

CP Symmetry Between Material and Anti Material Copy Universes Combined with Local- and Multi-Universal Cycle Time.

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Abstract.

Recent measurements by the LHC are a strong support for the stability differences between (anti)-proton and (anti)-neutrons.

See Nature: "Measurement of matter–antimatter differences in beauty baryon decays"

According to Quantum FFF Theory however there should be a multiversal CP symmetric origin if we assume that the vacuum is able to become chiral.

So I concentrate here on Construction principles for chiral "atoms of spacetime" based on geometrical 3-D chiral vacuum lattice models and consequences for spacetime, general relativity based space curvature and time variation, including cyclic Multi- Universal time, and local time.

The chirality of the oscillating Axion Higgs vacuum lattice in each universe is assumed to be the origin of the difference between material or anti-material universes.

Introduction.

According to Quantum FFF Theory, the fourth dimension (Local Time) seems to be the oscillation based photonic transfer speed (potential time base) of the Higgs doublets along the local Cosmic lattice edges of the vacuum spin field.

Higgs particle doublets are supposed to oscillate in "tandem" or doublets (like a boxer piston engine) along each vacuum lattice edge, to be able to transfer photonic information properly.

This system need to have Higgs particle doublets because otherwise it would be impossible to have a decent information transition system at the information properly.

In this system, one lattice edge is supposed to equal one Planck length.

The spiral structure of the vacuum lattices gives the vacuum a chiral influence on spinning and merging.

Fermion particles and a photonic polarization. The chirality of this system is supposed to be the origin of our material universe as a member (8 or 12?) of the symmetric configuration of the raspberry shaped multiverse .

Around black holes, the Higgs lattice system will be absorbed by the black hole and as a consequence, the vacuum is thinned and the Planck length will vary and locally even increase!!!

As a consequence, the lightspeed of radiation passing the black hole, will decrease and suffer a redshift.

However, if we assume that black holes are the same thing and origin of Dark Matter, then the Hubble redshift is not a tell tale of the expansion of the universe.

TIME is assumed to run forward (right-handedness of clocks) because the universe is like a huge pinball machine.

Spinning Fermions (the pinball) are driven by the oscillating Higgs field (the electric springs) which is supposed to be the origin of the general increase of entropy base of the second law of thermodynamics.

However dark matter in the form of black holes will eat the dark energy of the Higgs field and decrease entropy again, reason to postulate a pulsating and cyclic multi-universe.

Universal Symmetry is not broken if we accept that each material universe is entangled at a long distance with an anti-material copy universe, equipped with opposite chirality inside the oscillating Higgs lattice field.

As a consequence, Time never runs back in anti-material entangled universes, clocks have left handed rotation over there and my human copy me, has his hart in my observation at the right side of his body!.

Being an architect, I am specially focussed on the geometrical part of construction principles of spacetime.

I found out that spacetime geometry and the geometry of elementary particles could be linked if we consider wave particle duality as a mechanical conversion process inside a 3D energetic oscillating “Massless but energetic oscillating Higgs vacuum lattice” and elementary particles with real convertible shapes.

I called it “Quantum Follows Form Theory” (Q-FFF) because the functions of each particle is based on its interaction possibilities with the oscillating Higgs vacuum lattice..

Here I humble present a possible structure of the spacetime fabric, elementary particles, and some consequences for our understanding of TIME.

In Quantum FFF theory, the interaction between oscillating Higgs vacuum particles and Fermions is responsible for a local reference frame with it own local TIME. TIME is the ticking of a local clock based on the jitter of the local (Caesium) atoms by the collisionary interaction with its Fermions and the massless oscillating Axion/Higgs vacuum particles. If the oscillating Higgs vacuum lattice field is deluded around large masses and also black holes then time is retarding and lightspeed as well. (fig. 3)

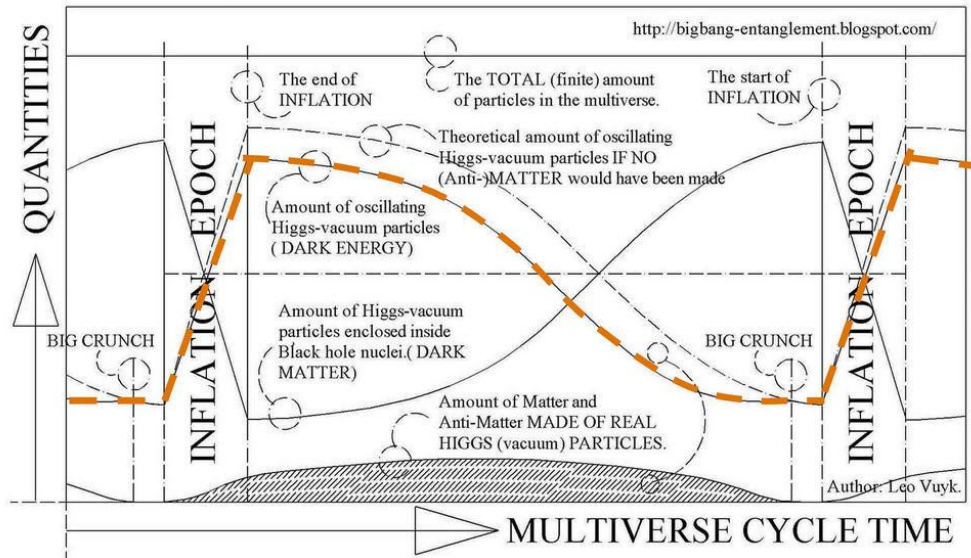
The Universe is supposed to be cyclic by the “constant eating” of the vacuum by all Black Holes leading to a shrinking multiverse and a Big Crunch and Big Bang based Cyclic system with universal CYCLE TIME. (fig.1)

Recent measurements in the LHC are a strong support for the stability differences between (anti)-proton and (anti)-neutrons.

See also: “Measurement of matter–antimatter differences in beauty baryon decays” (Ref. 72.)

The CPT SYMMETRIC MULTIVERSE CYCLE.

The Inflation epoch starts if the decreasing vacuum pressure equals the increasing Higgs tension of the Big Crunch black hole nucleus. Inflation epoch ends if all splintered black hole nuclei are evaporated, or left behind as Galaxy Anchor Black Holes.



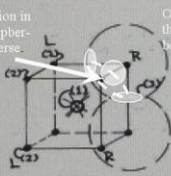
The Pulsating Multiverse depicted as a continuous flow of increasing and decreasing numbers free oscillating- and Black hole condensed Higgs particles and the amount of Quarks and leptons. The size of the pulsating multiverse vacuum is given in orange.

Figure 1, The Charge Parity Time (CPT) symmetric multiverse.

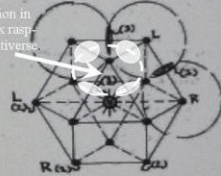
Our position in the 8 or 12 !!! fold raspberry multiverse. Elliptic shaped CMB peak radiations are tell tales. (left). At the rightside a 12 fold symmetric cube octahedron multiverse diagram is depicted with red: matter and green: anti matter entangled universes.

CONFIGURATION FOR 8 OR 12 UNIVERSES.

Our position in the 8x raspberry multiverse.



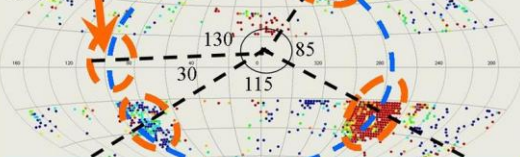
Our position in the 12!!! x raspberry multiverse.



