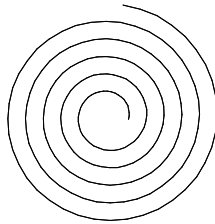
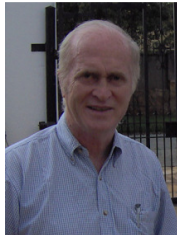


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EX SPIRA AQUA MUNDA



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The Ether/ESF and the E-Cat of Rossi-Focardi

My article is supporting the existence of *substance in the space not occupied by physical mass*, whereas, presently, most of men and women of Science, say that where there is no mass, there is nothing but vacuum, (and even give to it *mathematical/geometrical attributes*).

A man of Science hinting to the existence Ether/ESF will face automatic disqualification if he only attempts to deal with a subject officially declared "pathetic Science".

What other argument is needed to prove that the Science of Physics has nowadays become a religion whose high priests are made up by an elite of people "claiming" high levels of scientific knowledge whilst supporting a dogmatic approach to Science.

Since my firm belief has always been that what does not appear evident to our senses can be found through the exercise of the faculties of our intellects I here want to add a few notions.

I must accept the historical fact that to find evidence of Ether/ESF (Energized Space Fabric), as substance, defied up to now, our senses and the capacity of imagination of our minds, nevertheless I have only a question for those affirming that Space is empty: "is absolute emptiness endowed of existence? Can absolute emptiness appear to our senses as a physical space endowed of three dimensions?"

My answer is no, since an absolute in that sense can only be a category of the mind (an idea).

Our incapacity to see and measure the presence of the Ether/ESF inside a space endowed of physical dimensions depends from the manner in which the problem was faced up to now and I want to show how the solution of this physical problem could only be reached through "reverse engineering".

We look at the physical world and we observe and measure and we see that without possibility of doubt the phenomena related to the Universal reality are tied up by a sequence of cause and effect.

Since our present knowledge is based on research, we routinely investigate "reactions" (which is tantamount to say transformations-degradations) in respect of conservation, and now if we follow rigorously this path of research, the way is open to investigate backward, (using known values associated to the physical phenomena observed) until a solid prospective takes shape and we have to accept that since from a physical phenomenon to another following it in succession we have at the same time transformation and degradation, if we proceed backward, we must by necessity arrive to the source of these transformations-degradations and this source can only contain pure substance on a pristine status, (something, which I called the Ether/ESF, that if it is not physically tingled and therefore subjected to transformation-degradation can exists forever, unchanged, in its suspended status) from this point on, the field is open for advances in the physical Science but for a start it is advisable to concentrate our efforts on the most common phenomena of movement.

Note; it must be clear that basic substance is existing in space as "mass-energy" when in compressed status belongs to a physical mass as part of it, whereas if the same basic substance is in a condition of existence that can be described through pure movement in space (inside the unencumbered Ether/ESF which absorbs it) at

the maximum speed c , is in a status of existence that can be defined "energized".

We must also add that the "energized" substance does exist in nature in the form of an intermediate status (kinetic energy) when tied up to a physical mass enables it to move in space.

We express the character saying that the physical mass in movement is endowed of "energy" since although the kinetic energy is tied up to the physical mass still is subjected to absorption by the Ether/ESF.

To understand things better, then, comes to our help the principle of equivalence which says that if the character which can produce movement (the spin), belonging to the energy, is fully compressed, the energy changes status of existence becoming mass-energy and this is fully supported by observation (and is formulated as "Law of Equivalence").

A further comment I must add, regarding the volume occupied by a physical mass inside the Euclidean space, since a physical mass (substance) can occupy space in conditions of quiet (absolute or relative) but when the physical mass is deemed to be in movement we must consider that it runs a volume during the unit of time and that volume becomes an essential datum in establishing how the energetic status is present in it (how much kinetic energy belongs to the physical mass).

-) I have redefined the Ether/ESF and due to its characters I called it Energized Space Fabric (ESF), inside it a gravitational mass is moving surrounded by its own gravitational field also made up of Ether/ESF, solidly connected with it, (this phenomenon has already been observed and to it was given the name "Hill Sphere", see Wikipedia).

The Ether/ESF surrounding a gravitational mass and that contained within the same between its atoms (has the characters of a field determined by such a mass through gravitation which is a phenomenon of continuous absorption of Ether/ESF and transformation of it into neutronic mass-energy).

This field is solidly connected with the central mass in movement and its boundary (the Hill sphere) is moving frictionless in orbit inside the surrounding environment also made up of Ether/ESF usually belonging to a field generated by a larger gravitational entity.

Given its nature consisting of pure pristine energy, in a compressed status, the field of Ether/ESF belonging to a mass and moving solidly with it (at $v \ll c$) in orbit around the central gravitational mass (is displacing effortlessly the field of the central gravitational larger mass).

The Ether/ESF is constituted by indefinable particles deprived of movement on their own (a fact that permits us to say that *locally*, inside the gravitational field of a mass the temperature of Ether/ESF external to the mass, moving with it, is zero).

Let us take Earth as example, we, then, have that those indefinable particles are moving solidly with the gravitational field of our Earth and since they are pure compressed energy they do not reveal to us any physical sign of existence and this *gives us the impression* that the space immediately surrounding us is empty.

