

# **FUNKTION FOLLOWS FORM, at the Quantum scale and beyond.**

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## **Abstract,**

FUNCTION FOLLOWS FORM in Quantum FFF THEORY.

The FORM and MICROSTRUCTURE of elementary particles, is supposed to be the origin of FUNCTIONAL differences between Higgs- Graviton- Photon- and Fermion particles. As a consequence, a NEW splitting and pairing MASSLESS BLACK HOLE, able to convert vacuum energy into real energy by entropy decrease, seems to be able to explain the cyclic Big Bang, quick Galaxy- and Star formation, down to Sunspots, Comets, Ball Lightning and even Ice Volcanoes on Titan.

Five posters are presented in this paper, as a quick overview of the former letters submitted to viXra.

## **Introduction.**

Quantum FFF theory states, that the vacuum is seeded with fast oscillating massless Higgs particles, oscillating along a complex chiral tetrahedral vacuum lattice, which has the ability to transfer Photon and Graviton FORM information in bunches of oscillations, through the vacuum lattice with the local speed of light. Ref [4]. As a consequence there are no attraction forces on propeller shaped Fermions. Only the statistical sum of the different kinds of vacuum impulses from all directions on Fermions are responsible for all energetic phenomena in the universe. Ref.[1]

**Poster 1: SIX Q-FFF theory related experiments:**

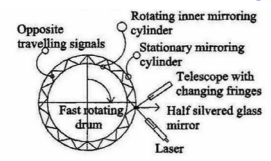
- 1: Lightspeed drag and extinction experiment inside a double mirrored fast rotating cylinder. Ref [7]
- 2: CHAMP-GPS satellite outlier measurement focussed on GPS elevation angle to the earth. Ref [7]
- 3: Double LeSage gravity experiment with new massive oscillator. Ref [1]
- 4: Double Stern-Gerlach atomic entanglement experiment. Ref [2]
- 5: Gravity drag related Lightspeed experiment between two Balloons and the earth. Ref [7]
- 6: Multiverse number count by a renewed Benjamin Libet experiment focussed on RPI and RPII ratio. Ref [2]

With the introduction of these experiments, I try to give a small push to restore the relation between CAUSE AND EFFECT in Physics.

For 100 years now, both mainstream theories have offered us irrational solutions in Physics, based on statistics of Quantum phenomena and the ideas that the light speed, time and mass, are able to do magical things at all scales without the need for a logical base.

**Poster 1. six experiments.**

**LIGHTSPEED Extinction exp.**



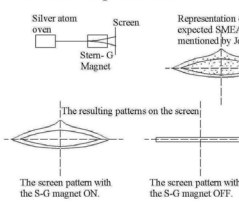
The Babcock and Bergman test done in 1964, resulted in a positive lightspeed drag factor of only 0,7%, which could be translated in a drag extinction effect over less than 1 cm distance after signal passage through the fast moving glass window. See: Journal of the Optical Society of America Vol. 54, nr 2 page 147-151 Febr. 1964. Determination of the Constancy of the speed of Light by Babcock and Bergman.

If the Quantum Mechanical Vacuum structure is influenced over maximal 1 cm. by matter, as the Experiment done by Babcock and Bergman seems to indicate, then a fast moving mirror cylinder inside a stationary cylinder should influence the interference pattern produced inside the telescope much more, than the Babcock and Bergman's experiment did. We should get better results, if the distance between the inner and outer mirror cylinder is minimized and the number of lightpath reflections is maximized.

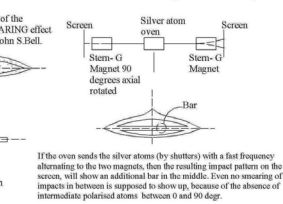
**Support for Atomic ENTANGLEMENT in single and DOUBLE Stern Gerlach experiments**

New Stern Gerlach experiment, based on the hypothesis, that the non-smearing paradox described by J.S.Bell, in his book "speakeable and unspeakable in QM" Ch. 16, (page 140-141) is originated by a new unknown form of entanglement at a distance between the first silver atom inside the S-G magnet and the rest, waiting in the silver oven to be released. It is assumed, that the vaporized silveratoms inside and outside the silver oven, are always entangled two by two, to guarantee a total zero-spin state, and the absence of a "SMEARING" effect. author: Leo Vuyk, 23-10-2005

