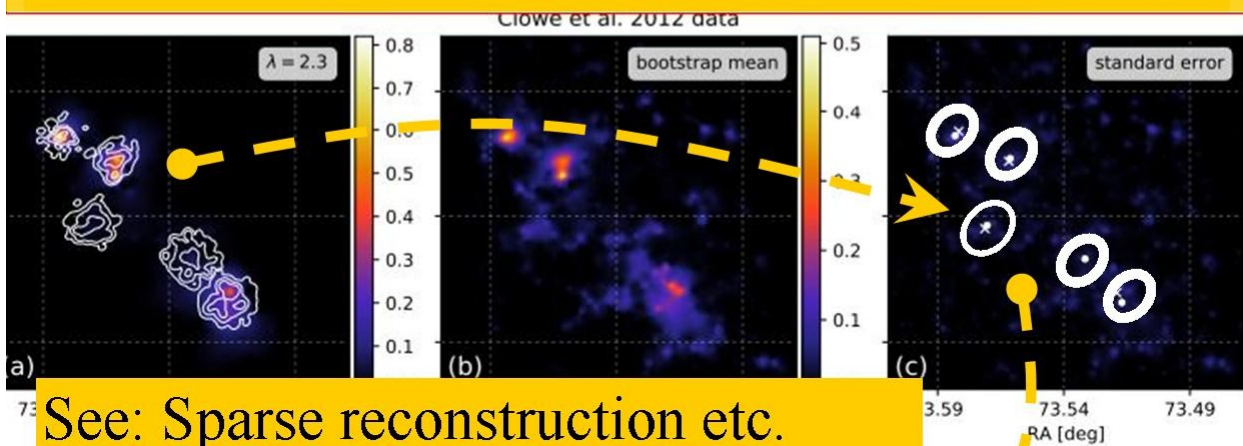
Comets and micro Comets are supposed to be the result of interference black holes produced at the solar surface by magnetic interference (ref. 54) or above thunderclouds called Sprites. (ref.13).

Dark matter concentrations are recently observed in the center of galaxy clusters in combination with lots of “peaks” (fig, 14) representing the complex Dark Matter Black Hole configuration, supporting my proposal for the origin of multiple Ultra Diffuse Galaxies (UDGs) found over there. (fig.1)

Abell 520: Hot gas concentration between approaching Dark Matter concentrations.

Evidence for dumbbell shaped Dark Matter concentrations (multiple Galaxy Anchor Black Holes) lining up before merging. See also: Hot gas concentration between nearest approaching Dark Matter bubbles.

(Q-FFF Theory) see: <http://vixra.org/pdf/1611.0226v7.pdf>



See: Sparse reconstruction etc.
Austin Peel et al. (Uni. Paris Saclay)

