

Visualizing Subatomic Particles as Building Blocks of the Universe.

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Abstract,

In particle physics it is an interesting challenge to postulate that the rigid FORM and topological structure of elementary particles is the origin of different FUNCTIONS of these particles.

The resulting model is called “Quantum Function Follows Form” model.

As a consequence, the standard model could be extended with changes for supersymmetric Monopole Photons also acting as Gluons at subatomic distances and series of alternative Monopole Photonic bosons called Higgs particle of different masses (recent LHC measurements with bumps at 123.5GeV- 126 GeV , 350 GeV etcetera) based on different geometrical structures as a base for unstable- and stable black holes..

At the same time there seems to open a new field of physics around quantum gravity, interpreted as the result of dipole opposing pressure forcers between the oscillatory pressure of the massless Axion Higgs vacuum field and the fermion created graviton pressure.

The planetary mass related local lightspeed drag, and a pyrochlore topological superconductive vacuum.

In this paper I present possible 3D particle solutions based on only one complex 3-D ring shaped Axion-Higgs particle, which is equipped with three point like hinges and one splitting point, all four points divided equally over the ring surface.

The 3-D ring itself is postulated to represent the “**Virgin Mother**” of all other particles and is coined Axion-Higgs particle, the ring is equipped with 3-hinges coded (OOO), which gives the particle the opportunity to transform after real mechanical collision with other particles into a different shape, with a different function and interlocking abilities with other particles to form Quarks quantum knots and all other particles.

Thus in this Quantum Function Follows Form theory, the Axion-Higgs vacuum particle is interpreted as a massless singular transformer but rigid string particle able to create the universe by transforming its shape after real mechanical collision and merging with other shaped particles into complex and compound knots like quarks, W Z and Higgs particles of different masses and even ball lightning and other black hole nuclei.

If we assume that different massive Higgs particle knots are the origin of different evaporation times, then there is reason to assume that the trajectory lengths measured from the source, before evaporation are covariant, without any radiation curvature.

Introduction.

It is assumed that the vacuum is seeded with massive numbers of massless Axion-Higgs (A-Higgs) particles, all energetic oscillating inside a chiral vacuum lattice system and as such the origin and bearer of all energy in the universe.

If by a local energy excess, two A-Higgs particles collide with enough energy, it is assumed that an electron and positron emerges by internal hinge transformation.

Due to the propeller shape of the Fermions, these Fermions are assumed to spin by a constant collision and scattering process with the Higgs vacuum, changing A-Higgs particles continuously into different forms of Photon or Gluons.

This collision scattering process is proposed to be the base for the “eigen energy” of Fermions.

Thus Fermions are constantly consuming and transforming vacuum particle energy into photons and gluons.

As a consequence, in Quantum FFF Theory photons should be the same as gluons and gluons become photons after collision with local fermions (atomic fermions) or after 1cm distance being absorbed by the local vacuum.

As a result, I suggest that many “elementary” (Quarks, Z and W) particles should not be elementary, but compound constructions or KNOTS of transformed A-Higgs particles.

Even the Muon and Tau Lepton should be compound particles having the same shape as one of the different colored “naked” Down- respectively Charm Quarks.

Thus, Muon- and Tau particles are supposed to be naked Quarks!

Recent LHC (Large Hadron Collider) results are telling us that so called di-Higgs resonances lead to a variety of Higgs masses.

In Quantum FFF Theory however the real building block of the universe should be only the Axion-Higgs vacuum particle without any mass.

Thus di Higgs resonances are supposed to be the result of compound rigid string knots, such as Z Z WW knots based on electron positron strings ore combinations of three or four photon knots or -Photonic Molecules- as the result of photonic interference. (Figure 1 and 2)

Non local realism and massless vacuum Axion-Higgs in the multiverse.

Quantum FFF Theory is based on Non-Local Realism and rigid stringy Axion-Higgs particles able to mutate into all other particles.

The CP(T)-symmetrical raspberry shaped multiverse (with 8-12 berries) is non local instant connected down to each quantum. Each quantum can be visualized 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.

The basic elements:

1: Black holes (BHs) are the same as Dark Matter, is the same as triple or quadripole Higgs quantum knots they all consume photons, even gravitons and the Axion-Higgs field, (for short: Higgs field) but REPEL Fermions due to their

propeller shape polarization 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 pyrochlore tetrahedron lattice structure with variable Planck length around black holes..

3: Quantum Gravity = Dual Push gravity= Attraction (Higgs-Casimir opposing Graviton

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 Axion-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 visualized 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

Historic references.

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 Vigièr 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 Vigièr, 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.

Rigid Photonic Molecules called Particle Knots or Higgs Dark Matter Black Holes, with different mass and evaporation lifetimes. According to Quantum FFF Theory.

125GeV+375gEv=500GeV And More

500GeV

375GeV+375gEv=750GeV

2x750GeV+125=1625GeV

Some suggested ring configurations

Figure 1, Multiple combination of quantum knots. Knot 1: left: three magnetic monopole photons (125 GeV, silver) Knot 2: right: 4x x-ray photons (375 GeV, black)

