Novel Ideas About Dark Matter and the SuSy Multiverse.

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Abstract.

Recent discussions about the need for a successor of the Large Hadron Collider called the FCC Future Circular Collider (Cern), is reason to search for “Tweaks” or extensions of the current paradigms about Wimps (Weak Interacting Massive Particles) and Super Symmetric particles.
Example: Nima Arkani-Hamed: “where in the world are SuSy and Wimps? Quantum FFF Theory (Function Follows Form) seems to be able to fill in those questions by an adapted paradigm about special relativity, the SuSy multiverse based on instant entangled super symmetric particles and the suggestion for monopole photon based microscopic Wimps and Dark Matter Black Holes.

Introduction,

According to Quantum FFF Theory, (Function Follows Form) the process of wave function collapse of two entangled particles into mirror symmetrical states, is the basic process for all created particles. As a consequence, we should live inside one part of a mirror Charge-Parity-symmetrical entangled SuSy MULTIVERSE with one central origin the big bang.

We give it the name: Raspberry Multiverse.

Even human choice making should be subjected to this mirror symmetrical process.

Benjamin Libet described a choice experiment, which we could use to measure how many copy universes there should be.

At the smaller scale however, we observe also entanglement effects between particles.

Einstein called them “spooky action at a distance”, which he did not like and suggested a different explanation called “Hidden Variables”.

However I present here a support for the spooky faster than light entanglement explanation, based on an extended Stern Gerlach experiment, in line with J.S Bell’s arguments about a strange aspect of the original experiment.

That even the lightspeed constancy theory should be adapted, by a different Michelson Morley experiment seems to be a logic result of the Quantum FFF Model.

The Schrödinger’s cat thought experiment, is an example of how the problem of choice making at the quantum level, or wavefunction collapse in physics can be described.

According to the Copenhagen interpretation of Quantum mechanics: only by looking into the box, we seem to be able to influence the collapse of the wave function of the living cat. Before that moment we have to accept that the cat is in two uncertain states alive and dead.
At the same time it is assumed that our conscious mind as observer, should be able to influence the wavefunction collapse as soon as the box is open.
The logic of this interpretation seems to be that we humans are the unique observers of a unique universe.
However, if we live inside one of the two (or even more) mirror symmetrical entangled Copy universes, then the problem is solved, because in that case there is no uncertainty any more about the cat at the quantum level or our own choice making.
Then, at the quantum level the choice is already made about the collapse of the wavefunction between the mirror symmetric quanta by the entanglement relation between each set of quanta, even if these quanta are separated at huge multiverse distances.
If in our material universe the cat stays alive, he also will live in the mirror anti-material universe, caused by the mirror symmetry of the entanglement relation. In this way those mirror universes will always stay each others mirror copies even at the quantum level.
In addition to this interpretation of the wave function collapse, we described the possibility that the Big Bang process should be interpreted as part of a continuous process of the cyclic raspberry shaped multiverse.
The Big Crunch black hole nucleus, filled with most of all the Higgs and other particles Ref. [1, -5,], making the universe what it was before, should be the start of a new evaporation and splitting process of matter creation and distribution in the form of the so called Lyman alpha Forest inside each egg shaped universe. (figure 1, -3).
Thus the splitting of the giant Big Crunch Black Hole is assumed to be an entangled mirror symmetrical process in the Raspberry Multiverse and the start of all matter creation.

TIME in the Multiverse, is assumed to run forward (right-handedness of clocks) because the universe seems to be a huge pinball machine. The energetic oscillating Higgs particles are in constant collision with real spinning Fermions.
Spinning Fermions (the pinball) are driven by the oscillating Higgs field (the electric pinball machine springs) which is also 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 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. Ref.[2]
However, as a consequence, it is a shock to realise that I am not alone inside the Multiverse, there must be at least ONE entangled COPY of ME who also tries to make decisions and is influencing me.
Benjamin Libet’s experiment on human decision making could help us understand this phenomenon. Libet measured electronic brain activity differences between Readiness Potential I and II, which he did not understand.
Future Libet-experiments focussed on the statistics of the differences between RPI and RPII will be indications of the number of entangled universes inside our Multiverse. (fig. 7)
That even the lightspeed constancy theory should be adapted by an adapted Michelson Morley experiment seems to be a logic result of the Quantum FFF Model. (ref 4, 8, fig 10).
Figure 1, Cross section through the Big Crunch Black Hole splitting process starting at point A. A VOID is left behind between the EGG shaped individual universes because here no quarks of fermions will survive.

Figure 2, Cross section through a raspberry multiverse with indication for the Lyman Alpha forest inside one egg shaped universe.