- 1: pre-virgin singularity.
- 2: virgin singularity with (L) left or (R) right handed spin. (R and L are always opposite)
- 3: contact areas of expanding Universes. (L and R handed Universes will annihilate each other)

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.

4 th. peak could be not visible due to M.W. screening !!



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

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

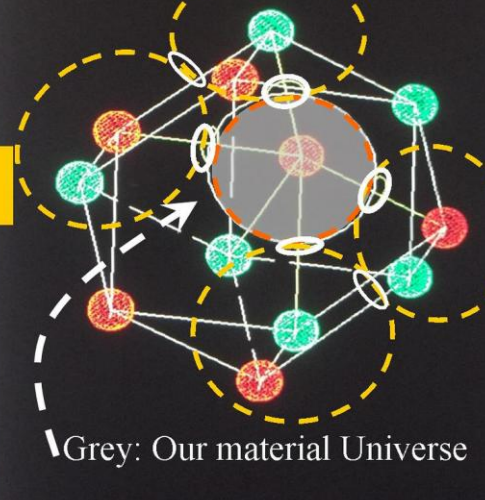
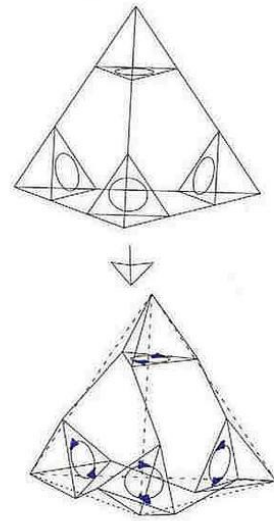
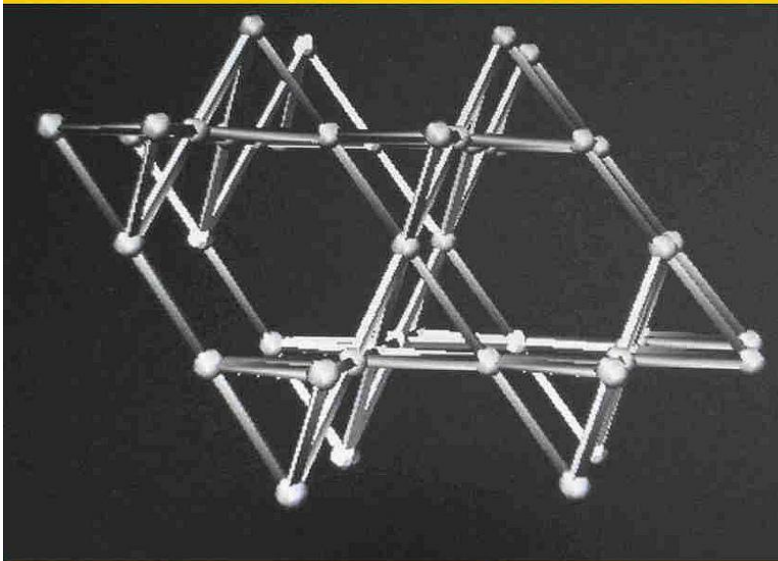
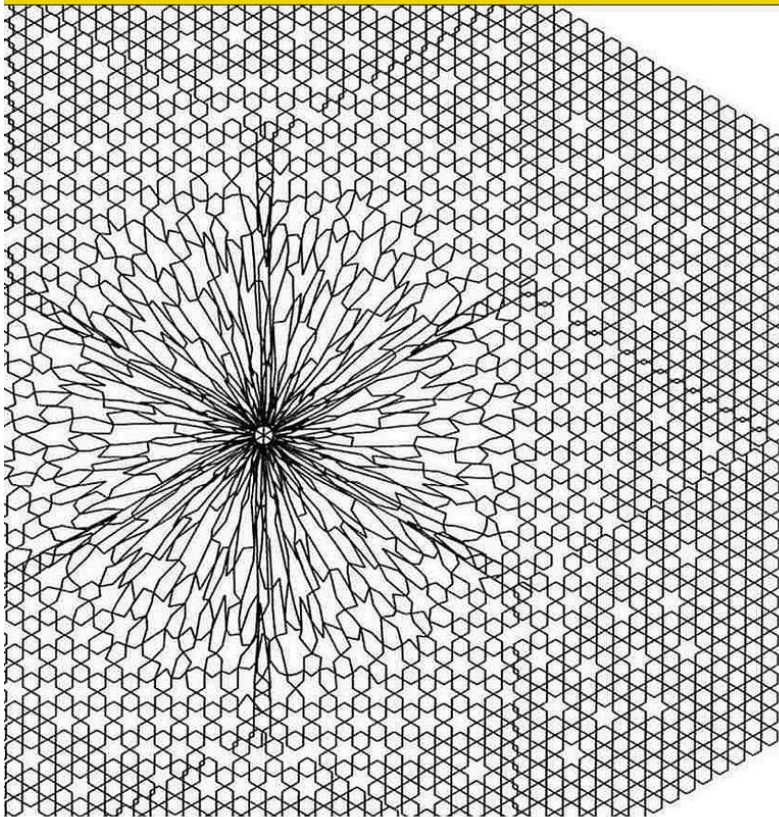


Figure 2, Our position in the 8 or 12 fold multiverse.

New Dark Matter Black Hole, “Eat” the chiral oscillating Higgs vacuum.(Quantum-FFF Theory)



Simplified tetrahedral vacuum lattice structure (left), constructed by complex chiral tetrahedral building blocks (right). Each universe has to choose between a left- or righthanded rotation of its tetrahedral building blocks. Each chiral lattice has the Planck length and is supposed to be equipped with at least two oscillating massless new Higgs particles.



Black holes EAT the vacuum lattice with the oscillating Higgs particles, So, the vacuum lattice structure around a black hole could be represented like this.

As a result, the near vacuum is thinner or diluted, it has holes, which could be the origin of the Universal HUBBLE redshift.

By contrast, my new black hole paradigm says: the origin of universal redshift is Dark matter.

Dark matter is the proliferation of vast numbers of Black holes around Galaxies. Conclusion, based on Hubble redshift, we don't know anything about expansion or contraction of the universe.

(Author Leo Vuyk)

Figure 3, The fine structure of the oscillating vacuum lattice.

The fine structure of the dual oscillating Higgs vacuum and the influence on the vacuum structure of a dark Matter black hole “eating” the vacuum. The result is that the Higgs particle volume of the vacuum will decrease leading to the Big Crunch, and local time of Caesium oscillations in your watch is retarding in accordance with General relativity.

Equivalence between Planetary gravity (A) and Black hole gravity (B) does not hold in Quantum FFF Theory. .

Higgs field (Casimir) pressure (3) combined with Graviton pressure (6)

Black Hole gravity is only based on polarized Higgs (Casimir) pressure (3) WITHOUT graviton pressure.