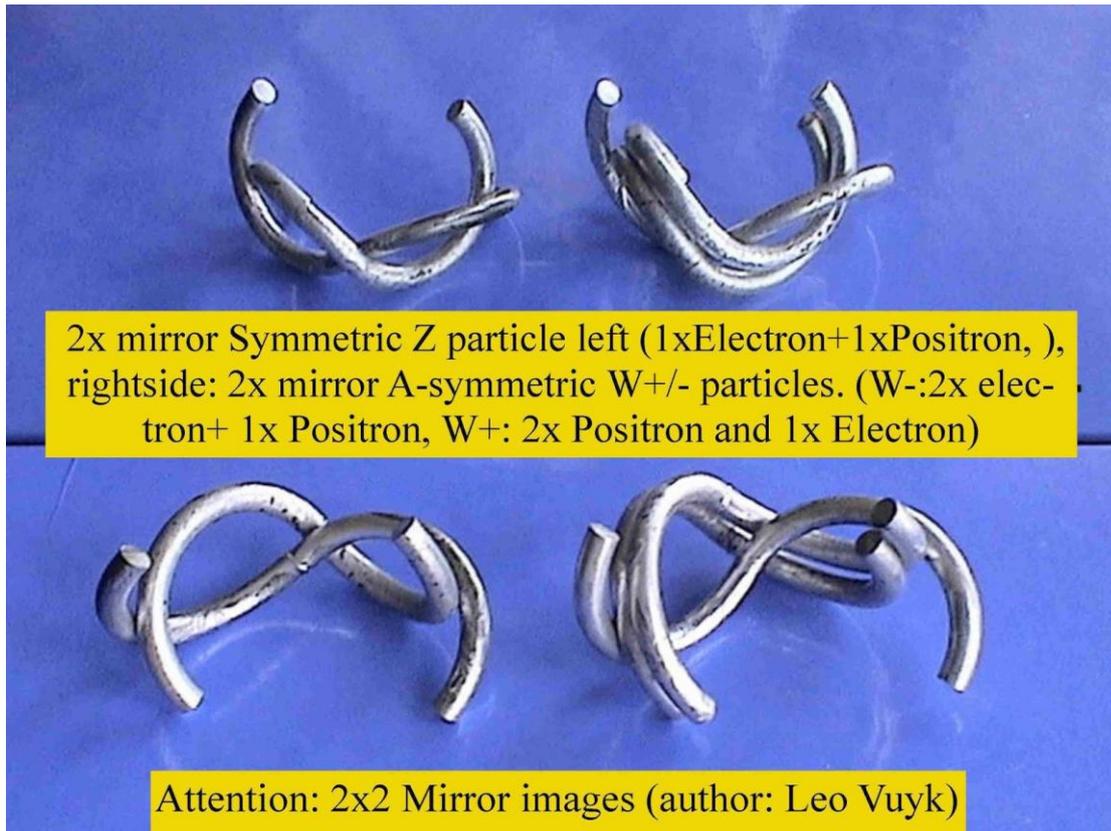


Figure 2 Geometric proposal for the Z and W particles. Z particles are symmetrical without propeller spin effects. W particles are not symmetrical with propeller spin effect left or right spin.

A combination of multiple Z particles could lead to Z-Z decay with 650 GeV as measured by the LHC.

Dual Z particles: a combination of 2x electrons and 2x positrons, according to the Quantum FFF Model.

LHC-CMS in ZZ channel. The massless transformable ring shaped Axion /Higgs vacuum particle is supposed to act as the mother of all single and compound rigid string particles fermions/neutrinos, photons etc. Massive ZZ particles are compound electron /positron interlockers, with 650 GeV in the LHC-CMS (example below)



Figure 3, the massive ZZ channel particles.

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)



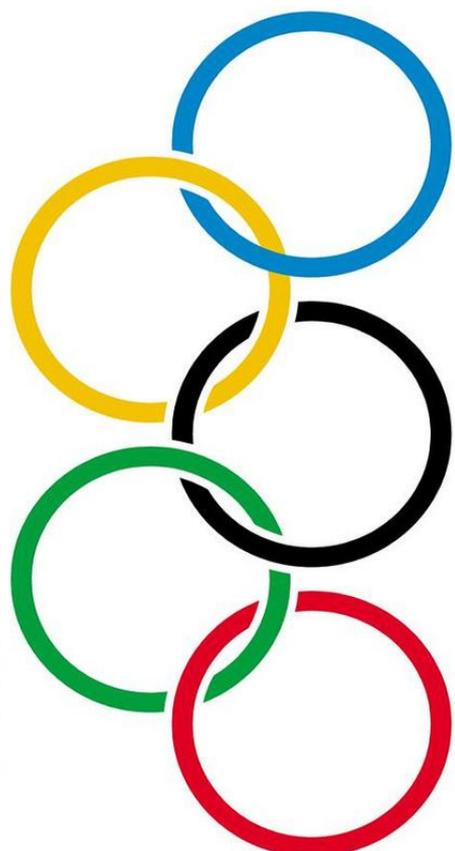
$125\text{GeV} + 375\text{GeV} = 500\text{GeV}$ And More

500GeV

$375\text{GeV} + 375\text{GeV} = 750\text{GeV}$

$2 \times 750\text{GeV} + 125 = 1625\text{GeV}$

Some suggested ring configurations



Some other combinations



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

Figure 4, The geometric principle of Quantum FFFModel.

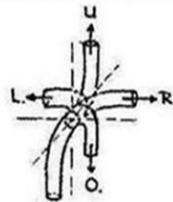
Alternative Standard Model of Quantum FFF Theory

With ONE Axion-Higgs Mother particle

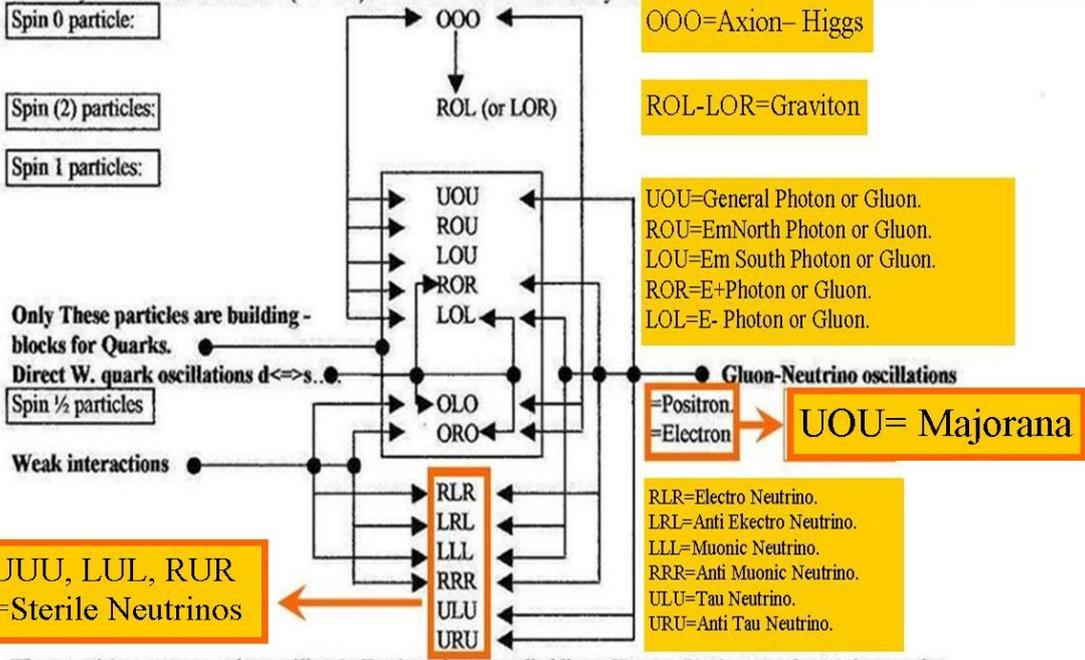
The Axion- Higgs Vacuum Field particle is coded OOO, representing three closed Rigid String hinges of the mother rigid ring, able to rotate in steps over 90 degrees into L,U and R: Left Up and Right,

Explanation of the codes:

- U= Up rotation (180 degrees)
- O= Unchanged circle.
- L= Left rotation (90 degrees)
- R= Right rotation (90 degrees)



Summary with oscillation routes : (↔) or the definite Graviton decay route (→)



Higgs particles are supposed to oscillate in Tandem along so called linear Vacuum Lattices, two by two in opposite directions, as the symmetrical opposite pistons of a boxer engine, as the origin of all energy, spin and mass effects. This enables the Tandem Higgs particles to change the form of their own Torus into an Electron and Positron pair at

Figure 5, The basic geometric transformation rotation principles (R,O,L,U) of visualizing subatomic particles of the Quantum FFF Model

Geometry of a new Physics 3-Dimensional Particle system according to Quantum FFF Theory.