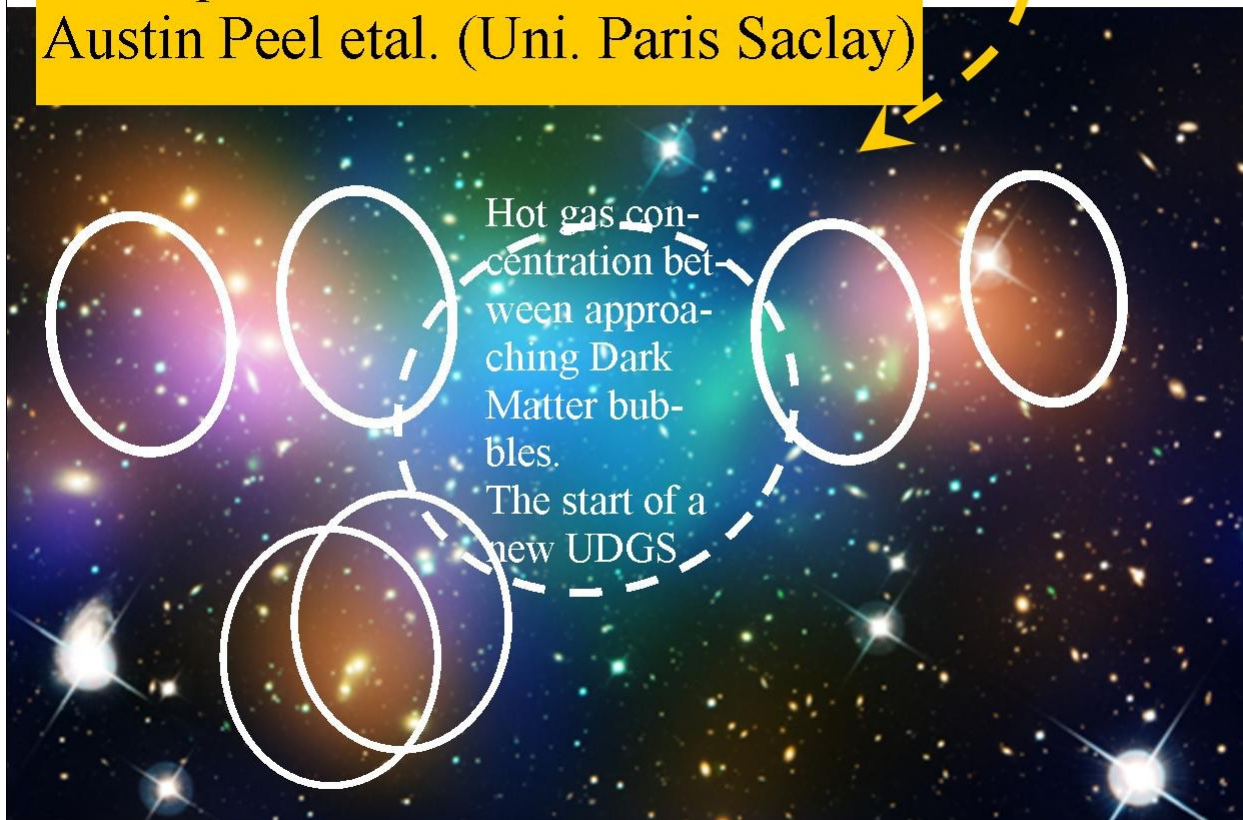


Figure 1, contracting Abell 520 cluster

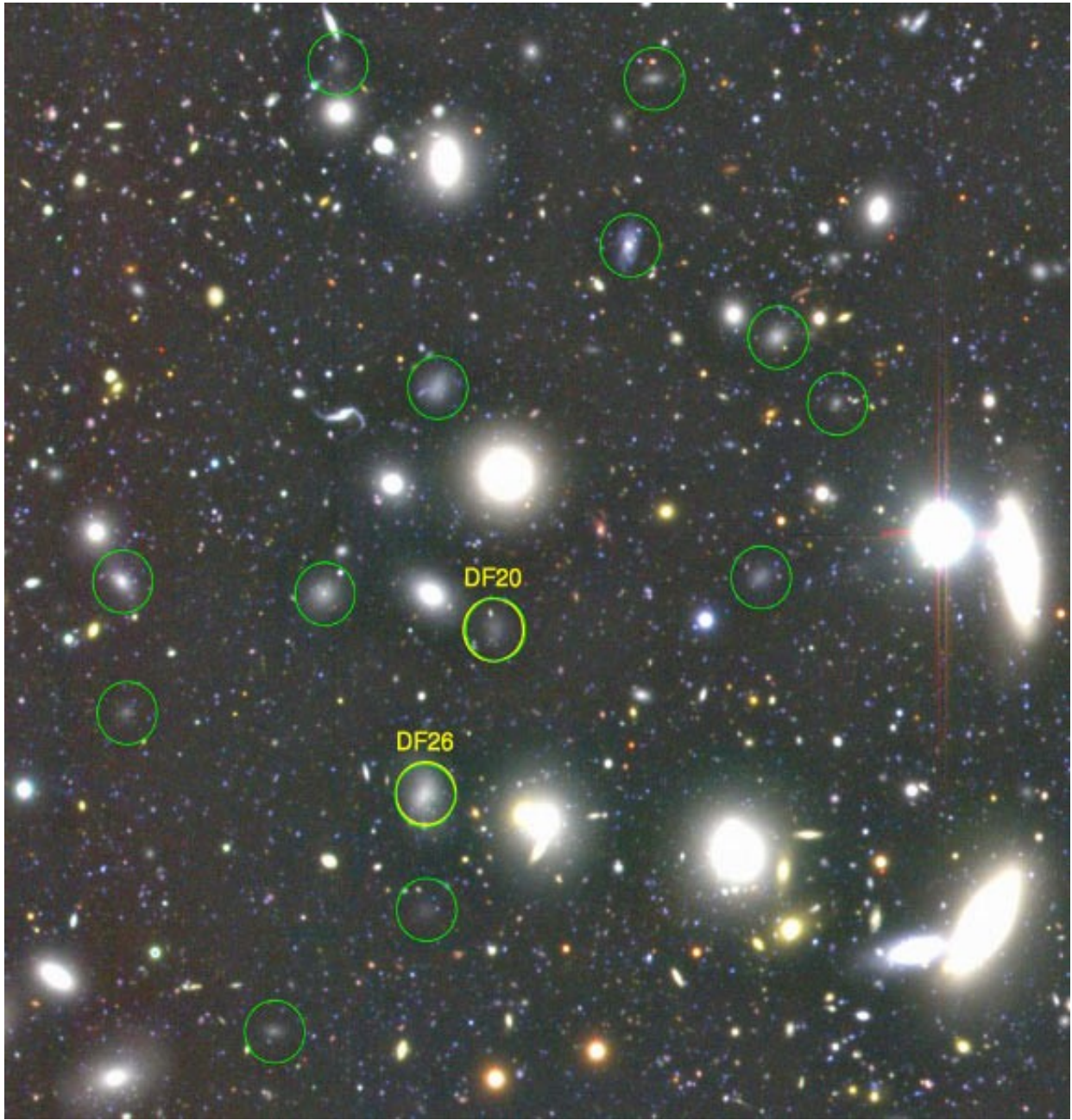


Figure 2. The Coma cluster with multiple Ultra Diffuse Galaxies (encircled)

The origin of “dead” galaxies: Simple external dark matter black hole configuration

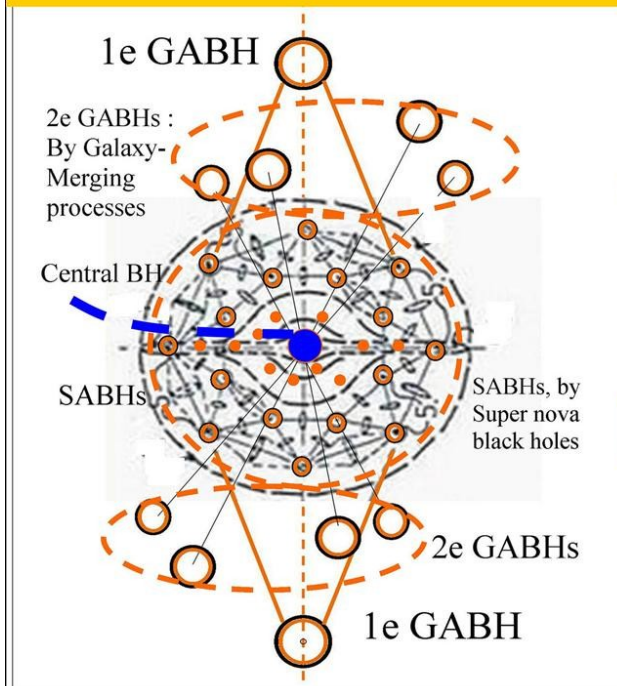


Dead galaxy

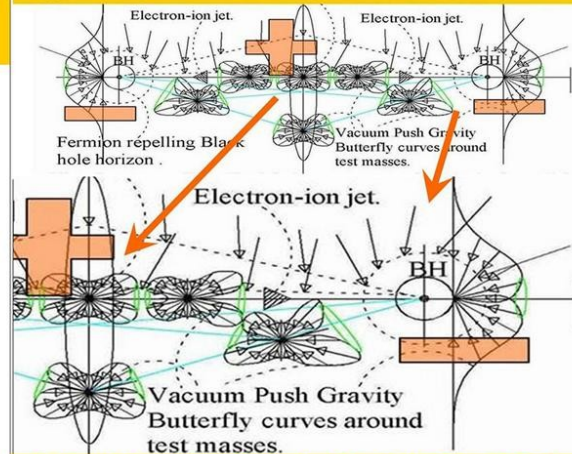
According to Quantum FFF Theory, Galaxies have maximum growing potential by the number and size of external primordial dark matter black holes formed as big bang splinters able to pair into primordial Quasars or Herbig Haro like galaxy systems, which can merge with others. If no galaxy merger candidates are available in the neighborhood, the galaxy will soon reach a maximum size and die. Some Elliptic galaxies die also by reaching maximum merger potential.