The Big crunch black hole splitting and pairing process is assumed to be the origin of a BUSHY structure of the matter distribution in our visible universe, which is known as the so called Lyman Alpha forest.
The raspberry multiverse.

The CPT symmetric raspberry universe seems to be the result of Fractal shaped evaporation, of the content of a cyclic central big crunch black hole, into egg shaped bubbles with individual Cosmic Microwave Background. (CPT= Charge Parity and Time)

3-D suggestion for the solution of the so called "MISSING GALAXY SHADOWS". All the Galaxy (clusters) located behind the WMAP CMB boundary (outside our own universe) do not create some kind of SHADOW on the 2.7 Kelvin cosmic background radiation.

2-D Section through the raspberry multiverse, with huge void in the middle. The void in the middle is supposed to be originated by the start of the Fractal process, when the vacuum density of the former cyclic multiverse was still too high for a fine grained fractal process (see my book).

Future research should provide evidence that the distribution geometry of galaxy clusters without a CMB background shadow, is found in the inner part of our egg shaped universe, due to the presence of the external Multiverse galaxies.

In the external part of the hemisphere of our egg shaped universe, all galaxy clusters should show up with a clear CMB background shadow. The angles which could be measured between the inner and outer hemisphere will be an indication of the observer location inside our own universe.

Figure 3, Cross section through a Raspberry Multiverse with 12 entangled universes in dodecahedron structure. The absence of a Cosmic Background shadow in the WMAP is called the Sunyaev-Zel'dovich effect and found in a sample of 31 clusters. Ref.[7].
Figure 4. There are by now only four Low Variance circles found inside the WMAP sky. (according to R. Penrose) However there could be a fifth circle at equatorial position now hidden behind our own Galaxy. This would be a clear indication for a raspberry shaped Multiverse with 12 entangled universes in dodecahedral structure. 4 low variance circles however are pointing into the direction of a cube octahedron geometry of the multiverse bubbles. (fig 5 below)

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.

Figure 5. The cube- and cube octahedron multiverse configuration, based on three or four fluctuation anomalies.
The Bouncing Multiverse 2

According to Quantum FFF Theory, we live inside one of a specific number of Charge Parity symmetric copy universes coming out of a huge (Axion/Higgs rigid string black hole nucleus = Dark Matter). All copy string particles are guided by long distance (holographic) multiverse entanglement and transformable by mutual collision into all Standard model particles and more. Such as monopole bosons or massless Axion/Higgs vacuum particles (Dark Energy), responsible for the Casimir effect and half of all other SM semi pressure forces.

Figure 6. The bouncing multiverse poster.
If humans are cooperating decision makers inside the postulated 8 or 12 entangled but separated universes, then for every decision we need one preplanning test-person who pre-plans his choice. The other 7 or 11 test copy-persons are only able to follow OR REJECT this decision.

As a result we may be able to measure (in the future) the number of copy universes involved, by counting the average percentages of preplanning persons in test situation like the Libet test.

For 12 universes the RPI percentage will be 100/12=8,3%. For 8 universes RP I will be 12,5%. For RP II it will be 91,7 respectively 87,5%.

![Diagram](image)

Electric Readiness Potential (RP) Test results made by B.Libet, listed for test persons (4x) and for the test person’s ideas about preplanning before making the decision to press the bel.

RPI is without preplanning, RPII is with preplanning!

Figure 7, The difference between RP I and RPII found by B. Libet, with over layer printed percentages for different numbers (8 or 12) of entangled universes to be found in future experiments. See [ref 9]
Entanglement between universes can be interpreted as a new vision on reality.

I expect this is also the case for a new kind of entanglement between evaporated silver atoms in- and outside the oven. (see below)

This would solve the Stern Gerlach mystery described by John S. Bell. [ref. 10]

A new kind of Entanglement in a Double Stern Gerlach Experiment ...

The traditional Stern Gerlach experiment.

The New experiment with TWO S-G Magnets always ON

Figure 8, To solve the Q.M. problem described by J.S.Bell about the standard Stern Gerlach experiment. Experiment proposal to support the existence of a new kind of Entanglement, which should show up inside a double Stern Gerlach experiment with two S-G magnets with different orientation.

The proposal for this experiment, is based on the hypothesis that all heated and vaporized silver atoms inside the silver oven are entangled as a whole and that magnetic measurement of one atom travelling outside the oven influences the magnetic polarity of all the other atoms in the oven.

If the oven sends the silver atoms (by shutters) alternately to the two magnets, then the resulting impact pattern on both screens will show an additional BAR in the middle of the original impact pattern. (see figure 8)

This could be the explanation for the fact that only up and down orientated atoms should enter into the S-G magnet to explain the “non smearing” effect on the screen.