OOO= Higgs particle equipped with internal three HINGES and 79 possibilities for 90 degree rotation. (see below) due to symmetry reasons (underscored particles) only 42 different shaped particles remain. Only 15 different shaped particles are needed to construct all standard model particles according to the Quantum FFF Theory model. (See right panel)

LOO-LOL-LOU-LOR—ROL-UOL-LOL-OOL
LLO-LLL-LLU-LLR—RLL-ULL-LLL-OLL
LUO-LUL-LUU-LUR—RUL-UUL-LUL-OUL
LRO-LRL-LRU-LRR---RRL-URL-LRL-ORL

E photon: LOL ROR
 M photon: LOU ROU
 X-ray /vis photon: UOU
 Graviton; ROL (or LOR)

ROO-ROR-ROU-ROL---LOR-UOR-ROR-OOR
RLO-RLR-RLU-RLL---LLR-ULR-RLR-OLR
RUO-RUR-RUU-RUL---LUR-UUR-RUR-OUR
RRO-RRR-RRU-RRL---LRR-URR-RRR-ORR

Electron: ORO.
 Positron: OLO.
 Majorana: OOU

UOO-UOU-OOU
ULO-ULU-OLU
UOO-UUU-OUU
URO-URU-ORU

HINGE ROTATIONS

O= Ring shape
 L= Left 90 degr.
 R= Right 90 degr.
 U=Up 180 degr.

Neutrinos:
 LLL-RRR = ν E (+/-)
 LLU-RRU = ν Mu (+/-)
 ULU URU = ν Tau (+/-)

OLO-ORO-OOU. Calabi Yau rotation result.

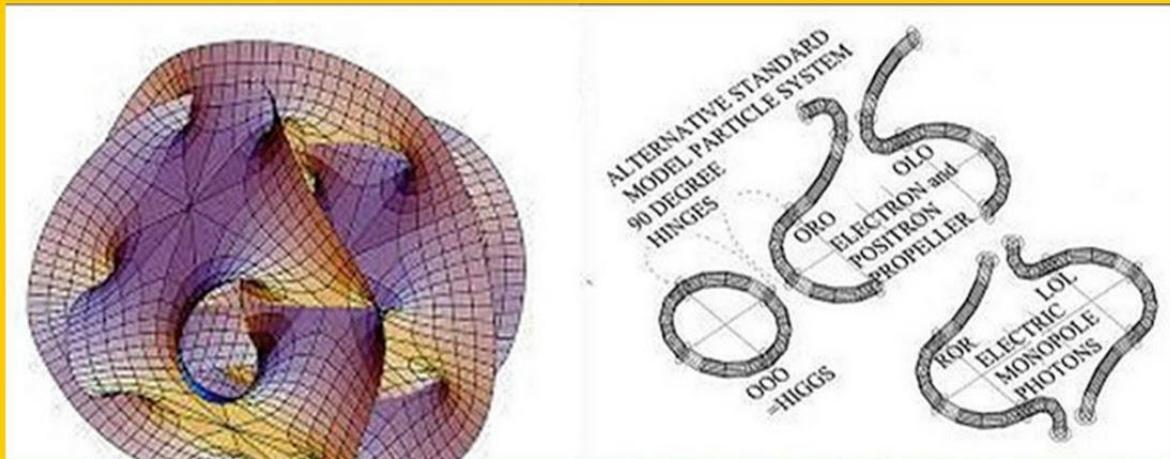


Figure 6, The principle based on 3x hinge rotations of 90 degrees.

Dual Rigid String Pressure Gravity between the oscillating dark energy (3) of the Axion Higgs field and opposing Graviton pressure energy (6) according to Quantum FFF Theory.

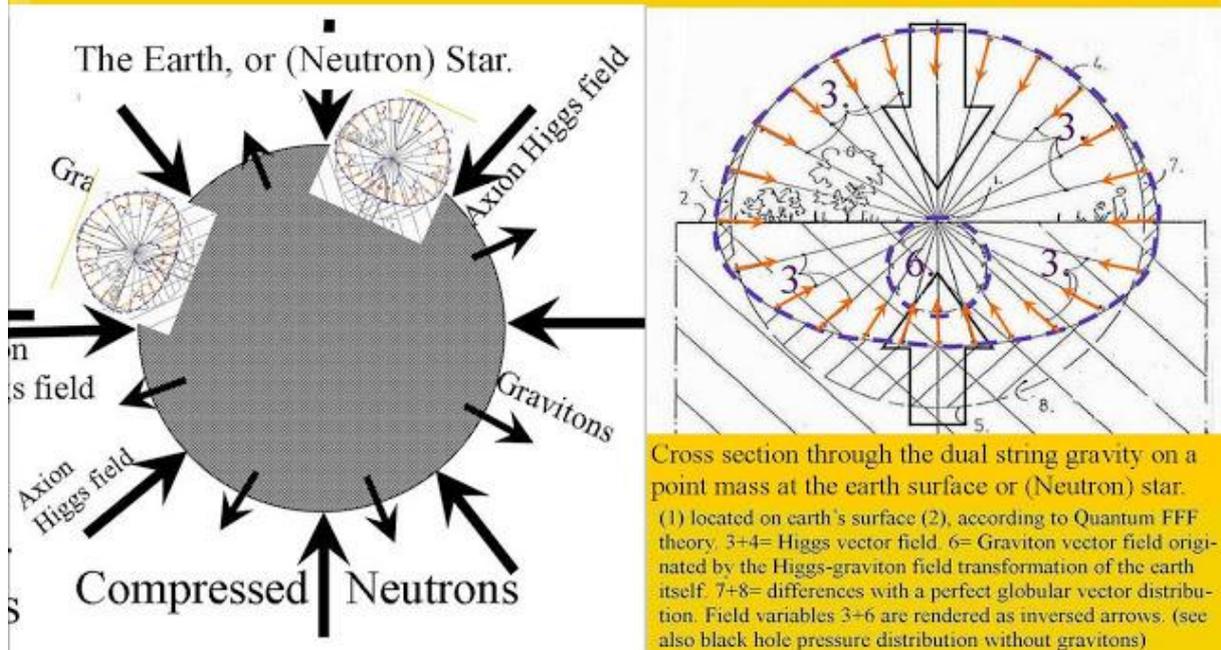


Figure 7, Dipole pressure quantum gravity.