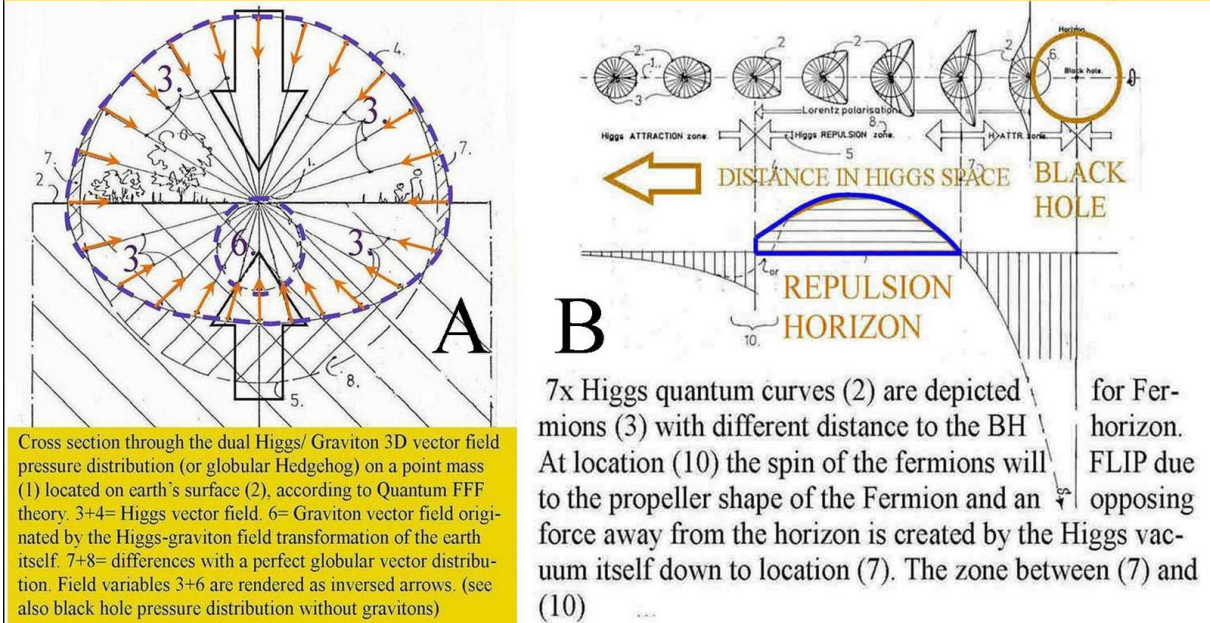


Figure 6, NO equivalence between blackhole quantum gravity and Fermion gravity.

Different- and equally sized black holes pairing en splitting in the Eagle. (LEFT) Unequal sized pairing black holes seem to need splitting of the largest BH into two equal parts, before the creation of a Herbig Haro system

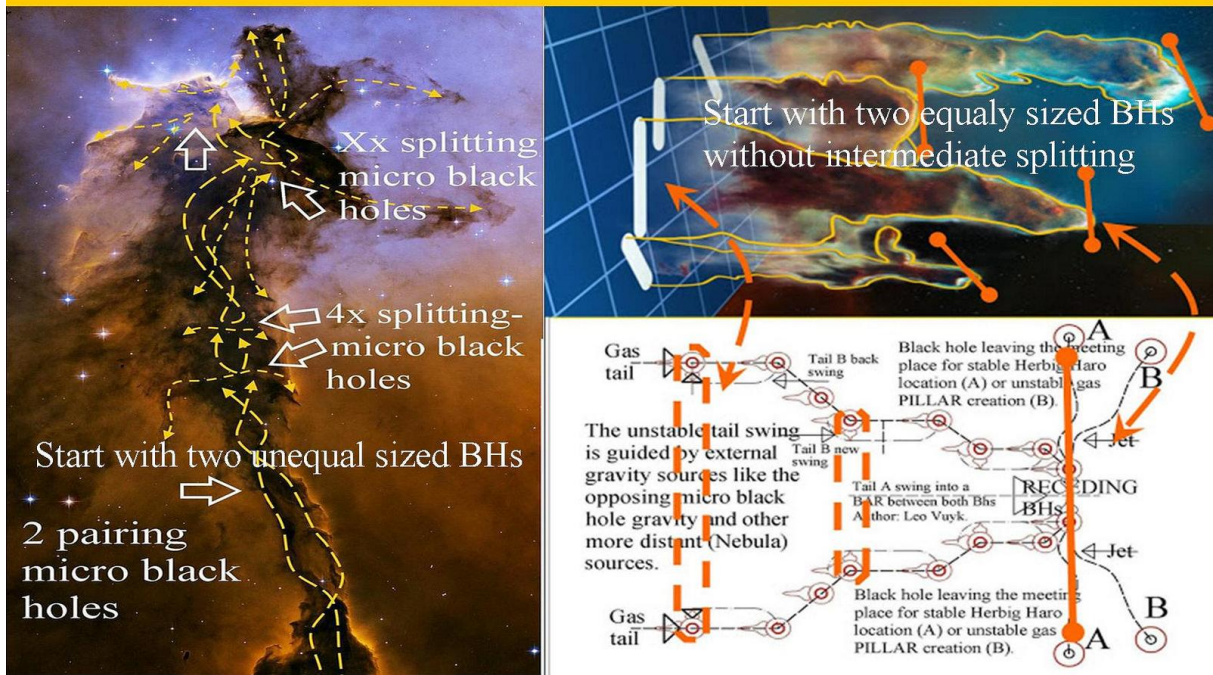
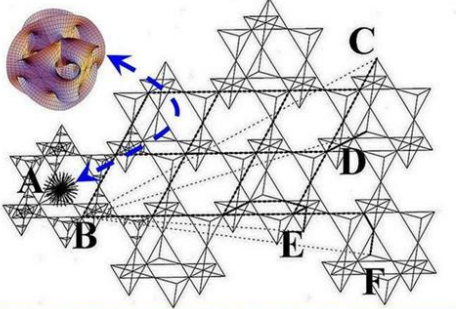


Figure 7, Pairing and splitting black holes as a base for star /galaxy formation.


The massless chiral Axion/Higgs oscillating dark energy vacuum field with a Topological superconductor function.

The massless transformable Axion /Higgs particle is supposed to act as the mother of all single and compound rigid string particles fermions/neutrinos, photons etc.


Topology of the Oscillating Chiral Higgs field vacuum structure, with Dark Matter Quantum Knots inside Black Hole Nuclei, as the second energetic element to make the Multiverse a cyclic self organising system.



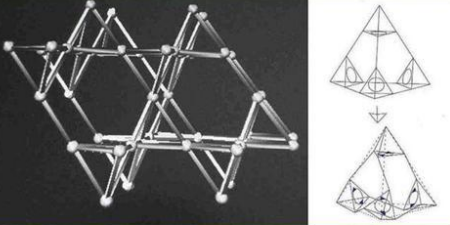
Photon trajectories through the tetrahedral oscillating Higgs vacuum lattice. (Acc. to Quantum FFF Theory)
 A: a real shaped Photon is created by Higgs collision with a dual axis spinning (Calabi Yau) Fermion propeller.
 B: that Photon transfers CODED form information (monopole photon info) and direction information into one Higgs particle which transfers this information by mutual Higgs collisionary oscillations through the vacuum in one specific direction. C,D,E, or F
 F: Only magnetic photonic information (2x : North and South) are subject to curvature by an undisturbed symmetric oscillating vacuum
 II: Local Anti-Symmetric Oscillating vacuum Frames are influenced by massive objects like the earth and responsible for semi relativistic effects.
 III The vacuum lattice has helix- or chiral quality being the origin of our material universe.



Dark Matter Quantum Knots inside BH Nuclei.