**The traditional Stern Gerlach experiment.**



**The new proposed experiment, with two S-G magnets always ON**



If the oven sends the silver atoms (by shutters) with a fast frequency alternating to the two magnets, then the resulting impacted pattern on the screen, will show an additional bar in the middle. Even no smearing of impacts in between is supposed to show up, because of the absence of intermediate polarized atoms between 0 and 90 deg.

Author: Leo Vuyk 30-01-2011 NL

**Some FFF Theory related Experiments  
Function Follows Form in QM and Cosmo**

Repeating investigation of the CHAMP/GPS satellite anomalous outliers of 180 meter, in relation to the gravity-drag LASOF Ellipsoidal EXTINCTION influence on the lightspeed.

A clear example of GPS failure for sat-sat signals at higher altitudes ( CHAMP: 430 km, GPS: 20.000km) Kinematic orbit solution comparison showing GPS data outliers up to 180 meters, (2x) during a CHAMP flight long 24 hours with 15 earth revolutions in 2003.

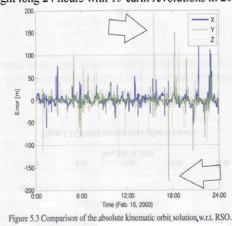
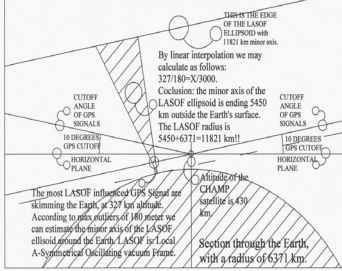
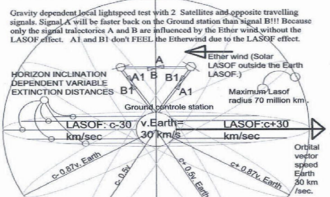


Figure 5.3 Comparison of the absolute kinematic orbit solution, w.r.t. RSO.



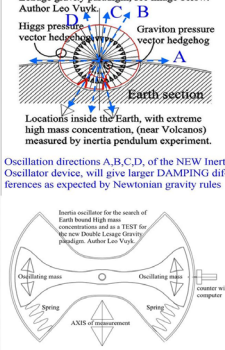
**Opposite running LASER signal interference exp. in triangular shape between two Balloons or Satellites and the Earth.**

GRAVITY DIRECTION DEPENDENT LIGHT SPEED FRAME DRAGGING by LASOF (Local Anti-Symmetrical Oscillating vacuum Frame). SIGAR shaped LASOF Bubble structure of the Earth with proposals for a future two way TRIANGLE satellite signal interference experiment. date: 9-11-2006 ( this is an enlargement of figure B1 dated: 14-01-2005) author : Leo Vuyk.



**DOUBLE LeSage Gravity**

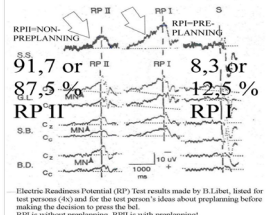
Higgs/Graviton pressure vector hedgehogs acting on a mass carrying Quantum particle. The irregular distribution of mass inside the earth is supposed to influence the 3D pressure vector hedgehog according to the new Double LeSage gravity paradigm, see image below. Author: Leo Vuyk



**MULTIVERSE exp. New B.Libet experiments focussed on RPI -RPII statistics.**

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 preplans his choice. The other 7 or 11 test copy-persons are only able to follow OR REFLECT 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 RPII percentage will be 100/12=8,3%. For 8 universes RPI I will be 12,5%. For RPI II it will be 91,7 respectively 87,5%.



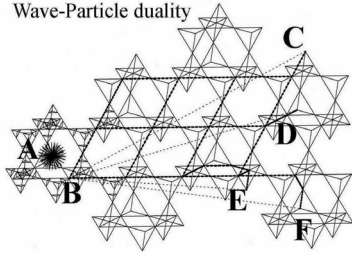
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# Poster 2. What is wrong with Physics at the Quantum scale.