Comparison of Fermion spin/radiation diagram of Quantum FFF Theory (stiff propeller string with monopole radiation 1,2,3) and the Penrose diagram (flexible string with closed radiation loops: 4)

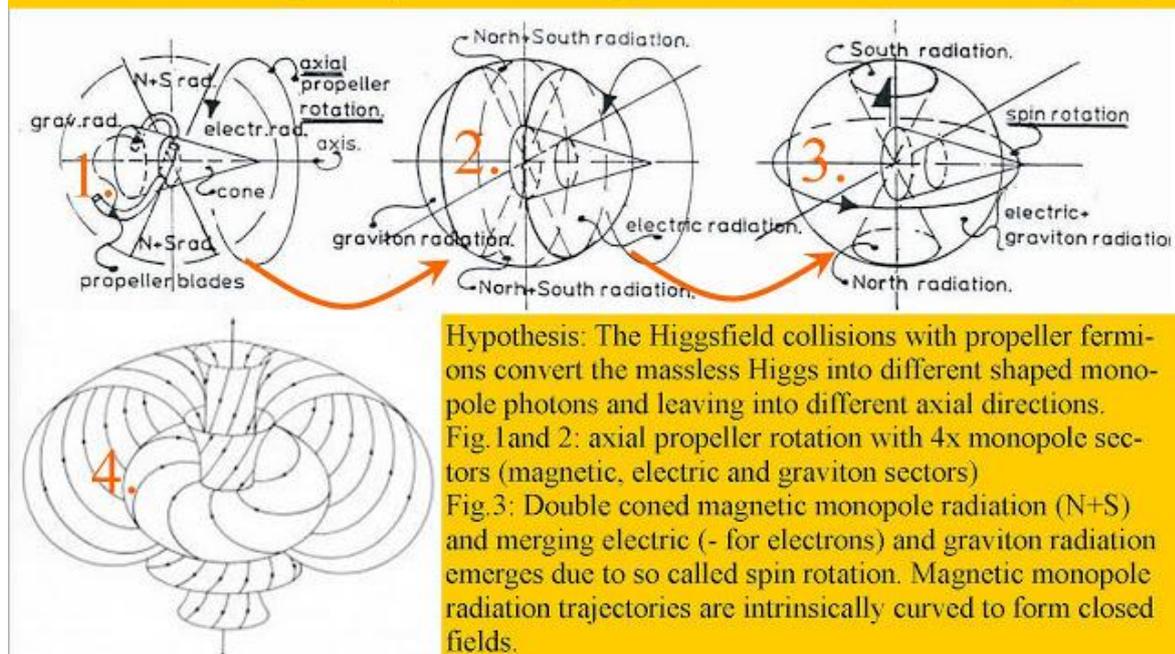


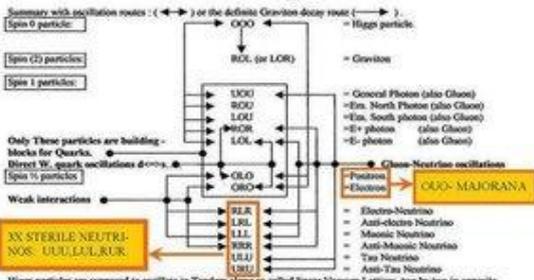
Figure 8, Rigid string fermion propeller, as the **particle mill** to change Axion/Higgs particles into different directional monopole photons (Called Gluons at less than 1 cm distance from the source)

Sterile Neutrinos and Majoranas seem to have different origins according to the 3x hinged rigid string system of Quantum Function Follows Form model.

MAJORANA particle's placed in the new extended standard model based on Q-FFF Theory. OOU is e-e+ related, UUU, LUL,RUR are Neutrino related. Called sterile Neutrinos.

The coding of Single Elementary Particles is based on the so called "rotational click positions" of the three hinges, which are assumed to be regularly placed over the ring shaped Higgs "Quatern Torus Particle" (page 2). This ring has one splitting point and three hinges which have consequently four 90 degree click positions each. The best Torus ring diameter ratio to click-on is about 1/7. The ring coding of the hinges positions is as follows.

Explanation of the codes:
 U= Up rotation (180 degrees)
 O= Unchanged circle
 L= Left rotation (90 degrees)
 R= Right rotation (90 degrees)



Higgs particles are supposed to oscillate in Tandem string as called linear Vacuum Lattices, two by two in opposite directions, as the symmetrical opposite pistons of a boxer engine, as the origin of all energy, spin and mass effects. This enables the Tandem Higgs particles to change the form of their own Torus into an Electron and Positron pair at



Geometrical proposal for most particles building the universe



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. According to Quantum FFF Theory. (Function Follows Form in particle physics)



All Photons (1x, graviton, 2x electr- 2x magnetic- and 1x general (x-gamma-ray) photon) and two Fermions (Electron + Positron) are formed direct out of the "Mother" ring shaped Higgs particle, by internal hinge rotation (below). Dark Matter particles are supposed to be formed by interlocking 3 or 4 photons (below). Neutrinos are deformed photons or fermions. (not shown) See Quantum FFF Theory. (Function Follows Form) <http://vixra.org/abs/1103.0002>



↓ 3D base for 3x hinged rigid strings.



OOO,-ROL-UOU,ROU,LOU,ROR,LOL,-OLO,ORO-RUR,LRL,LLL,RRR,ULU,URU.

Figure 9, Visualization of 15 different shaped singular supersymmetric particles. 1x graviton, 2xfermions (electron-positron), 5x photos, also gluons, 6x Neutrinos.

Pair production by Axion Higgs Field particle collision at black hole horizons (Q-FFF Theory)