John S. Bell described his doubts about the Stern Gerlach experiment interpretation in his book: “Speakable and unspeakable in Quantum Mechanics on chapter 16 page 140-141. Ref, [6].

John Bell argued that there is no logic to be found behind the fact, that there is a so called “absence of smearing” of the particle impact pattern on the screen.
In dual entangled CP (Charge Parity) symmetric mirror universes all quanta have complementarity in the other universe. So even the left and right slit of the one photon double slit experiment.

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.

Bohmian Mechanics suggested already such a non local reality.

Figure 9. "I Think, Therefore I am", (Descartes) should be changed into: WE Think Therefore We are, able to Veto Multiverse ideas and Earn Free Will. according to Quantum FFF Theory.

Additional features:
Michelson and Morley revised by Dual satellite lightspeed mass dragging test.

Local variable lightspeed by gravity related LASOF. According to Quantum FFF Theory, the earth gravity related LASOF (Local A Symmetric Oscillating vacuum Frame) is dragging the lightspeed inside an ellipsoidal shaped speed transition volume around the earth inside the solar reference LASOF, with full extinction effect at the edges.

Earth–Solar orbit speed is 30 km/sec to the right.

Figure 10. Michelson Morley experiment revised.
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 11. The Black Hole Nucleus: a ball of strings compressed by the oscillating Axion Higgs Ether.
Figure 22, Ball Lightning and Micro Comets, based on new massless Dark Matter Black Hole paradigm.

Figure 33, Production hypothesis for quantum knot string black hole nuclei based ball lightning and Sprites, by EM monopole interference.
Figure 44, Fermionic propeller shaped Quantum Knots and Higgs boson based Quantum knot black hole nuclei.

Figure 55, Splitting Big Bang Black Hole inflation and vacuum (ether) evaporation.
The New Dual Magnetic String Physics of the Anti-Maxwell Magnetic dip around a wire, for reaction less space propulsion.

According to Quantum FFF theory, all magnetic fields can be presented as DUAL Magnetic Monopole Plasma Water Arrays. These monopole arrays enhance curvature. As a result, the magnetic field intensity around the Earth and a wire is NOT dropping off with the square of the distance from the source. The field becomes stronger polarized away from the source (the source). Close to the current transporting wire, the magnetic field strength is zero due to the parallel trajectories of North or South Polars before curving and magnification of iron powder. (Author: LeoVuyk)

Three circular Anti-Maxwell propulsion systems in triangular configuration, should be enough to create stable piloting and flight (LeoVuyk).

New physics of Rigid String Theory called "Quantum FFF Theory", as a base for new understanding of Anti-Maxwell magnetic field distribution around a wire. And reaction less propulsion.

Figure 66, Dual monopole magnetic string physics of Anti Maxwell magnetic dip around a wire, for reaction-less space propulsion.

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

New physics of Rigid String Theory called "Quantum FFF Theory", as a base for new understanding of Anti-Maxwell magnetic field distribution around a wire. And reaction less propulsion.

Figure 77, Pair production by the Axion Higgs field particle collision around black hole horizons.
Figure 88, The massless Axion Higgs oscillations as origin of the Dark Energy vacuum Ether Field.
Lorentz Fitzgerald Contraction is real!

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

Polarized Fermions (Nuclear Quarks) as the origin of non-accelerated motion through the resistive oscillating vacuum Higgs field.

Polarized Fermion mass in motion through the resistive, but also pulsing oscillating Higgs field (according to Quantum FFF theory).

Nucleon polarisation based on Fermion (Quark) propeller polarisation.

Direction of absolute Fermion (Quark) motion in the Higgs field reference frame, variable by gravity also called spacetime.


Pear shaped atomic nuclei is reason to assume John Bell was right! With Lorentz contraction in special relativity.

Figure 19, Lorentz Fitzgerald Contraction is real.

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.

The Earth, or (Neutron) Star.

Cross section through the dual string gravity on a point mass at the earth surface or (Neutron) star. (1) located on earth’s surface (3), according to Quantum FFF theory; 5, 6—Higgs vector field. 6—Graviton vector field originated by the Higgs-graviton field transformation of the earth itself. 7, 8—distances with a perfect globular vector distribution. Field variables 3, 5, 6 are rendered as inversely arrows. (see also black hole pressure distribution without gravitons)

Figure 20, Dual Rigid String Pressure Gravity.
Sterile Neutrinos and Majoranas seem to have different origins according to the 3x hinged rigid string system of Quantum Function Follows Form model.

Figure 21. The extended Standard Model of Quantum FFF Theory.
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