At the Quantum Level, I postulate a new 3D String, an alternative symmetric GUT-based extension of the Standard Model.

## What is wrong with Physics

### Wave-Particle duality



### Photon trajectories through the tetrahedral Chiral vacuum lattice.

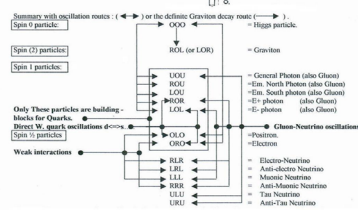
A photon is created as a deformed Higgs particle at position (A), thus as a single (Photon/Gluon) particle which after some distance changes form back into a Higgs particle (B).

The photon energy is transferred into the oscillating Higgs system and travelling through the vacuum lattice in the form of a pulsating BUNCH of entangled energetic Higgs oscillations with the local speed of light. The distance between two cycles of the Bunch resembles the wavelength of the photon pulsating bunch.

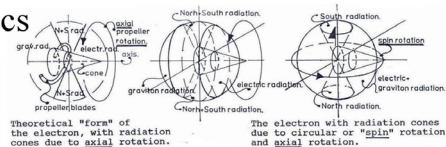
(The bunch idea matches with the single photon double slit experiment) After collision with a second Fermion, at locations C,D,E,F, the BUNCH of energy collapses and change the FORM of a local Higgs particle into the shape of the original Photon.

Five different shaped Gluons after some distance are called Photons. Thus five different shaped Photons start their journey as Higgs. Author: Leo Vuyk.

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



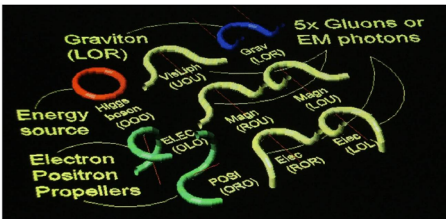
Author: Leo Vuyk 30-01-2011 NL



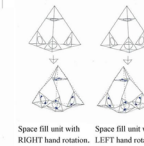
Theoretical "form" of the electron, with radiation cones due to axial rotation.

The electron with radiation cones due to circular or "spin" rotation and axial rotation.

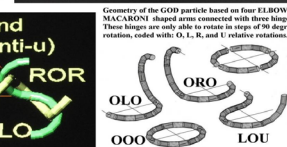
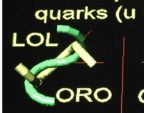
The "Eigen energy" distribution around the spinning Fermion propeller, is supposed to come in cone form. The Fermion spin and radiation is the product of a scattering process with oscillating Higgs vacuum particles. As a result, the Fermion has a double spin around two polar axes. This is supposed to be the origin of a dipole Magnetic field with North and South monopole photon radiation and the circular distribution of graviton and electric radiation. In addition it must be stated that all Fermions are entangled with their object/subject particle far away.



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. LEFT hand rotation.



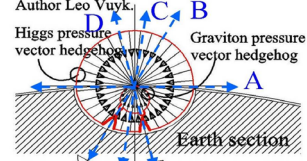
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## At the Quantum level



### Double LeSage Quantum Gravity.

Higgs/Graviton pressure vector hedgehogs acting on a mass carrying Quantum particle. The irregular distribution of mass inside the earth is supposed to influence the 3D pressure vector hedgehog according to the new Double LeSage gravity paradigm, see image below.

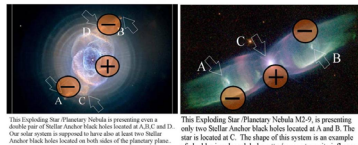


Locations inside the Earth, with extreme high mass concentration, (near Volcanos) measured by inertia pendulum experiment.