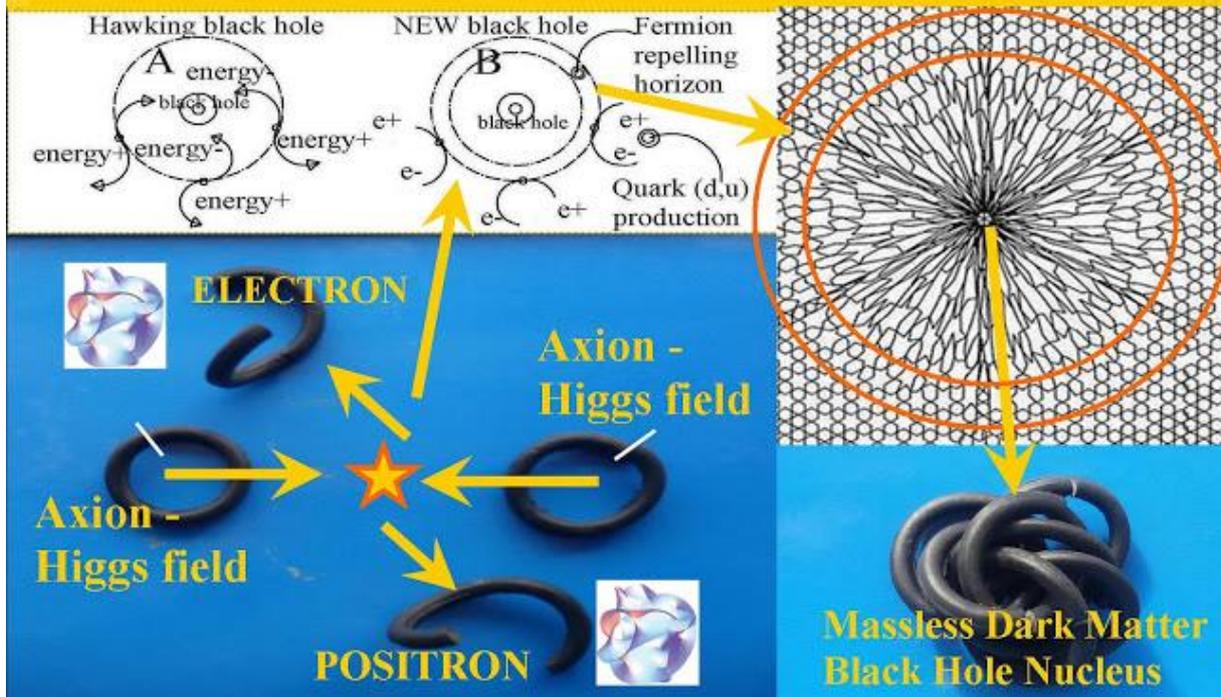


Figure 10, Pair production around black hole horizons by colliding field particles.

Calabi Yau manifolds by dual Fermion propeller rotation

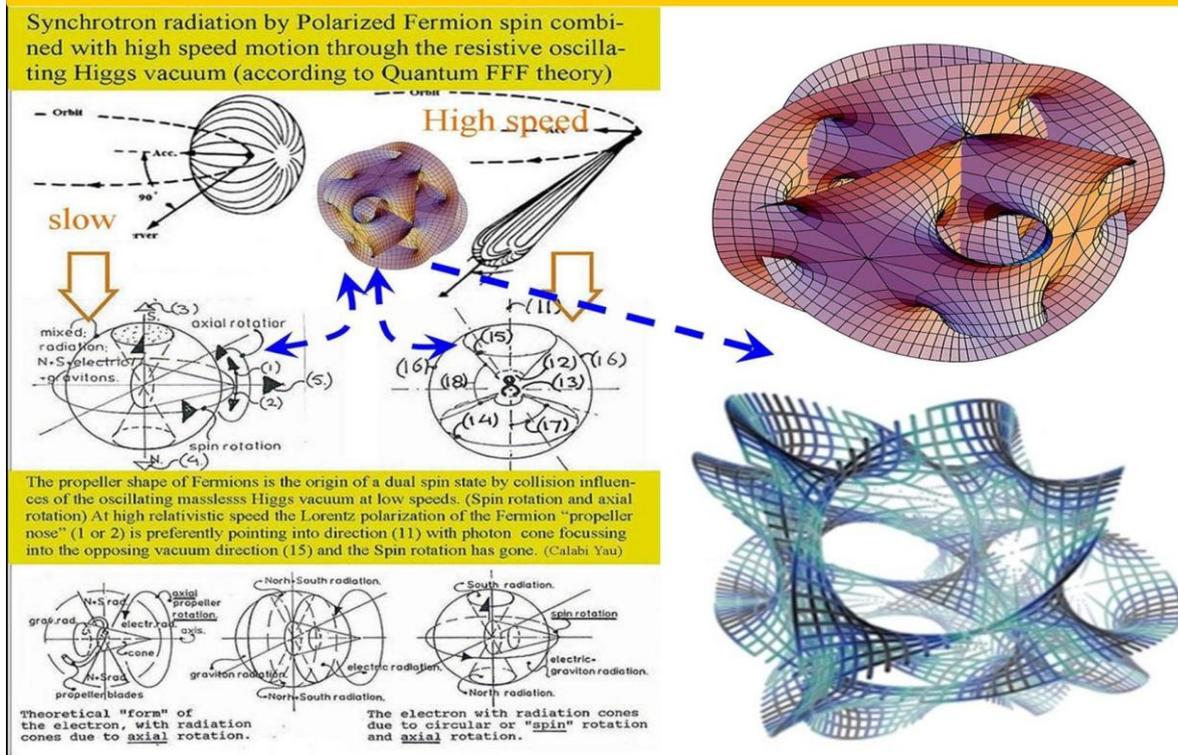
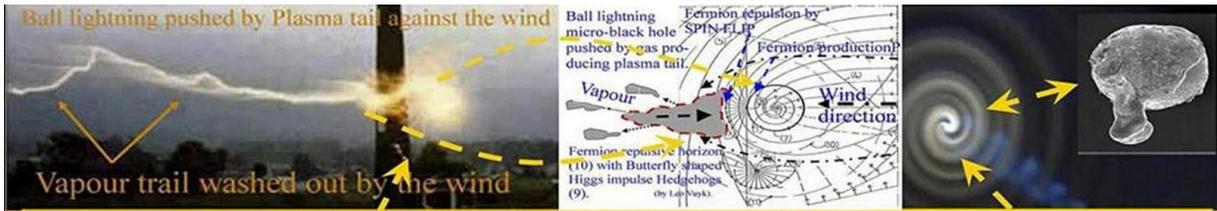


Figure 11, Calabi Yau manifolds by fermion propeller rotation.



Self propelled Ball Lightning-Micro Comets.

What is wrong with Physics?