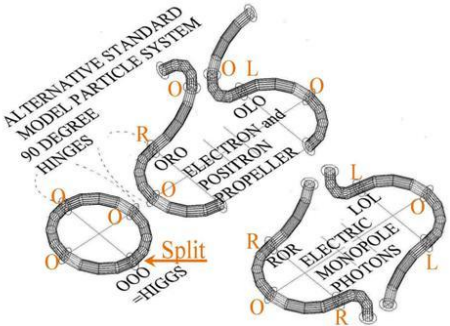


New Dark Matter Black Hole, "Eat" the chiral oscillating Higgs vacuum. (Quantum-FFF Theory)

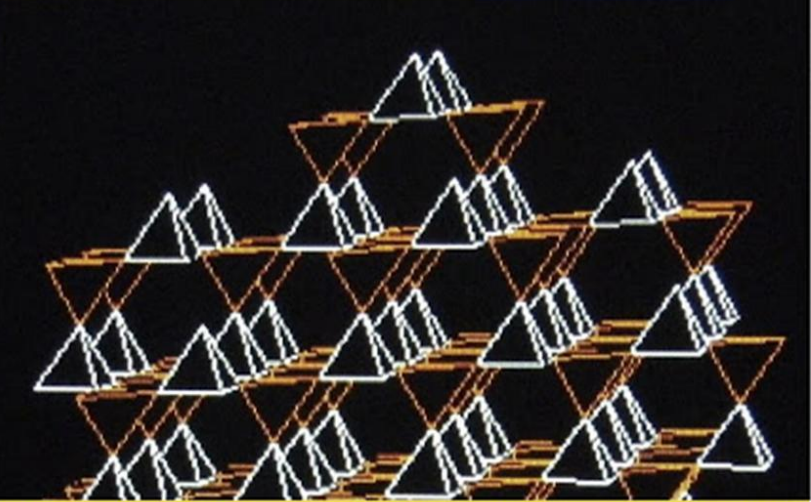


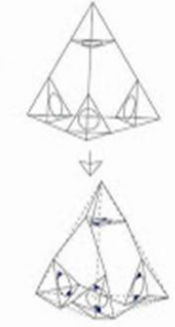
Simplified tetrahedral vacuum lattice structure (left), constructed by complex chiral tetrahedral building blocks (right). Each universe has to choose between a left- or righthanded rotation of its tetrahedral building blocks. Each chiral lattice.

ALTERNATIVE STANDARD MODEL PARTICLE SYSTEM

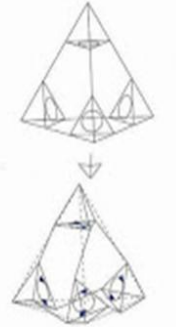


3-D image of TWO tetrahedron space fill units with chiral, left or right handed characteristics, the origin of our material universe and our opposite anti-matter universe.





Space fill unit with RIGHT hand rotation.



Space fill unit with LEFT hand rotation.

Truncated tetrahedron space according to the Quantum-FFF model. Each tetrahedron lattice has a spiral shape based on three linear units

Figure 8, the superconducting vacuum lattice.

New Cyclic Multiverse with Bang and Crunch

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.

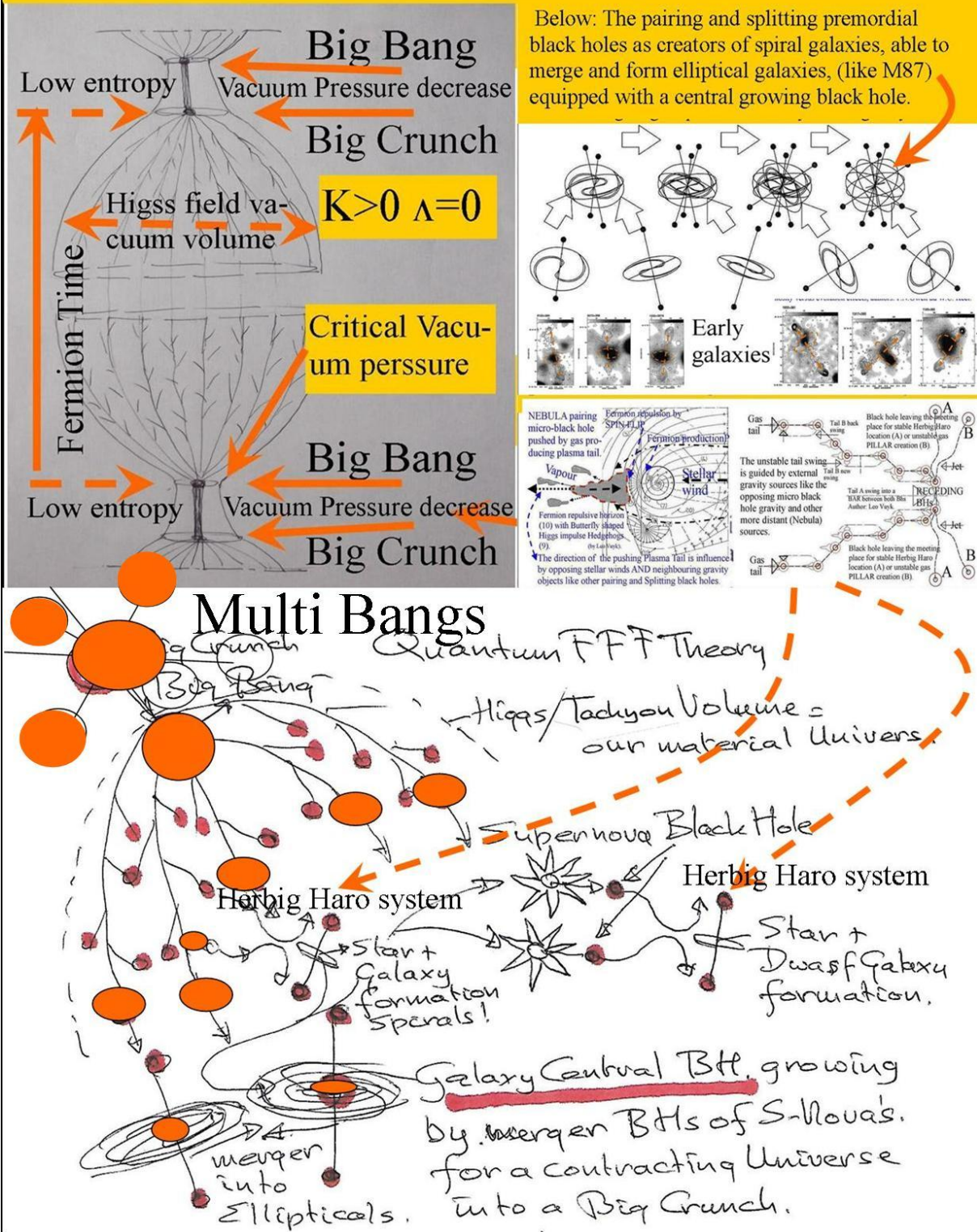
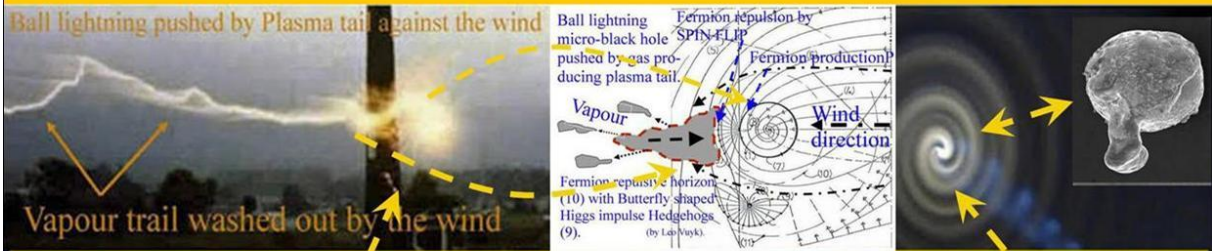


Figure 9, The cyclic multiverse with Multi BigCrunches and Multi Big Bangs.