Oscillation directions A,B,C,D, of the NEW Inertia Oscillator device, will give larger DAMPING differences as expected by Newtonian gravity rules

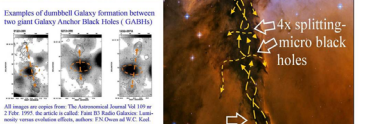
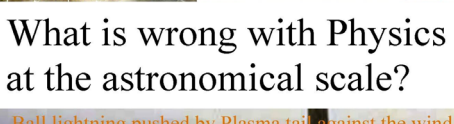
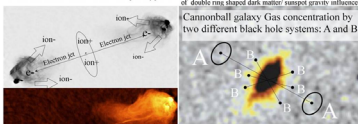
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# Poster 3. What is wrong with Physics at the astronomical scale



Two accelerating, pairing and reeding micro black holes in the Carina nebula with temporary meeting place A.

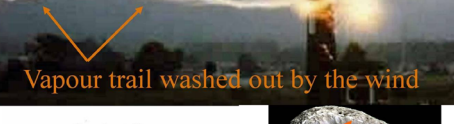
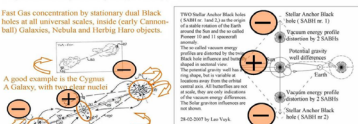
Two accelerating, pairing and reeding micro black holes in the Carina nebula with temporary meeting place A, and ionised H2 gas trail.



Cannonball galaxy concentration by two different black hole systems: A and B.

Ball lightning pushed by Plasma tail against the wind.

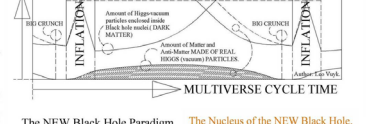
Examples of dumbbell Galaxy formation between two gas Galaxy Anchor Black Holes (GABHs).



BH System A' left over from the Big Bang inflation splitting epoch.

Vapour trail washed out by the wind.

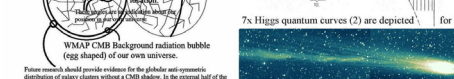
2 pairing micro black holes.



The origin of Elliptical Galaxies and complex external Dark Matter lobes, by merging of "early" spiral galaxies, each equipped with two Galaxy anchor black holes (GABHs) located on each side of the equatorial plane of the spiral.

The raspberry multiverse.

The NEW Black Hole Paradigm.



Typical form example of pairing black holes leaving gas trails and a BAK behind and star formation on different sides.

Hypion's globular inner nucleus is a firm indicator of entropy decrease at the boundary between Higgs repulsion and attraction zones (4) around NEW (micro) black holes.

The Nucleus of the NEW Black Hole.

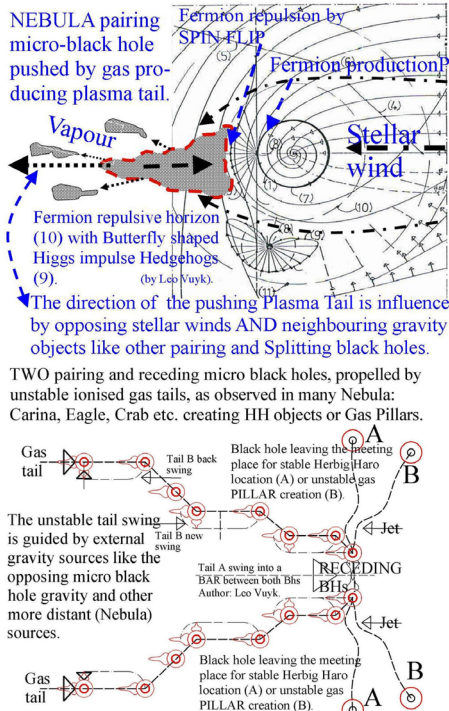
Author: Leo Vuyk 4-02-2011 NL

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**Poster 4, Can we observe the consequences of the NEW Black hole in the universe?**

**The Dynamics of accelerating MICRO Black holes inside Nebula and on Earth**

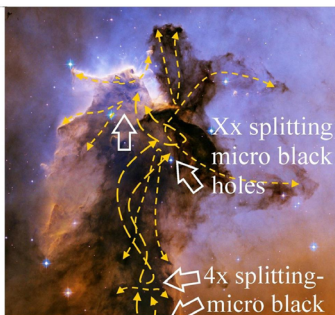
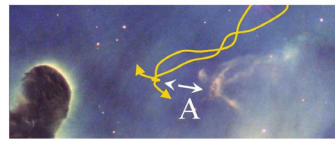


Author: Leo Vuyk 11-02-2011 NL.