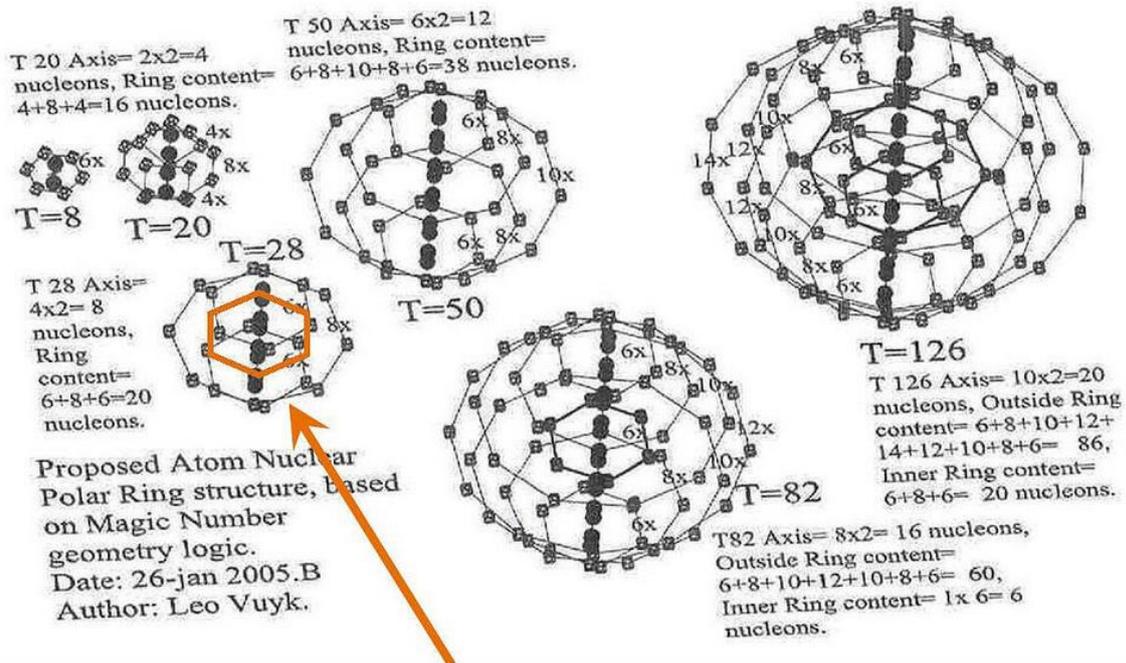
- 1: Gravity is a dual Pressure Force.
- 2: The Vacuum has resistance for ALL motion.
- 3: Black Holes Repel ALL Fermions.
- 4: The Raspberry Multiverse has 8 or 12 symmetric anti-copy universes, which is the origin of uncertainty, Human Consciousness and Inertia !



Micro Comets (micro black holes)

Figure 12 What is wrong with physics?

Geometry of the New Magic number nucleus with 34 nucleons, found by RIBF/Riken. Japan, (D.Steppenbeck) according to Quantum FFF Theory.



Additional equatorial positioned coaxial ring structure with 6x nucleons in the centre of the nucleus.

Result: $T = 28 + 6$ nucleons becomes $T = 34$. (oct.2013).

Future evidence for additional nucleon rings (+6+8 or 10) inside nuclei coded: $T = 50-82$ or 126 seems to be possible.

Figure 13, Geometry of atom nuclei, based on magic number sequence, leading to coaxial ring structures.

New Black Hole Nuclear Interior with primal Rigid transformable ring shaped Strings (Axion Higgs vacuum rings) compressed by the oscillating repeller vacuum. (Quantum FFF Theory)

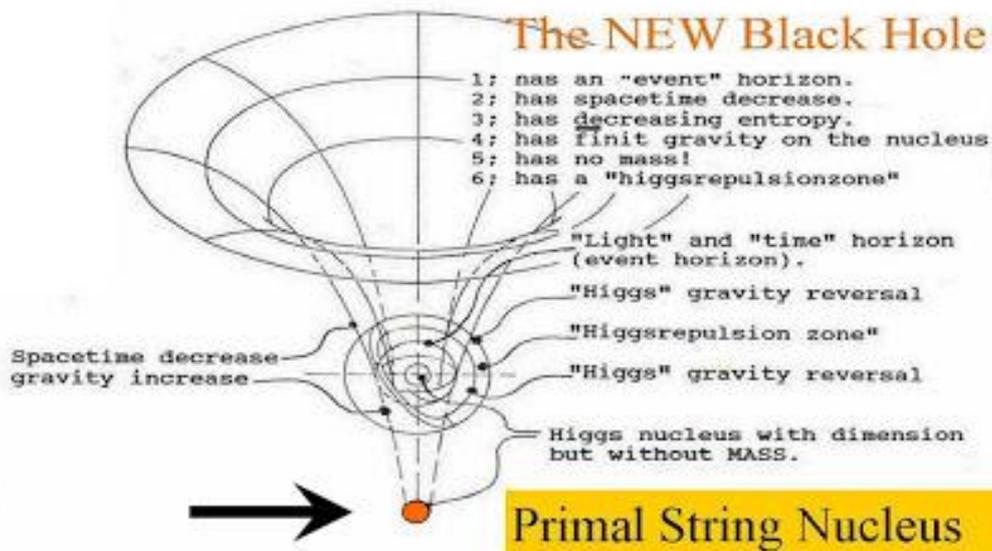


Figure 14, Black hole interior with primal closed string, compressed by the oscillating Axion Higgs vacuum.

The Nucleus of the Rigid String Knotty
Black Hole, compressed and growing
by the Axion Higgs vacuum.
(According to Quantum FFF Theory)

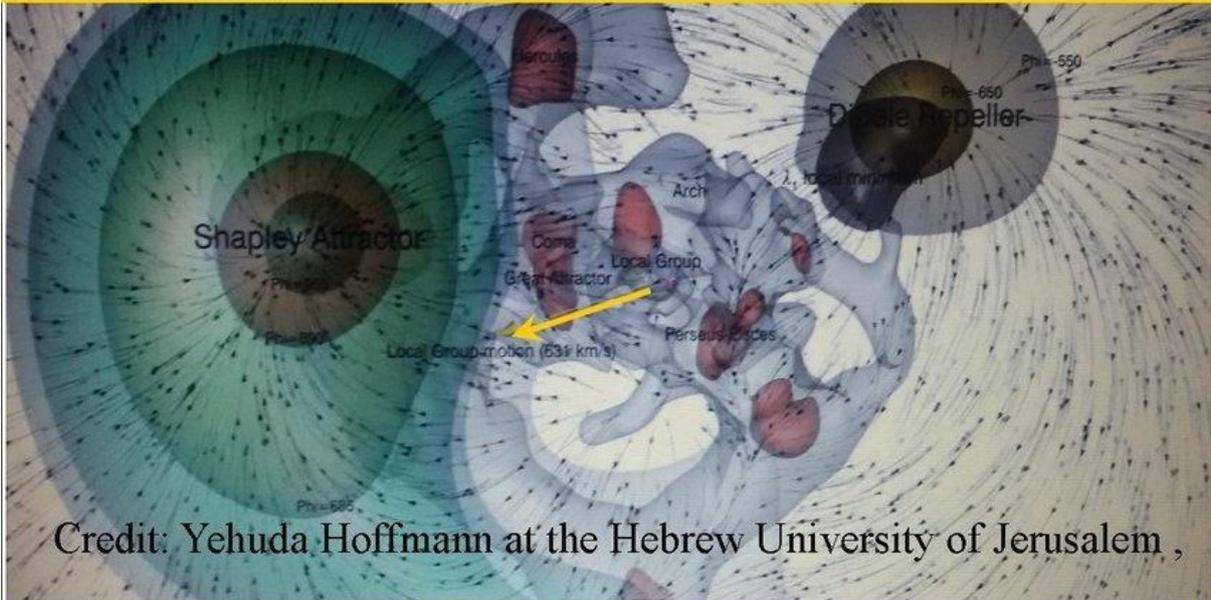


A ball of stringy particles, compressed by the energy of the oscillating Axion Higgs particle based vacuum lattice= (Casimir) Dark Energy. The BH nucleus itself is Dark Matter.
Conclusion: all stable BH nuclei represent all Dark Matter in the universe.
Non stable evaporating BH nuclei can be called Ball Lightning or micro comets.