Four main Dark Matter Black Hole families.

Primary- Secondary Galaxy Anchor BlackHoles (GABHs), (Globular Dwarfs) Central BH and Stellar/Dwarf Anchor Black Holes, (SABHs), According to Quantum FFFTheory



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.



Below: Merging of spiral galaxies to form elliptical galaxies according to QuantumFFF Theory.

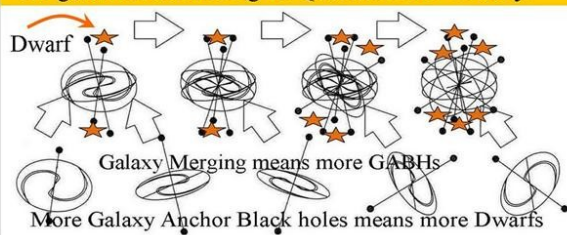
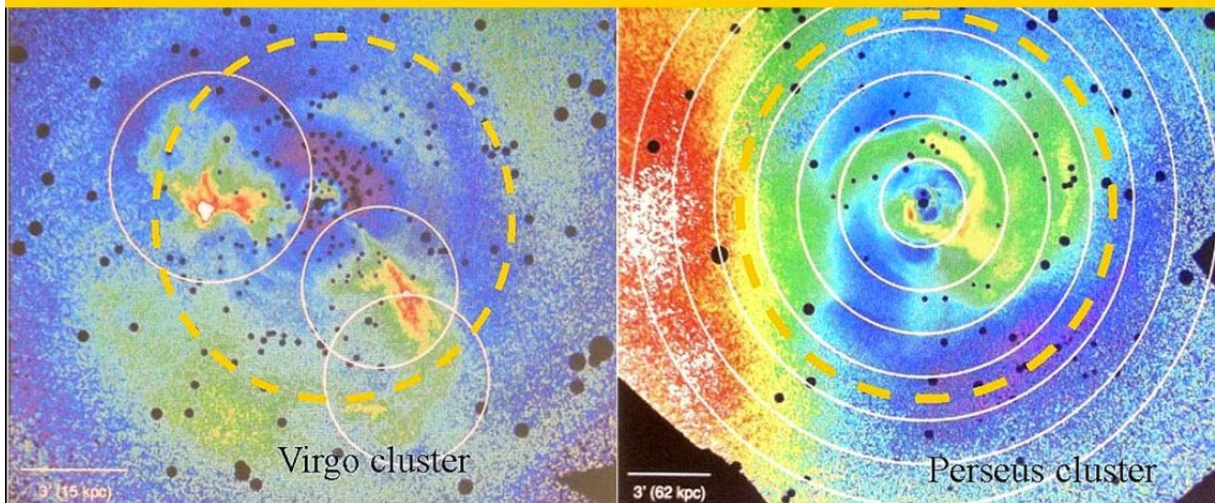


Figure 3. Simple external (new physics) black hole configuration.

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).

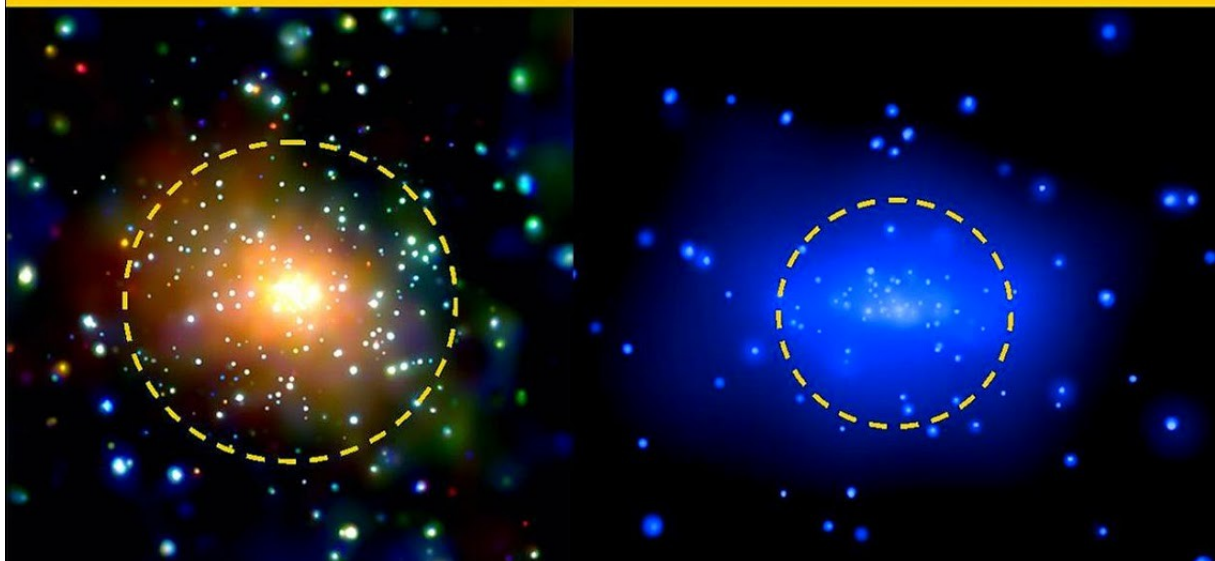
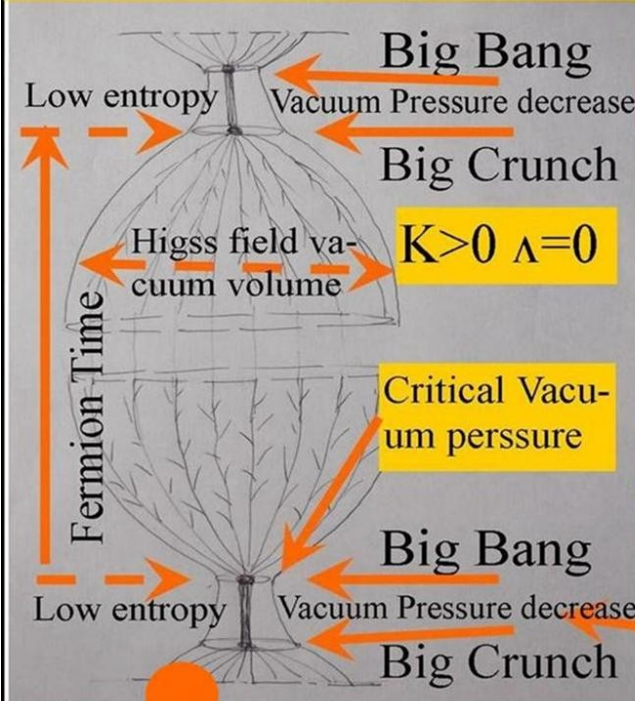


Figure 4. Black hole hierarchy through the cross section of galaxies.