This then is reinforced by the fact that since a particle does not have relative movement and does not have vibration, when we try to measure temperature of the Ether/ESF we have zero value.

The possibility that we have to measure a zero value of the temperature of the substance surrounding us is proof of existence of substance, other-ways how could we measure a character of something that doesn't exist?

Ether/ESF is pure compressed energy filling the Universe in the above conditions of immobility and a mass of any size (surrounded by its own gravitational field of Ether/ESF) moving inside it at *constant speed* doesn't produce friction, since "friction" is a phenomenon due to relative movement between masses in contact.

What said above permits to explain why the Michaelson-Morley experiment, in virtue of the fact that a gravitational field of Ether/ESF (in space technology referred to as "Hill sphere") surrounds and permeates the Earth whilst moving solidly with it inside the gravitational field of Ether/ESF surrounding the Sun, gave null results, in opposition to the expectations that due to Ether/ESF flow investing the Earth, values of velocity of light propagated in all directions had to be influenced.

-) The Ether/ESF is pristine substance at the base of the Universal reality, it does occupies the infinite space giving to it its Euclidean character, and assumed that it can exist in a status of absolute quiet (*assumed completely exempt from gravitational interference*) we can say that it does exist outside the time phenomenon (since being conservable and indestructible is also immobile, it can be said that in the condition above mentioned it would exist in a status of temporal invariability).

-) The Ether/ESF, in the theory that I developed, is substance made of indefinable particles existing in a original compressed status similar to mass-energy, having its own characters and the potential capacity

to undergo *transformations-degradations each producing a change of status of existence*.

The first of these transformations-degradations is originated by its absorption by the physical mass as gravitational mass along a natural open cycle determining the reality of the natural world through causal concatenation of events until coming out, as dissipation, from the physical mass, in a decompressed status, purely energized, is absorbed by the field of Ether/ESF external to it as dissipation.

-) The presence of the natural world is exclusively due to phenomena originated by the Ether which as basic substance is endowed of the property of being absorbed by the gravitational component of a mass transforming itself into gravitational mass-energy and thereon is undergoing different consecutive transformations-degradations into a series of states of existence, when as part of the mass reacts with the gravitational field of a larger gravitational mass or is subjected to other natural events.

My theory, based on the existence of the Ether/ESF joins together *Newton's Universal Law of Gravitation (ULG) and Einstein's Law of equivalence* and definitely overcomes the impasse at which the Science of movement, generated by Force, presently is.

Regarding the E-Cat I am proceeding very slowly since at the moment whatever pronouncement I will attempt will just be a conjecture, in dire need of practical confirmation, nevertheless I am sure that the explanations dished at present (Cold Fusion, LENR, etc...) are totally out of the track, and definitely a consistent period of time and further observations will be needed.

Observations are needed whilst reproducing the E-Cat device or generating phenomena of nature similar to the E-Cat involving other atomic entities.

I wish Dr. Rossi (due to his initial advantage) will be able in time to solve part of the physical conundrum, but presently is my firm belief that the results that he achieved whilst being real and based on his capacity to work hard are the result of empirical research during which he used his exceptional intuitive capacity.

Without consideration and acceptance of the presence of the Ether/ESF there is no possibility to achieve sound justifications in the field of Physics, therefore the concepts prevailing at the moment will be always unsatisfying and any attempt to use them inside the atoms is destined to fail. With this I do not say that I know it all, nevertheless I am sure to be in the right path since through *a theory*

based on the assumption of existence of the Ether/ESF which unifies the Universal Law of Gravity of Newton and the Law of equivalence of Einstein into an unique Law of transformation of substance along a cycle of degradation, I managed to achieve few very good results of which I am sure.

I tried here to present few of the basic concepts of a gravitational theory based on existence of Ether/ESF in the Universal reality, which presently in the Science world is generally and pathologically denied.

All the results achieved through the theory based on the assumption of existence of Ether/ESF are described through the formulations belonging to the “**Universal Dynamic Science**” (UDS).

Developing it, I found a purpose and results, a few of which I mention below:

- 1) A reliable **justification of the nature of the Forces of gravitational origin** and of the natural processes tied up to the open cycle of **gravitational transformation-degradation generating dynamisms**.
- 2) **The value of precession** through a formula that successfully challenges the existing one (based on unconvincing arguments) and successfully explains other phenomena of physical nature.
- 3) **The flow of energy coming out of the Sun** (and generally from a gravitational mass of large dimensions) **as dissipation**.
- 4) A reliable explanation “cum formulation” calculating **the mass of the stars trough observation of physical characters** and the use of the constant of Boltzmann (search [Ruggeri40](#) in the Science Journals).
- 5) A value justifying **the volcanic activity of IO “the moon of Jupiter”**(search [Ruggeri41](#)) caused by the gravitational presence of Jupiter and other interesting conclusions,,,
- 6) A promising description (for the time being) of how the E-cat works, since any possible theory needs to take into consideration the model of the atom offered by the UDS, in which the surface of the atom is made up of an extremely thin and resistant layer of compressed Ether/ESF.
- 7) **A claim on the justification of the superluminal velocity of the neutrino**, based on the phenomenon of precession and other assumptions...etc...etc.....

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