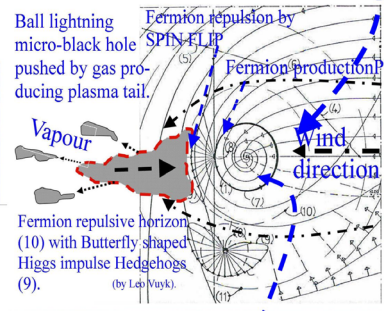
**EXAMPLES OF ACCELERATED BINARY BLACK HOLES IN THE CARINA NEBULA.**



Two accelerating, pairing and receding micro black holes in the Carina nebula with temporary meeting place A. and ionised H2 gas trail.



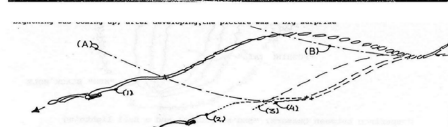
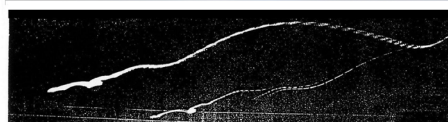
How is the vacuum able to release energy to overcome the opposing wind? By SPIN-FLIP and the Plasma tail is always swept at the back of the BL by the wind itself!



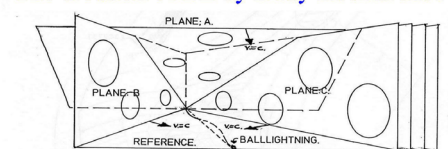
<http://bigbang-entanglement.blogspot.com/>

**Poster 5, The secret of Ball Lightning as a micro black hole.**

**THE SECRET OF BALL LIGHTNING. Its production by e.m.- x-ray interference into a KNOTTY Nucleus, able to accelerate, decrease Entropy and produce Vapour.**

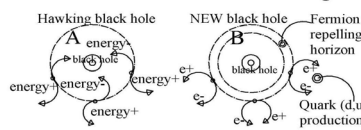


The creation of BL by x-ray interference



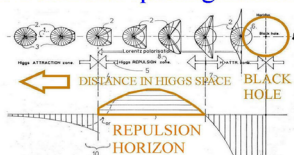
Author: Leo Vuyk 10-02-2011 NL.

**The NEW Black Hole Paradigm**



The standard Hawking Radiation postulate is: that all matter (NOT all energy) is drawn into the Black hole. My NEW postulate is that matter is even created (and pushed outside) at the Black hole horizon by QUANTUM FLUCTUATIONS producing Electrons and Positrons. The reason for this NEW Fermion production effect is, that it is a consequence of the concentration of head-on Higgs particle collisions just at the horizon. Some Electrons and Positrons will annihilate, but the rest will form Quarks and plasma, because the Higgs vacuum lattice is CHIRAL and prefer to link Gluons to Positrons and form U- Quarks in favour of Electrons and Gluons, which form D-Quarks. Thus more Electrons will stay single and form Hydrogen atom shells. However they have less mass than Quarks and feel less attraction to the Black hole nucleus, thus Electrons form also an external shell around the Black hole inner shell of Protons and some Neutrons! Due to the propeller shape of the particles all the plasma is repelled away from the black hole! The Black hole will not evaporate! This is the base for NEW Physics and a support for a new explanation of Cometary X-rays, Hydrogen and AMINO ACID production. Even Gas Pillar and Herbig Haro formations inside Nebula become a logic base. Author Leo Vuyk.

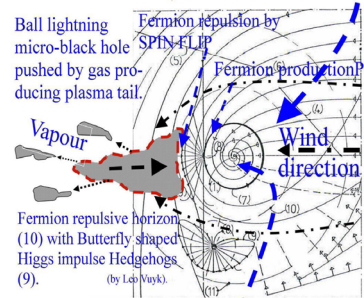
**The Fermion repelling horizon**



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 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)



How is the vacuum able to release energy to overcome the opposing wind? By SPIN-FLIP and the Plasma tail is always swept at the back of the BL by the wind itself!