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.



Below: The pairing and splitting primordial black holes as creators of spiral galaxies, able to merge and form elliptical galaxies, (like M87) equipped with a central growing black hole.

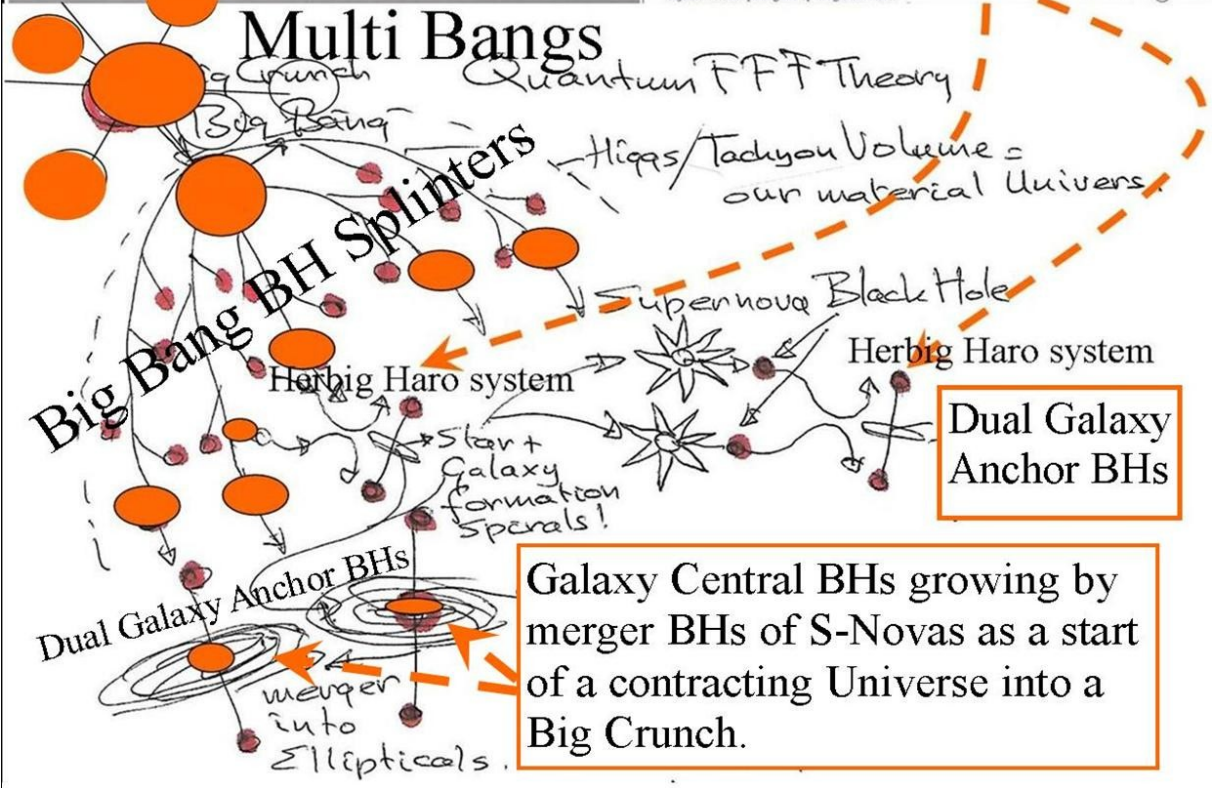
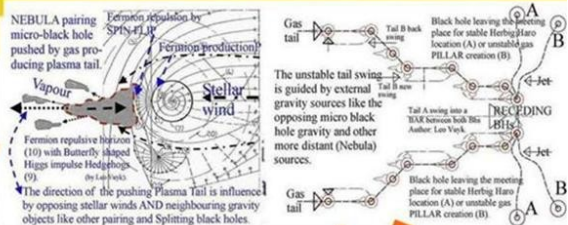
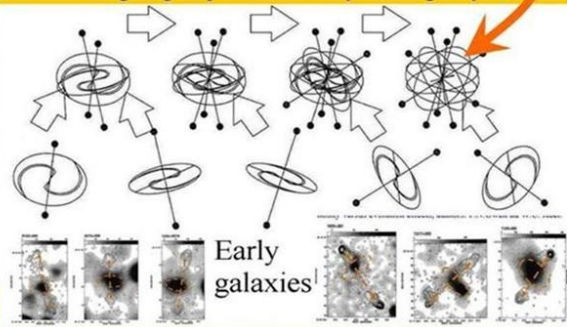
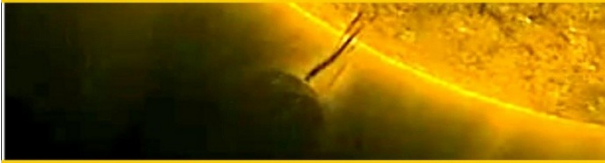


Figure 5. Big Bang black hole splinters as the creators of pairing BH Quasars or Herbig Haro alike systems according to Q-FFF Theory.

SABH cosmic ray hotspots (electric dark matter black holes) as the origin and future slingshot accelerators of Brown Dwarfs expelled by the sun.

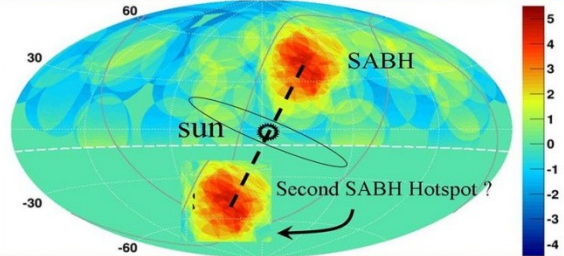
New giant gas planets expelled by the sun, moving away to the south, into the direction of the Southern cross SABH hotspot.