Figure 15, Black hole nucleus.

Quantum Dipole Repeller Gravity pushing our Galaxy.

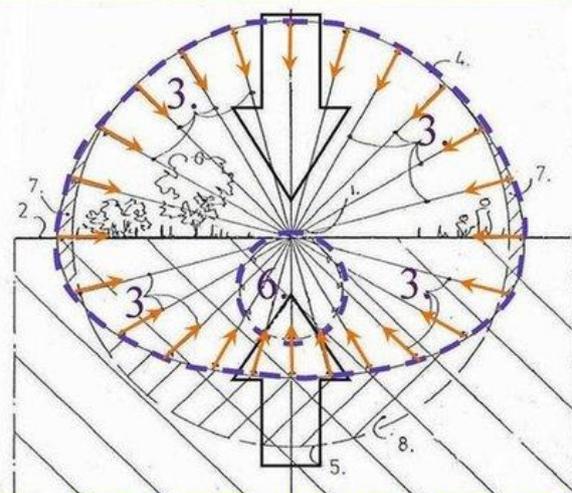
According to Quantum FFF Theory, empty space is filled with a fast oscillating lattice of massless Axion-Higgs field particles as a half base for our opposing dipole pressure Higgs-graviton gravity on earth. Now prof. Yehuda Hoffman shows us a support for this hypothesis.



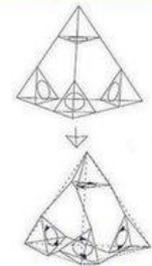
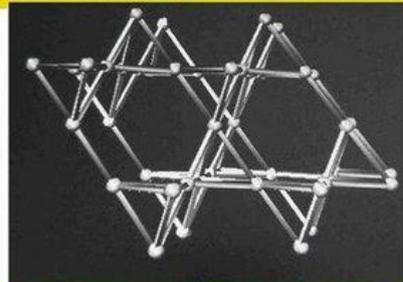
Credit: Yehuda Hoffmann at the Hebrew University of Jerusalem ,

Quantum Gravity as pressure distribution of the oscillating dual Higgs/Graviton vector field.

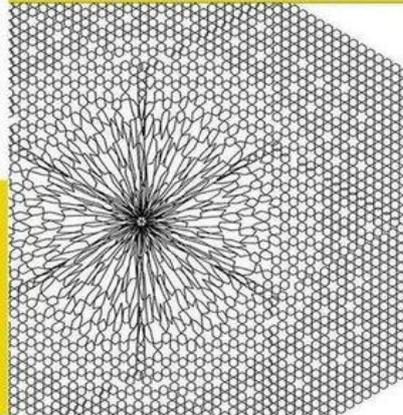
New Dark Matter Black Hole, "Eat" the chiral oscillating Higgs vacuum.(Quantum-FFF Theory)



Cross section through the dual Higgs/ Graviton 3D vector field pressure distribution (or globular Hedgehog) on a point mass (1) located on earth's surface (2), according to Quantum FFF theory. 3+4= Higgs vector field. 6= Graviton vector field originated by the Higgs-graviton field transformation of the earth itself. 7+8= differences with a perfect globular vector distribution. Field variables 3+6 are rendered as inversed arrows. (see also black hole pressure distribution without gravitons)



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

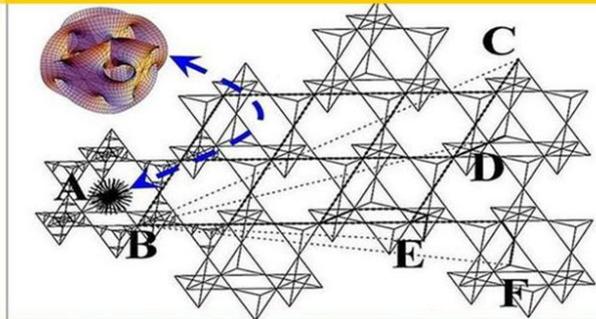


Black holes EAT the vacuum lattice with the oscillating Higgs particles. So, the vacuum lattice structure around a black hole could be represented like this. As a result, the near vacuum is thinner or diluted, it has holes, which could be the origin of the Universal HUBBLE redshift. By contrast, my new 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 16, The difference in vacuum pressure and graviton pressure: Quantum Dipole repeller gravity. See also: Y Hoffman.

The Origin of Hexagonal structure of laser light?

Light travelling through the oscillating Axion Higgs particle based tetrahedral vacuum lattice could create hexagonal effect.



Path integral or Sum over Histories (Feynman) visual represented for the Axion-Higgs tetrahedral vacuum lattice, according to Quantum FFF Theory.

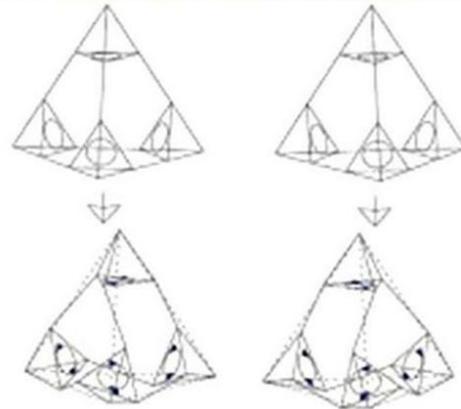
There are two field trajectory systems: one for Photon information transfer (black Lines: B,C,D,E and F) and one for real transportation of Fermions, Bosons and Gluons (A).

The Gluons are assumed to mutate after about 1 cm (see: Babcock and Bergman experiment) into a monopole Photon, which does not travel but oscillate as local vacuum particle, transferring photon information with the local speed of light.

Fermions are propeller shaped and assumed to form a Calabi Yaw rotational surface.

If the chirality of all the tetrahedron ribs has a total of 60 degrees rotation, then at vertex points, the information transfer has only two equal choices to reach the next tetrahedron rib, as is assumed for the Path integral solution.

Two different tetrahedron space fill systems with left or right hand chirality, needed to make material or anti-material universes.



Space fill unit with RIGHT hand rotation. Space fill unit with LEFT hand rotation.