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The accelerating plasma tail of NEW paradigm black holes, and the splitting black holes by smaller pairing black holes, (Eagle Nebula, poster (4)) seems to be the origin of a smooth proliferation of black holes through Galaxies and Nebula.

However, this splitting and pairing process is also assumed to be the origin of the “bushy” so called Lyman Alpha structure of matter distribution in the universe with the Big Bang black hole as the founding father.(Poster (3): the raspberry multiverse, and CPT symmetrical Multiverse cycle).

In addition, FFF theory assumes, that the Dark matter (= Black Hole) distribution around Galaxies -specially Galaxy clusters- represents the smooth distribution of black holes, with the largest black holes located at the outside of Galaxies called Galaxy Anchor Black Holes (GABHs).

“Less Is More” and “Form Follows Function”.

The Aphorisms: “Less Is More” and “Form Follows Function”, of Modern Architecture, introduced by Mies van der Rohe respectively Louis Sullivan, seem to be REVERSIBLE in Nature.

Why, because at the Planck scale, the SHAPE of particles and the way particles are connected to each other and form compound quarks, seem to be the origin of the particle FUNCTION.

As a result we may say: FUNCTION FOLLOWS FORM in particle physics.

At the Universal scale however, CPT ( Charge, Parity and Time) SYMMETRY between entangled copy Universes, forming a Multiverse with Raspberry geometry, seems the most logical solution for a theory of everything.

Is Less More in the Symmetric Multiverse?

No, as a result we may say: MORE IS BETTER in Astronomy and Consciousness. ( to solve the "Symmetry"- and “Schrödinger's Cat” problem). Ref [2].

As a consequences, we should not be afraid for Ockham’s razor who ordered to keep it simple as possible at the Planck- or Universal scale.

In fact this Quantum FFF theory follows Ockham’s razor by keeping the choice system in nature simple. If we have a system of entangled symmetric copy universes, then I expect that by a sort of entanglement floatation by chance, one of the copy observers is the first to suggest a specific choice (and become the subject) about 300 msec later (B.Libet Ref. [2]), the other observers in different (anti-) copy-universes are able to pass or veto the choice.

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## References:

[1] [viXra:1103.0024](#) submitted on 9 Mar 2011

**Quantum Gravity and Electro Magnetic Forces in FFF-Theory.**

Authors: Leo Vuyk.

Category: [Quantum Gravity and String Theory](#)

[2] [viXra:1103.0015](#) submitted on 5 Mar 2011

**Wavefunction Collapse and Human Choice-Making Inside an Entangled Mirror Symmetrical Multiverse.**

Authors: Leo Vuyk.

Category: [High Energy Particle Physics](#)

[3] [viXra:1103.0011](#) submitted on 3 Mar 2011

**An Alternative Black Hole, Provided with Entropy Decrease and Plasma Creation.**

Authors: Leo Vuyk

Category: [High Energy Particle Physics](#)

[4] [viXra:1103.0002](#) submitted on 1 Mar 2011

**3-Dimensional String Based Alternative Particle Model.**

Authors: Leo Vuyk.

Category: [High Energy Particle Physics](#)

[5] [viXra:1102.0052](#) 27 Feb 2011

**Construction Principles for Chiral "atoms of Spacetime Geometry".**

Authors: Leo Vuyk

Category: [Quantum Physics](#)

[6] [viXra:1102.0054](#) 27 Feb 2011

**Atomic Nuclear Geometry Based on Magic Number Logic.**

Authors: Leo Vuyk.

Category: [Nuclear and Atomic Physics](#)

[7] [viXra:1102.0056](#) 28 Feb 2011

**Experiments to Determine the Mass Related Lightspeed Extinction Volume Around the Earth and Around Spinning Objects in the Lab.**

Authors: Leo Vuyk.

Category: [Relativity and Cosmology](#)

**[8] The New God Particle and Free Will.**

Author: Leo Vuyk, LuLu publishers, 2008.

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