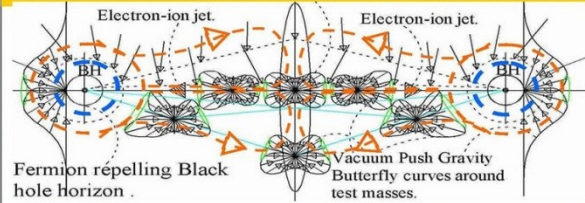
Dates 10Jan.2014 (below) and 11March.2012 (above). "Brown Dwarfs ?" according to Q-FFF .



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).



According to Quantum FFF Theory, "New Black Holes produce Proton-Electron plasma. By the strong Casimir vacuum push gravity on the BH, the "Lighter" electrons will stay outside the "heavier" proton horizon (blue). As a consequence BHs have a strong electric potential, which is liberated by asymmetric processes in dual BH systems like Herbig Haro objects showing strong electro magnetic effects in open cluster star formation and Birkeland Alfvén circuits around the earth and even in the so called BICEP 2 results.

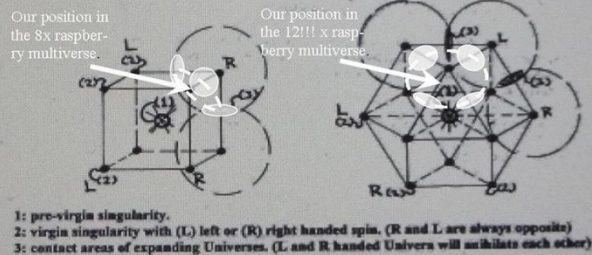


Scheme of the electric SABH principle around the sun.

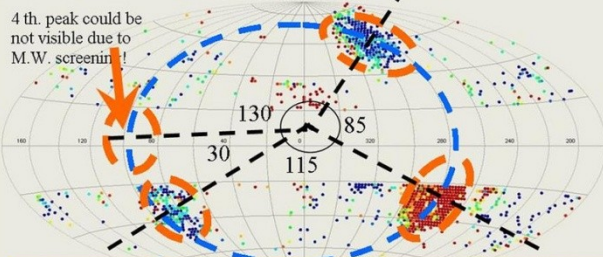
Figure 8, Even the sun seems to have polar dual black hole Herbig Haro remnants.

Our position in the 8 or 12 !!! fold raspberry multiverse. Elliptic shaped CMB peak radiations are tell tales. (left). At the rightside a 12 fold symmetric cube octahedron multiverse diagram is depicted with red: matter and green: anti matter entangled universes.

CONFIGURATION FOR 8 OR 12 UNIVERSES.

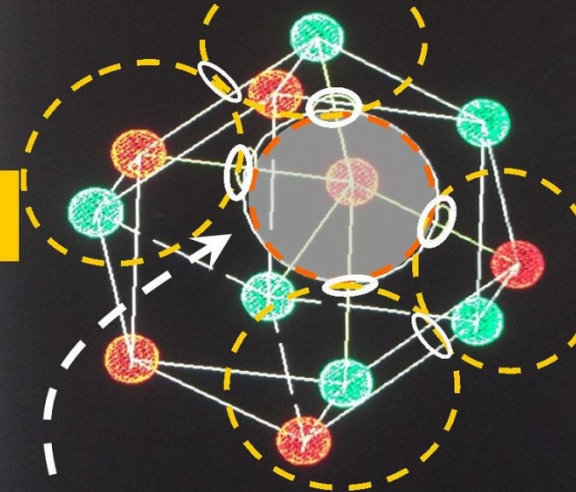


Three extreme fluctuations (elliptic shaped peaks) in the Cosmic Background radiation tell us about our position inside the 8-or 12 fold raspberry multiverse, according to Quantum FFF Theory.



FLUCTUATION ANOMALIES IN THE COSMIC MICROWAVE BACKGROUND. CREDIT: V. G. GURZADYAN AND R. PENROSE.

3 , 4 or 5x elliptic Contact areas in the CMB?

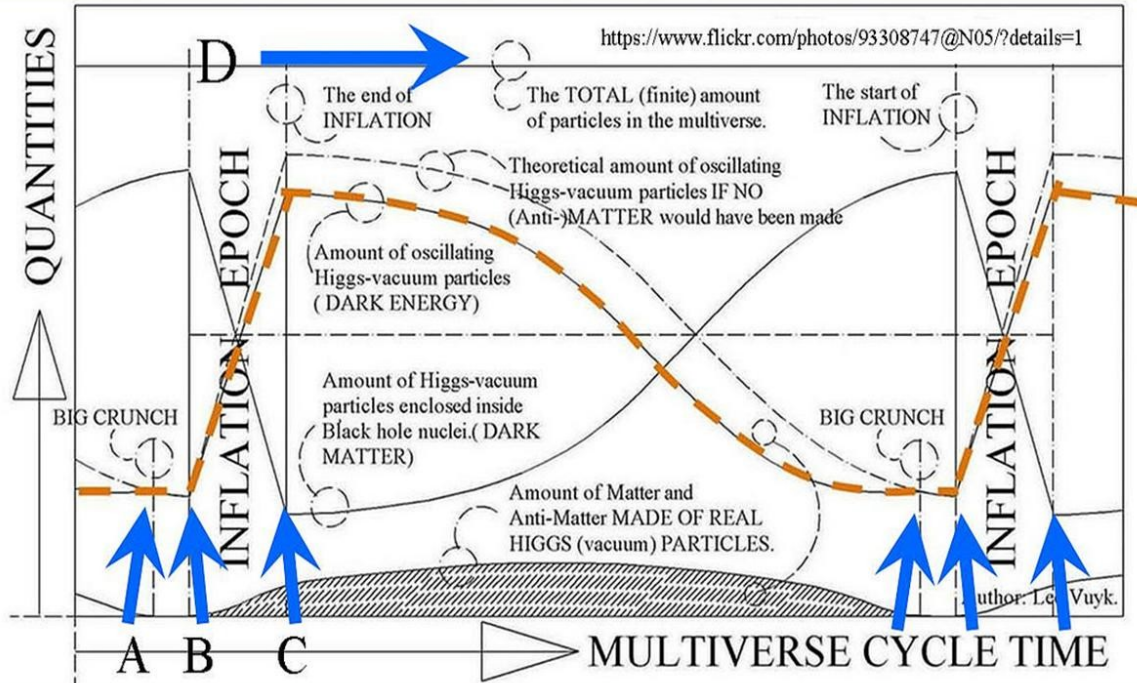


Grey: Our material Universe

Figure 9. 8 or 12 fold raspberry multiverse proposal.