Black Holes of all sizes, (even the smallest) are supposed to EAT the Vacuum and leave a super conducting channel behind, e.g. for fast charge transmission.



Ball Lightning and Micro Comets Based on New ZPE Black Hole Paradigm



Stunning resemblance between universal mass distribution and Fulgurite structure, assumed to be created by Quantum Knot (black hole) splitting.

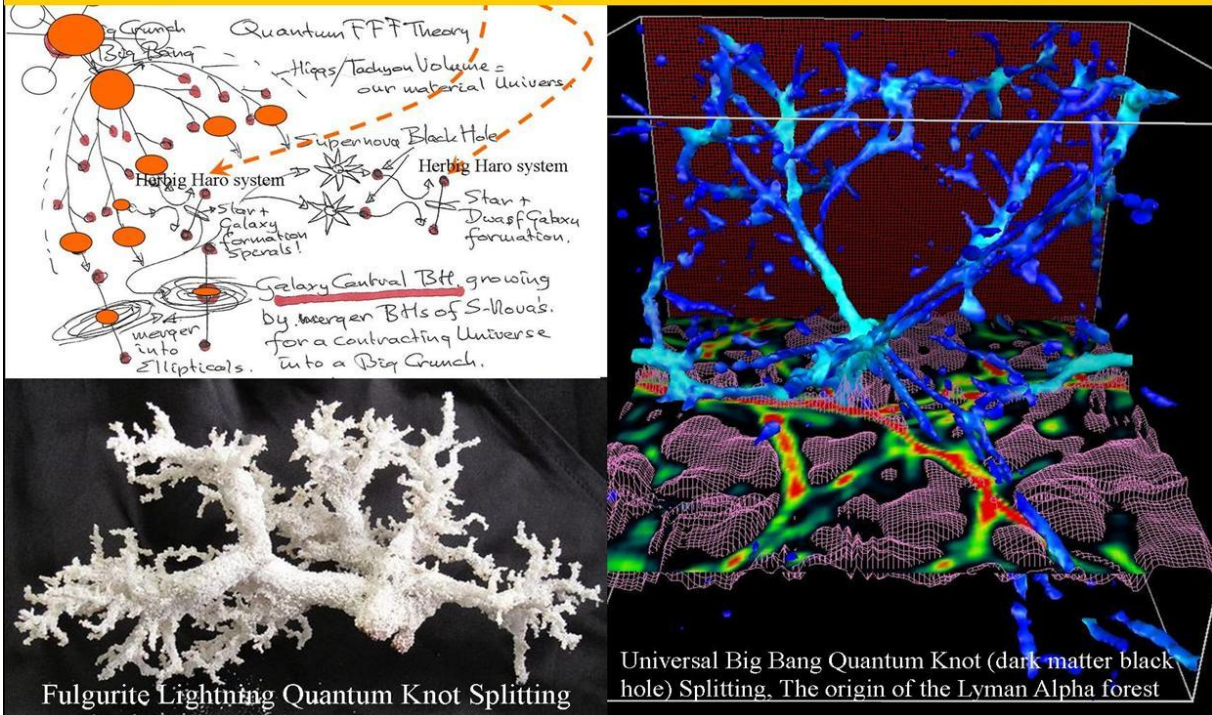
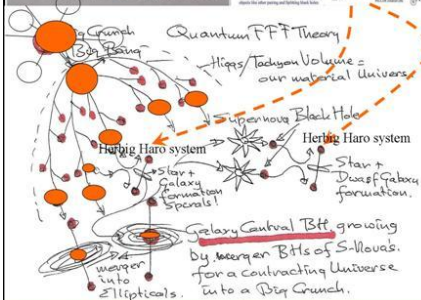
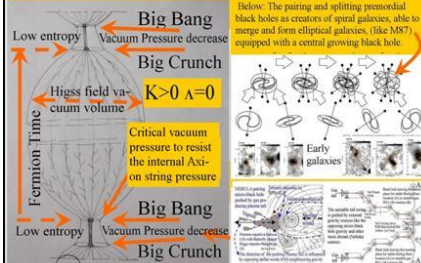


Figure 10, Black holes can have all sizes, from ball lightning up to the Big Crunch black hole.

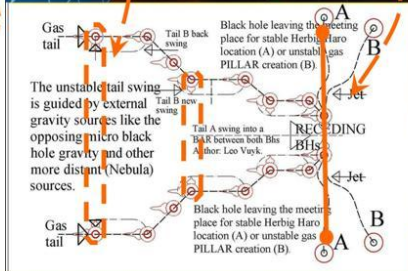
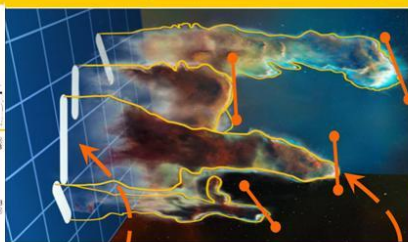
Cyclic Universal Dynamics by New Physics Dark Matter Black Holes.

New Cyclic Multiverse with Bang and Crunch

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.

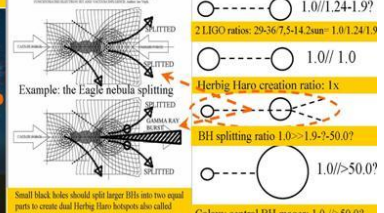


FLAT Pillars of Creation in 3D, support the Electric Dark Matter Black Hole pairing and splitting process into Herbig Haro systems, according to Quantum FFF Theory.



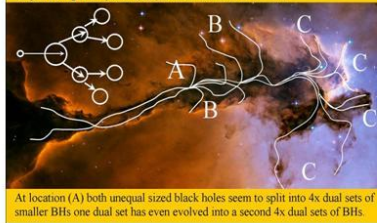
LIGO based Black Hole ratios and the ability to merge or split into two equal BH parts, able to create Herbig Haro systems and Gamma Ray Bursts. Such splitting systems are observed in the so called Spire part of the Eagle nebula.

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 Vink)



Black hole splitting in the Spire Eagle nebula

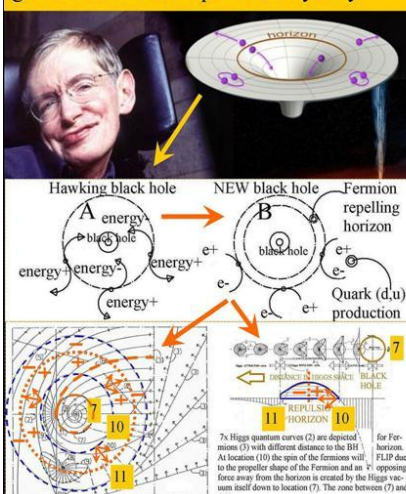
According to the Quantum Function Follows Form Model, small black holes split larger BHs in equal halves, (A) which are able to repeat each other and form dumbbell shaped Herbig Haro systems (B,C) with star formation in between.



The Primordial Splitting Big Bang Dark Matter Black Holes Recombine as Tandems and Form Herbig Haro Dual BH Dumbbell Systems.