See: <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.99.013848>

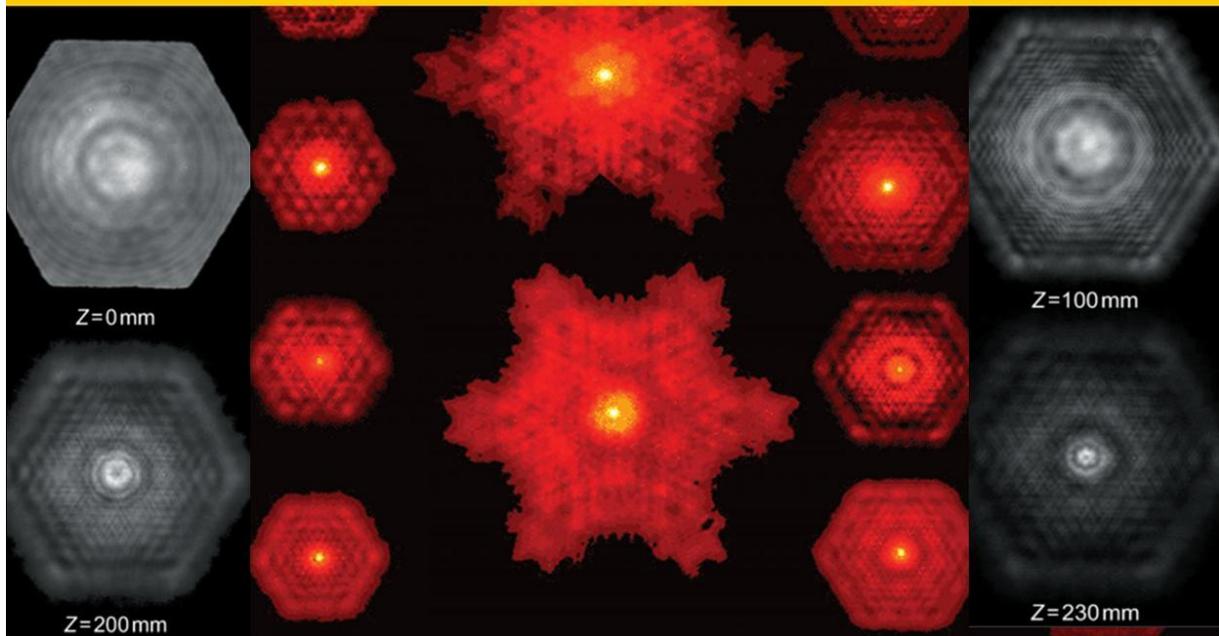
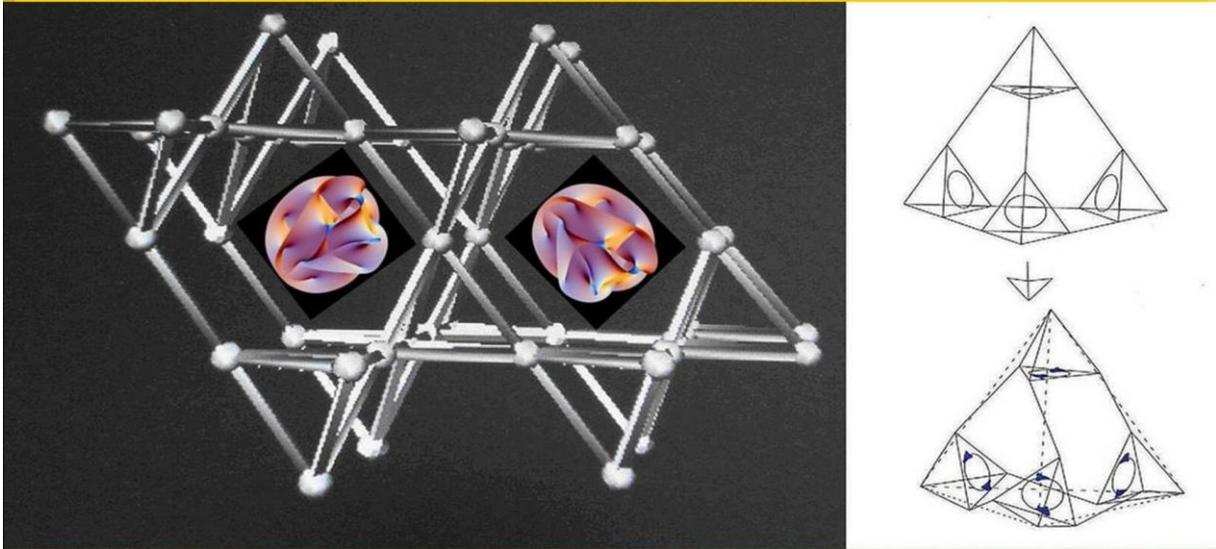


Figure 17, The origin of the hexagonal structure of laser light: the pyrochlore chiral tetrahedron vacuum

Calabi Yau propeller fermions inside the Axion-Higgs vacuum lattice

Chiral pyrochlore tetrahedral vacuum structure with oscillating Axion Higgs strings between nodes, are supposed to be the origin of Dark Energy of the vacuum, and the motor for all “eigen energies” of propeller shaped Fermions, (according 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.

Figure 18, Calabi Yau propeller fermions inside the oscillating Axion Higgs vacuum lattices origin of all fermionic “eigen energy”.

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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/>

- References: 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>
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- [119] viXra:1902.0201 Novel Ideas About Dark Matter and the SuSy Multiverse.
[118] viXra:1901.0426 4x and 3x Interference for Stringy Bose Einstein Black Hole Production.
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[116] viXra:1812.0095 $E = \text{not } Mc^2$ in Massless Black Holes According to Quantum FFF Theory.
[115] viXra:1811.0125 Testing Proposals for Human Free Will in the Raspberry Multiverse, Local Entanglement and M&M Lightspeed.
[114] viXra:1811.0002 Big Bang Energy out of Nothing, or a Compressed Rigid String
[113] viXra:1809.0189 Apparent Violation of the Second Law, Around Black Hole Nuclei and Other Quantum Knots.
[112] viXra:1807.0437 Preference for Dual Herbig Haro Black Hole Consumption by the Central MW Black Hole, Leaving Plasma Jets Behind.
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[110] viXra:1806.0298 Expanding Earth, by Growing Water based Crashed Comet
[109] viXra:1806.0068 Primordial Electric Dark Matter Black Holes Outside Galaxies
[108] viXra:1805.0541 Tidal Star Disruption Events (TDE) by Fermion Repelling Black Holes in Quantum FFF Theory.
[107] viXra:1805.0307 Fulgurite Created by Lightning Bullet Also Known as Ball Lightning, According to Quantum FFF Theory.
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