The Beginning and End of Time.

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



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

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

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

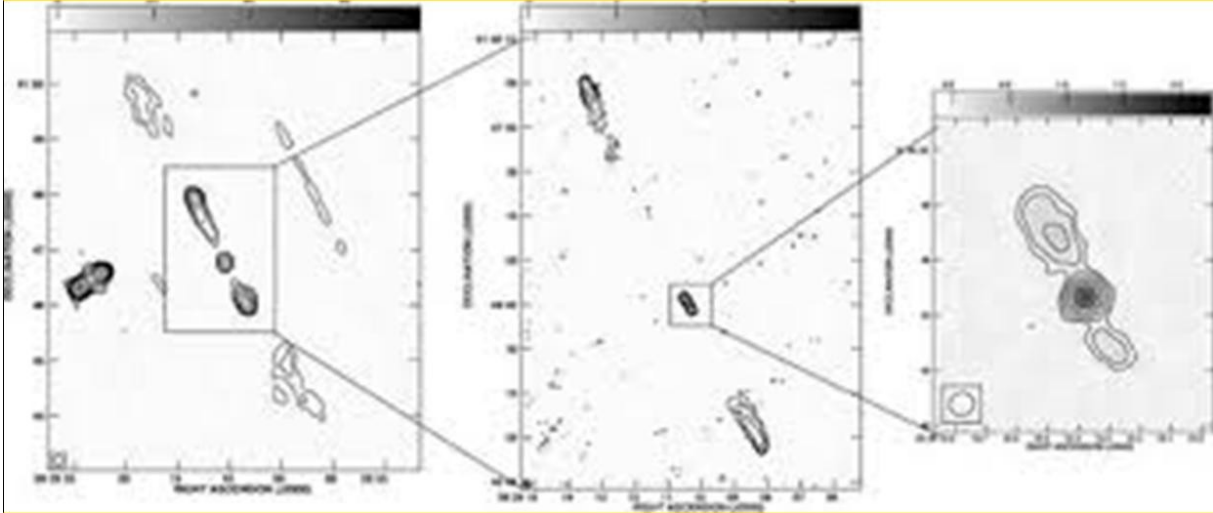
C: The end of primary Big Bang black hole splitting and the end of vacuum expansion (vacuum inflation)

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

According to the Quantum Function Follows Form model.

Figure 10, multiverse evolution and the beginning and end of time.

a `Triple-Double Radio Galaxy



In Quantum FFF theory, stars and galaxies need at least two new physics black holes for a Herbig Haro system (or early Quasar) . However multiple Herbig Haro systems seem also possible.

The great misconception in Astronomy:

Herbig Haro Bowshocks and Cometary Globules, are not interpreted as Dark Matter Black Holes. See below: Bok- and Cometary Globules with young Herbig Haro Bowshocks in the making in the Carina nebula.

Splitting and pairing electric dark matter black holes. Magic self-propelling in space and even on earth according to Quantum FFF theory.

The pairing and splitting of Electric Dark Matter Black Holes into dual Herbig Haro bowshocks, as the fast creation and proliferation of Stars and galaxies after the splitting bigbang.

Several accelerating pairing and receding micro black holes, as the start of HH objects, in the Carina nebula, with temporary meeting place (A) and ionised plasma tail. (Quantum-FFF Theory)

Pairing Cometary Globules

Accretion outburst sources

"Branched Inflation" of the Universe: the Origin of Fingers and Voids.

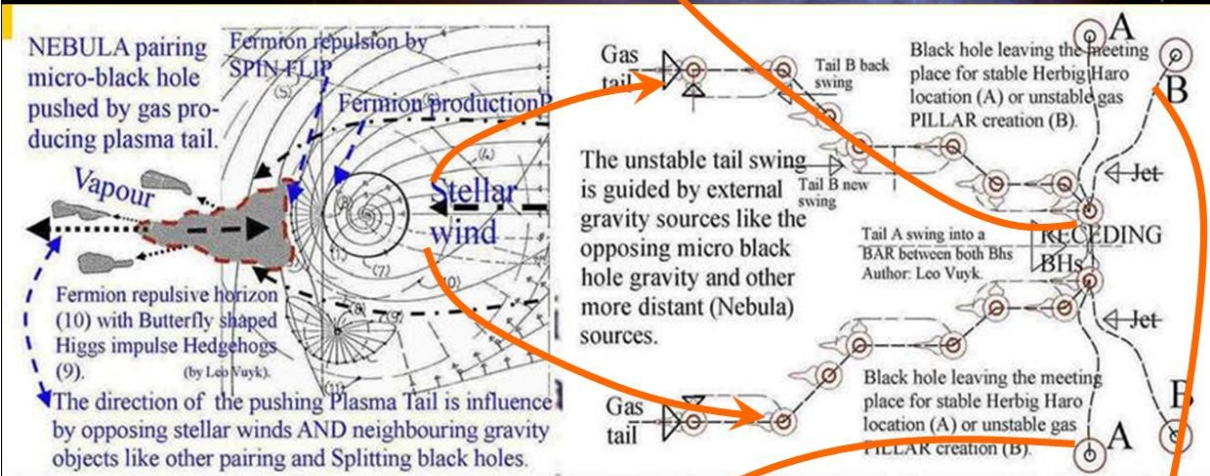
Dual Stellar Anchor Black Holes

Figure 11, Even tripple Quasar/ Herbig Haro systems are possible called radio galaxies.