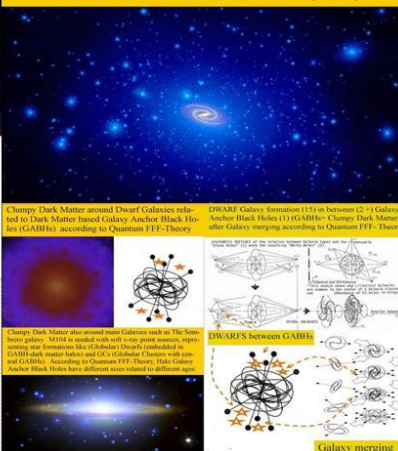
The New Physics of the Dark Matter Black Hole Fermion Repulsion Zone is responsible for the creation of dual Black Hole based Herbig Haro star/galaxy pressure cookers. They form the external Galaxy Anchor BlackHoles (GABHs) and the Dark Matter Cores of Galaxy Clusters and the Big Crunch. According to Quantum FFF Theory. (Function Follows Form)

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



A giant clumpy dark matter halo based on new physics black holes

A clumpy dark matter halo with varying densities and a very large, diffuse structure, as predicted by simulations, with the luminous part of the galaxy shown for scale. Image credit: NASA, ESA, and T. Brown and J. Tumlinson (STScI).



Abell 520 Galaxy cluster collision, is a clear example of the clumping of dark matter (black holes) during galaxy passage through the center of the collision. Galaxies lost their Galaxy Anchor Black Holes, (GABHs) In line with Quantum FFF model.

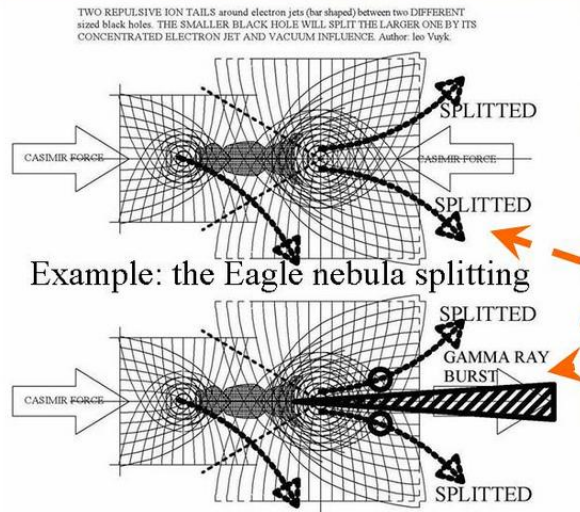


Quotation of Wikipedia: "The dark matter collected into a "dark core" containing far fewer galaxies than would be expected if the dark matter and galaxies hung together. Most of the galaxies apparently have sailed far away from the collision. This result could present a challenge to basic theories of dark matter, which predict that galaxies should be anchored to the invisible substance, even during the shock of a collision" see also: Bullet cluster with central DM core.

Figure 11, Universal cyclic dynamics

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).



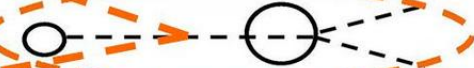
Dual black hole merger nominal mass contents observed by LIGO in 2015 and 2016 resp. 29/36x and 7.5/14.2x sun masses. see: Quantum FFF Theory. The related ratios are: 1/1.24 resp. 1/1.9.

$1.0 // 1.24 - 1.9?$

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

$1.0 // 1.0$

Herbig Haro creation ratio: 1x



BH splitting ratio $1.0 \gg 1.9 - ? - 50.0?$

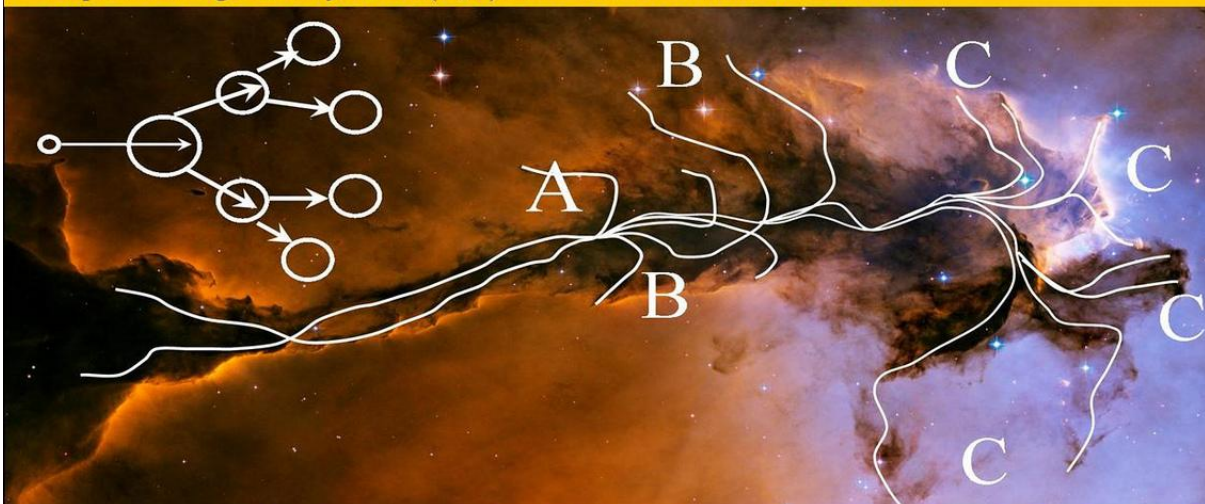
$1.0 // > 50.0?$

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

Galaxy central BH merger: $1.0 // > 50.0?$

Black hole splitting in the Spire Eagle nebula

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

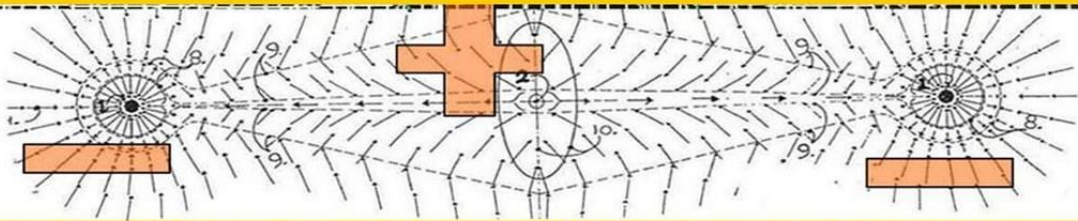


At location (A) both unequal sized black holes seem to split into 4x dual sets of smaller BHs one dual set has even evolved into a second 4x dual sets of BHs.

Figure 12, Black hole merging /splitting ratios base don LIGO experiment.

Dual Black Hole Quantum Gravity

Quick Star / Galaxy production by Casimir/Higgs field vacuum pressure gravity in Butterfly form combined with static electric field.



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.