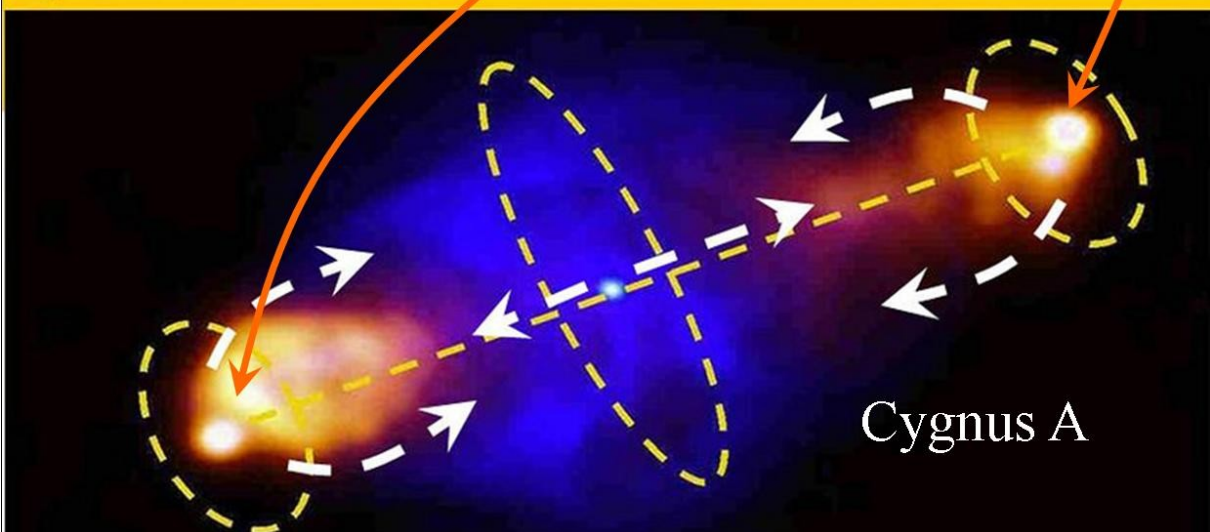
Markarian 231 as the Infant Stage of Cygnus-A Quasar. By EDM Black Hole



Markarian 231



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

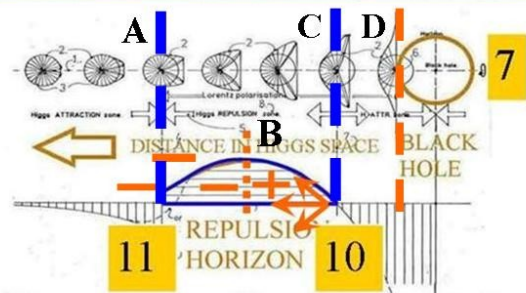
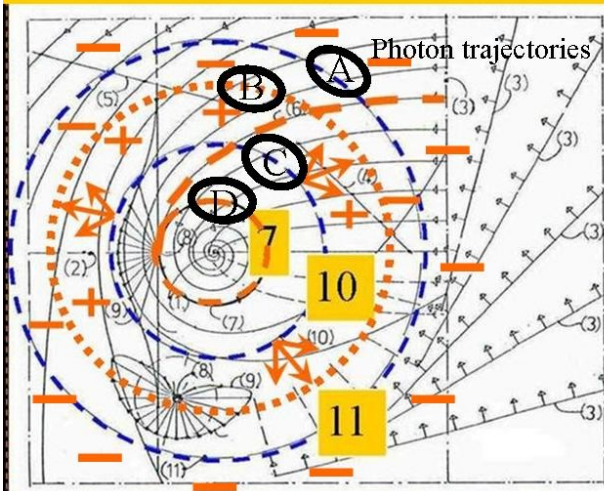


Cygnus A

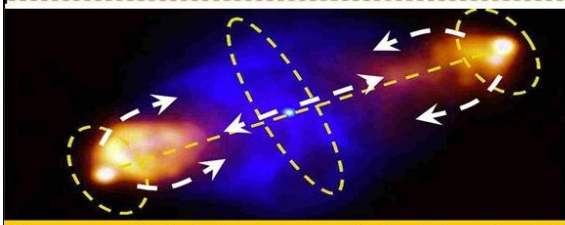
Figure 12. Markian 231 as rhe infant stage of Cygnus A. by By EDM Black Holes.

4X Black Hole Horizon positions A,B,C,D.

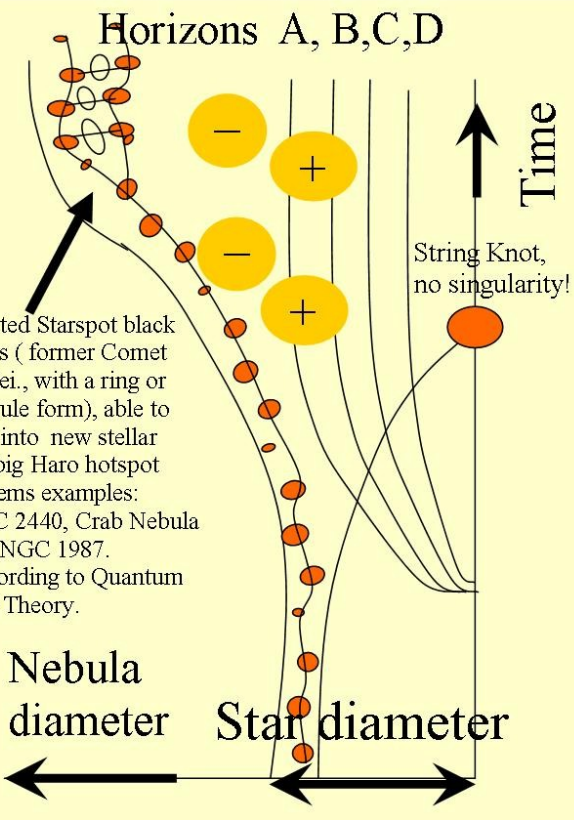
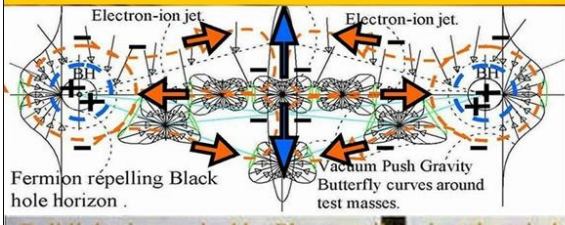
A= Fermion polarization or Repel/Attraction shift boundary. B= Hydrogen Plasma and Proton Construction site for D and U quarks. C= Fermion DE-Polarisation or Repel/Attraction shift boundary. D= Photon and vacuum COLLIDER concentration zone for pair production. 11 black hole nuclei are assumed to be negative charged from the outside and positive charged from the inside. At location B protons and electrons should merge to form real hydrogen plasma, expelled as observed at dual Cygnus A hotspots and even interference B.Hole based Ball Lightning. According to Quantum Function Follows Form Theory.