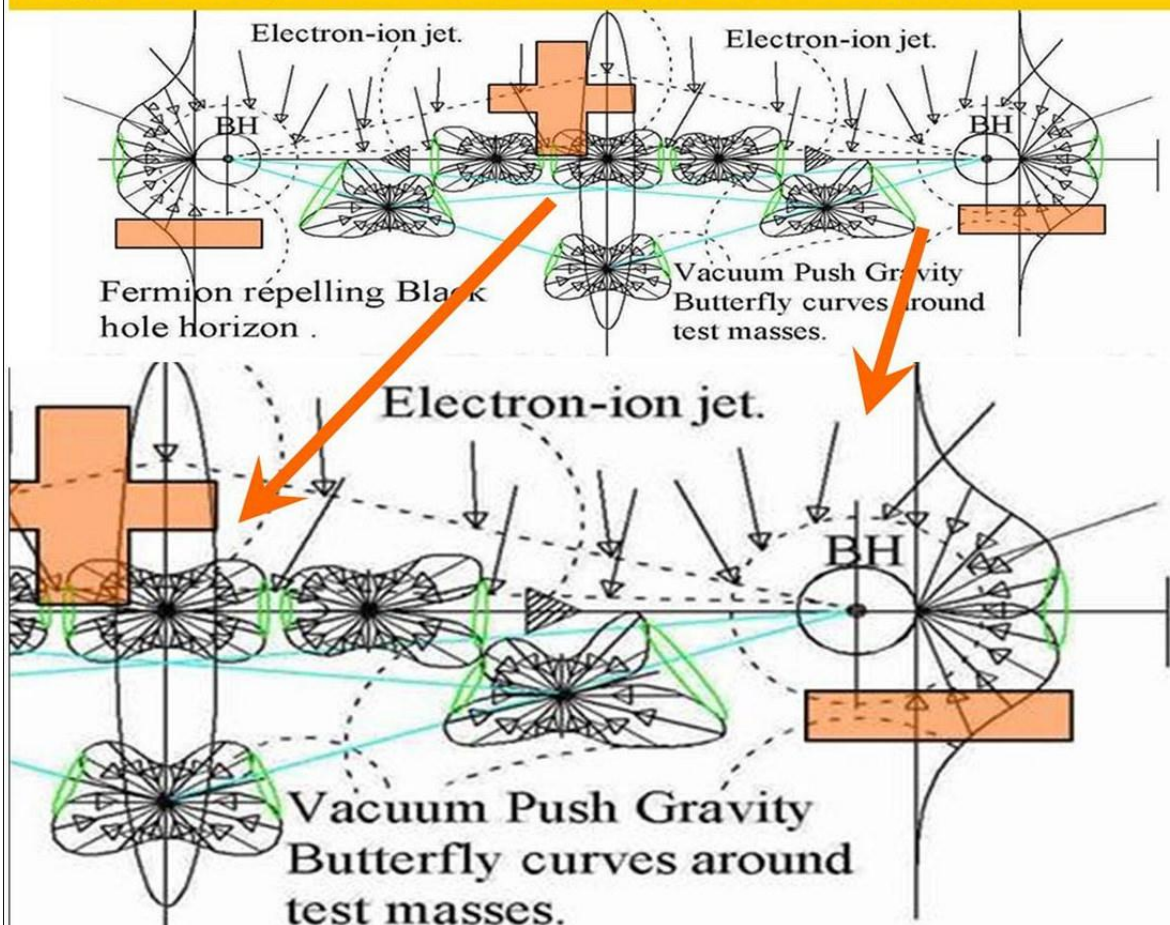
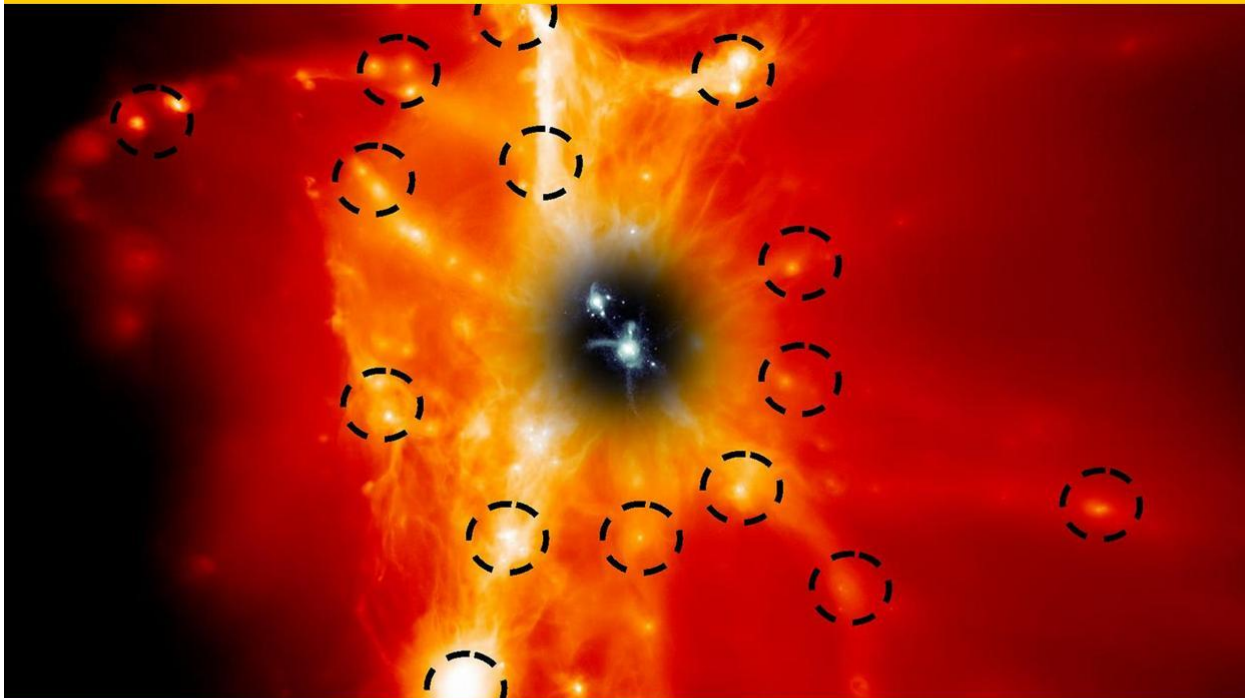


Figure 13, Dual black hole quantum gravity and spacetime structure.

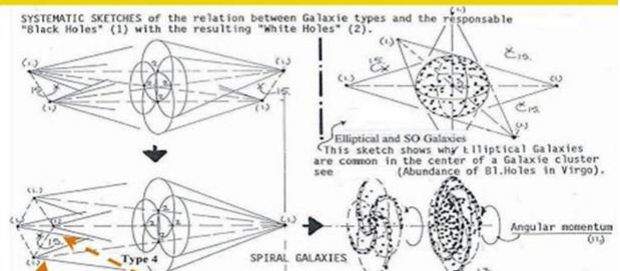
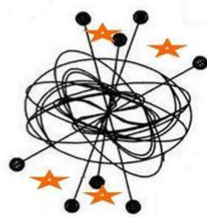
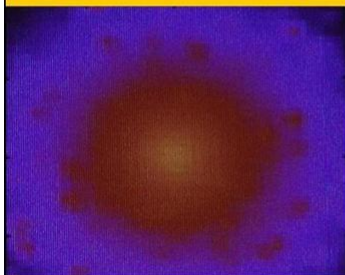
'Wasteful' galaxies launch heavy elements into surrounding halos and deep space,



Quantum FFF Theory says: this galaxy is a young merger with multiple GABHs in the CGM, as remnants of former merger GABHs

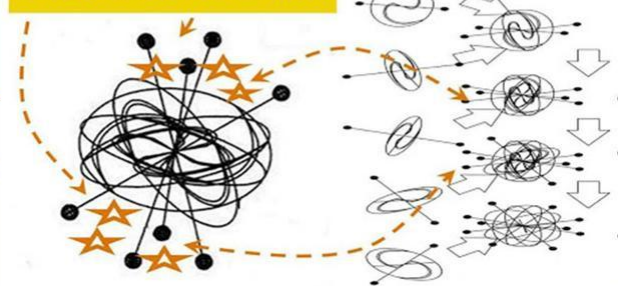
Clumpy Dark Matter around Dwarf Galaxies related to Dark Matter based Galaxy Anchor Black Holes (GABHs) according to Quantum FFF-Theory

DWARF Galaxy formation (15) in between (2+) Galaxy Anchor Black Holes (1) (GABHs= Clumpy Dark Matter) after Galaxy merging according to Quantum FFF- Theory.