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)



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.



Ejected Starspot black holes (former Comet nuclei, with a ring or globule form), able to pair into new stellar Herbig Haro hotspot systems examples: NGC 2440, Crab Nebula and NGC 1987. According to Quantum FFF Theory.

Figure 13, 4 different black hole horizons and the proliferation of small starspot black holes.

Numerous Dark Matter peaks assumed to be Galaxy Anchor Dark Matter Black Holes.

(According to Quantum FFF Theory)

Dark matter clump 3D distributions in a distant galaxy cluster. According to Quantum FFF Theory, Galaxy Anchor Black Holes are dual grouped Big Bang Black Hole splinters mostly grouped into dual Herbig Haro systems, as a base for star and galaxy formation.

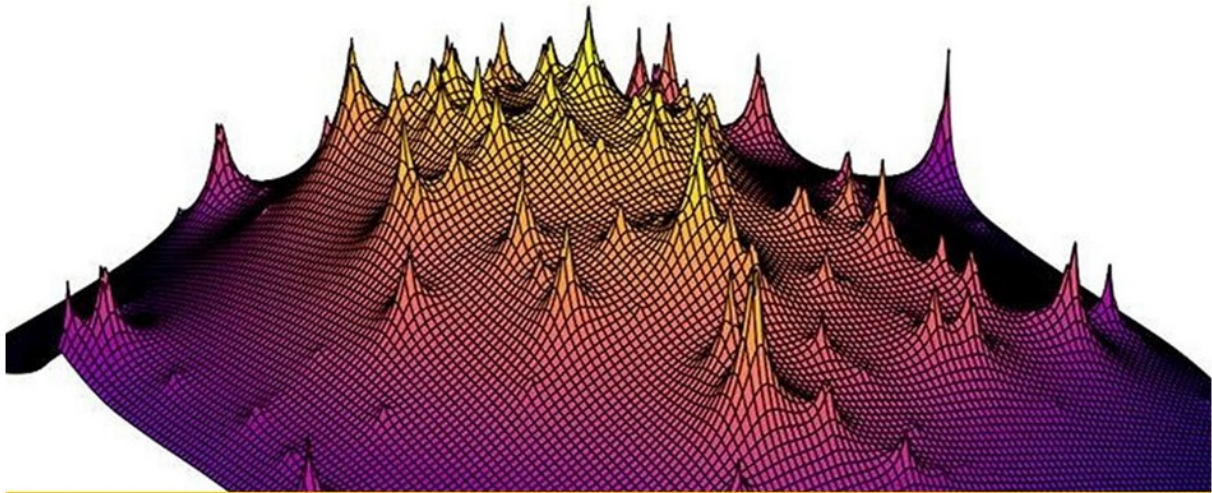


Figure 14, example of the complex dark matter black hole configuration in the center of galaxy clusters .

QUANTUM FFF THEORY.

According to Quantum FFF Theory, 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 (spiralling) 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-MATERIAL multiverse neighbour universe the DNA helix should have a LEFT HANDED spiral. According to Max Tegmark: in an entangled multiverse we may ask: is there COPY PERSON over there, who is reading the same lines as I do? If this COPY person is indeed living over there, then even our consciousness should be shared in a sort of DEMOCRATIC form,

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Books: The New God Particle and Free Will. Author: Leo Vuyk, LuLu publishers, 2008.

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

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

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

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

[81] viXra:1704.0272 Interference Black Holes, Ball Lightning, Micro Comets, Sprite Fireballs

and Sunspots According to Quantum FFF Theory.

[80] viXra:1704.0150 The Origin of Life and the Need for a Rigid String Propeller Fermion Model Combined with a Chiral Vacuum Lattice and Micro Interference Black Holes

[79] viXra:1704.0133 2. Signals for Retarded Single Big Bang Black Hole Nucleus Splitting and Pairing into Dual Black Hole Herbig Haro Systems

[78] viXra:1704.0047 Bohmian Double Slit Interpretation by Dual Entangled Universes, and the Benjamin Libet Experiment.

[77] viXra:1704.0003 A Testable CP Symmetric Multiverse Model by Extended Experiments, Done by the Late Benjamin Libet in 1964.

[76] viXra:1702.0109 CP Symmetry Between Material and Anti Material Copy Universes

Combined with Local- and Multi-Universal Cycle Time.

[75] viXra:1702.0040 The Alternative Origin of Hubble Redshift : Vacuum Absorption by black holes as a Support for Quantum Dipole Repeller Gravity and a Contracting Universe.

[74] viXra:1701.0633 Local and Multi-Universal Cycle Time According to Quantum FFF Theory. (FFF= Function Follows Form)

[73] viXra:1612.0365 John S. Bell Was Right: “How to Teach Special Relativity” and Atomic Pear Shaped Contraction.

[72] viXra:1612.0026 Democratic Free Will and Telepathy in the Instant Entangled

[71] viXra:1611.0226 Galaxy Cluster Merging and Vacuum Absorption by black holes as a Support for Quantum Dipole Repeller Gravity and a Contracting Universe.

[70] viXra:1611.0101 Observed Dual Higgs Mass 124-126 Gev and the Chirality of the Vacuum Lattice.

[69] viXra:1611.0031 Rigid String Cosmology with a Massless Axion-Higgs Oscillating Photon Vacuum Lattice and Massive Quantum Knots.

[68] viXra:1611.0005 Electric Dark Matter Black Holes in the Moon (Orientale Basin)

[67] viXra:1609.0407 New Physics Elements in the Quantum Function Follows Form Model.

[66] viXra:1608.0329 God Seems to Play Dice with Dual Entangled Pinball Machines in a Super symmetric (Susy) Multiverse

[65] viXra:1607.0376 Axion-Higgs 3-Dimensional Rigid Transformable Strings and the Compound 650 GeV Z-Z Decay into Quarks/Lepto quarks.

[64] viXra:1605.0257 Reaction Less Drive by Anti Maxwell Dead Zone Around a Wire.

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