Clumpy Dark Matter also around main Galaxies such as The Sombrero galaxy. M104 is seeded with soft x-ray point sources, representing star formations like (Globular) Dwarfs (embedded in GABH-dark matter halos) and GCs (Globular Clusters with central GABHs). According to Quantum FFF-Theory, Halo Galaxy Anchor Black Holes have different sizes related to different ages.

DWARFS between GABHs



Galaxy merging



Figure 14, observation examples of dark matter black hole systems around (merger) galaxies.

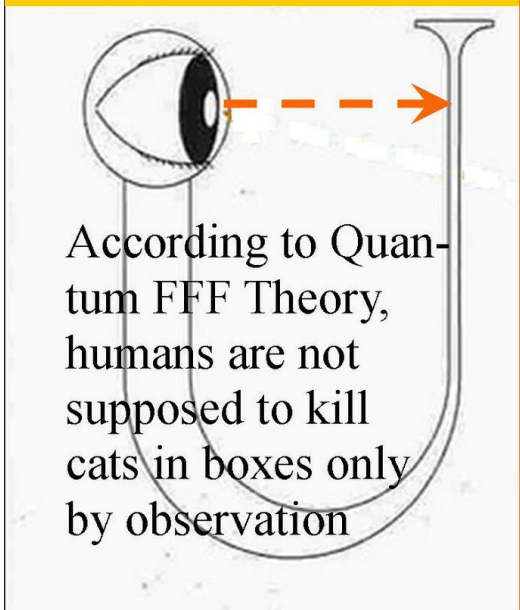
Pairing small new physics dark matter black holes in nebula, the start of a new star (cluster) in a Herbig Haro (HH) system.



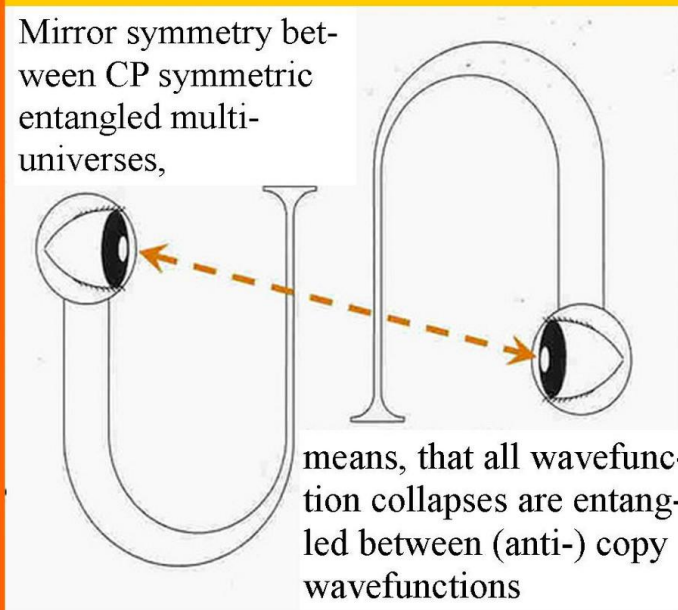
Figure 15, Pairing small black holes as a base for Herbig Haro systems and star formation in between.

One of the Copenhagen interpretations of human observation influencing wavefunction collapses. E.g. for human observation of dead or alive Cats in boxes.

The alternative Quantum Function Follows Form Model interpretation of (Charge Parity (CP) symmetric) instant entanglement based collapse between multiple universes. E.g. NO human influence on dead or alive cats in boxes.



According to Quantum FFF Theory, humans are not supposed to kill cats in boxes only by observation



Mirror symmetry between CP symmetric entangled multi-universes,

means, that all wavefunction collapses are entangled between (anti-) copy wavefunctions

Figure 16, Instant entanglement between anti-copy wavefunctions in universes is the origin of decay of nuclear material in boxes with cats.

Lorentz Fitzgerald Contraction is real!

A real Lorentz Fitzgerald contraction does not fit into Einsteins Special Relativity. However recent findings of atomic nucleons polarized into one fixed spacetime direction should tell us differently.

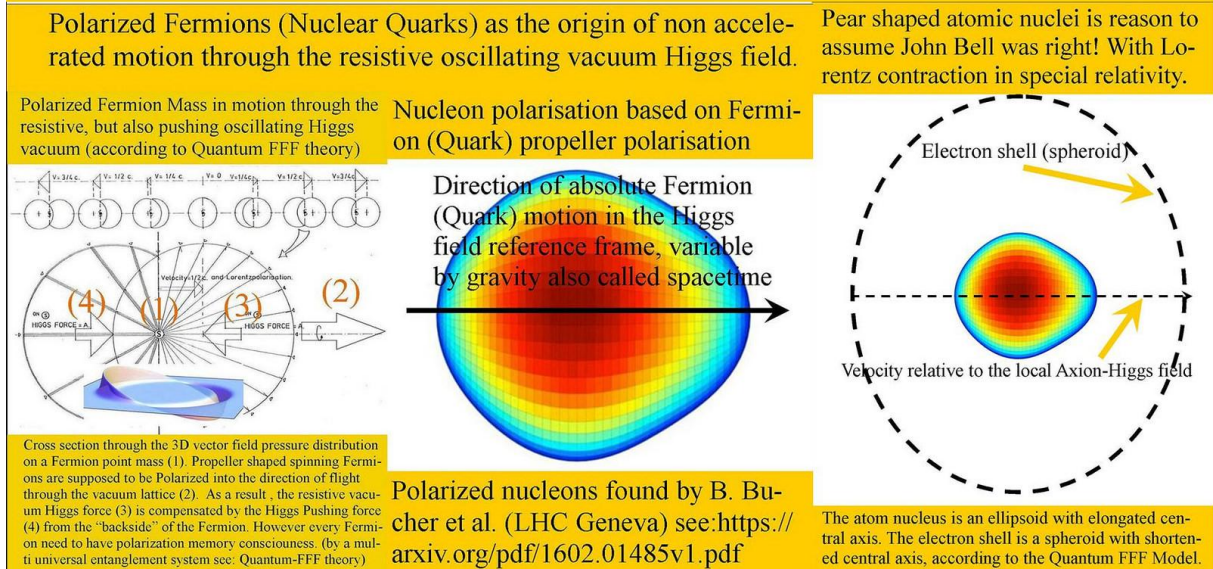


Figure 17, Lorentz Fitzgerald contraction is real in Quantum FFF Theory.

The basic elements of Quantum FFF Theory:

- 1: Black holes (BHs) are the same as Dark Matter, they all consume photons, even gravitons and the Axion-Higgs field, (for short: Higgs field) but REPEL Fermions due to their propeller shape polarisation away from the BH. They produce electric charged plasma.
- 2: Dark Energy is the oscillating (Casimir) energy of the massless Axion-Higgs Field equipped with a tetrahedron lattice structure with variable Planck length around black holes..
- 3: Quantum Gravity = Dual Push gravity= Attraction (Higgs-Casimir opposing Graviton push).

Axion-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 are also compound particles with an exception for the electron and positron..

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,

Then we are not alone with our thoughts and doubts, see:

Democratic Free Will in the instant Entangled Multiverse.

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 Axion-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.
vixra.org/pdf/1401.0071v2.pdf

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.

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