

23 December 2008

Characters of the Ether/ESF and justification of its extreme behavior

No one bothered to stop and think that since the velocity of the light inside a system in movement is the same in all directions, the intrinsic character generating the speed c could belong to the medium external to the light emitting physical object, the Ether/ESF, whilst entrapped in the moving system in such a way that the physical universal Laws result unvaried inside it, so that measurements made by an observer resident in the said system, reflect locally the universal values in conditions of quiet, (local absolute condition of a system containing the inertial mass-energy to which corresponds presence of velocity and entrapping of the surrounding Ether/ESF, which moves with the system).

In these conditions then is acceptable that an observer internal to a system whose movement, is justified by presence of a field of inertial m-e entrapping the ESF must be regarded inside a system having the shape of a bubble, where he and his time measuring device are in physical conditions of virtual quiet adjusted to give him a speed of the light constant and equal to c in all directions.

Note: the m-e M_{Heat} , of gravitational origin, is result of transformation happening inside the atomic structures and in minor extent M_{Heat} is also generated by transformations affecting the molecular bonds between atoms.

M_{Heat} comes out of the atoms and of the molecules but is still contained inside the physical mass, it is free but compressed between the interstices existing outside the external surfaces of the

atoms and the molecules (in these conditions, its spin is almost completely compressed but finds a way of lesser resistance towards the external surface of the physical mass). M_{Heat} coming out of a source in the conditions above, once in contact with the ESF reduces c times its density of presence and moves absorbed at c speed in the ESF.

Note: the validity of the phenomenon is general inside systems in movement provided the observation is made by an observer which is part of the system.

Note: we have an hydraulic phenomenon analogically comparable to the above when in gravitational conditions mass-energy M_{RM} belonging to a physical mass, is transformed into inertial mass moving the liquid to which belongs, as presented by Daniel Bernoulli.

The ESF is substance (whose existence is not accepted by many), and can be described as m-e that when subjected to extremes can show extreme behavior, as thin surface constituting the outer shell of the atom and of the electron, as orbital pathway run under the effect of the gravity, as agent reacting with the neutron mass-energy of the atomic nuclei belonging to the physical mass, when under gravitational absorption is present in depressed status associated to its own flow, which over a physical object in quiet generates the Static Force, etc....

This, just to name some of the phenomena mainly associated to gravity since the Ether/ESF is also extreme physical presence in electrostatics, electrodynamics, magnetism and electromagnetism and dramatically contributes to the explanation of phenomena up to now belonging to chemistry, to the elasticity of the materials and to crystallography.

In short, the understanding of the characters of the Ether/ESF is the new paradigm in physics which will permit great advances.

The capacity to agglomerate, possessed by the ESF, is permitting it to acquire extreme density which results on the physical presence of mass-energy as neutrons as m-e M_{ESCM} (gluing together the neutrons) and in the formation of the thin surface of the atom as m-e opposing the action of the mass-energy present as electrons.

Though the surface of the atom cannot be cut using another atom as knife, it can be penetrated by the mass-energy present in different states of existence (by “fast” and “slow” neutrons and by numberless

other particles including the SP in dissipation...), the atomic surface can also be disturbed by compression of gravitational character inside the physical masses M_{LGM} , facilitating the outpouring of M_{Heat} generated inside the atoms by transformation (also of gravitational nature).

Note: this theory suggests that gravitational unstoppable transformations-degradations taking place inside the atoms and causing the unbundling of mass-energy M_{RM} into M_{ESCM} , when the atoms are subjected to enormous compressions are directly followed by transformation of M_{ESCM} into M_{Heat} which is m-e directly released by the atoms, trapped under compression outside their surfaces but still residing inside the gravitational physical mass from which slowly comes out.

We must also add that in normal conditions, the atomic surfaces of an object in movement (containing inertial mass M_{ESCE} and therefore spin uni-directionally absorbed by the ESF) can be disturbed through dynamic contact (to surfaces of other masses) that transforms-degrades the m-e in the status of M_{ESCE} possessed by them into M_{Heat} and instantly releases it as dissipation.

The phenomena affecting the atoms at surface level and inside their nuclei are subjected to “comparison by analogy” and though a majority of phenomena cannot be observed directly at fundamental level we can in many cases make an “analogical comparison” which helps to increase our understanding of their presence in the physical world.

Example:

a) a bubble of soap compressing air or a gas inside the volume occupied can be analogically compared with the physical reality of the electrons which are made up of m-e equivalent to a Total Force resulting unable to penetrate the ESF, it is then suggested that the m-e constituting the electron is equivalent to a Total Force which excludes the ESF from a fixed volume, coming to exist and delimited by a shell made up of fabric of m-e ESF, equivalent in value to the effect outside directed by the Total Force and opposing it .

b) the necessity to couple the rotation of the blades of the rotor on the helicopter, with the stabilizing effect of the device on its tail, acting along a line offset and vertical to the axe of the movement caused by

the rotor, can represent, in macroscopic terms, the instability of spin character in absorption by the ESF, and the fact that a moving blade cannot penetrate vertically the air unless there is a stabilizing device, we then can analogically compare the lack of penetration of the air medium by a single rotating ensemble to the lack of penetration of the ESF by the mass-energy constituting an electron whose spin is uniformly orientated .

In the other hand if we have an helicopter in possession of two rotors, turning in opposite directions vertical penetration of the air is insured.

This permits us to affirm that the dynamism of a particle of mass-energy M_{Heat} can be compared to that of a device endowed of twin rotors spinning in opposite directions which enable it to have interaction with the ESF.

We now represent the spin possessed by the m-e ΔM_{Heat} in the following conditions, reflecting the possibility to have a dual half spin character that can respect the following expression:

$$\Delta M_{\text{Heat}} \rightarrow \mathbf{S} = \frac{1 \leftarrow}{2} \mathbf{s} + \frac{1 \rightarrow}{2} \mathbf{s}$$

is possible now to conclude that whereas the spin is an indestructible conservable constituent of the m-e of which the electron is also made, in the electron the same amount of spin for the same amount of m-e $\Delta M_{\text{electron}} = \Delta M_{\text{Heat}}$ is possessed in the following terms:

$$\Delta M_{\text{electron}} \rightarrow \mathbf{S} = \frac{1 \rightarrow}{2} \mathbf{s} + \frac{1 \rightarrow}{2} \mathbf{s}$$

In these last conditions the spin of the electron cannot entirely interact with the ESF but the Total Force of which it is endowed enables it to exclude the ESF from its point of existence until equilibrium between the effect outside directed by its value of mass-energy and the reaction of the ESF is achieved.

The m-e ESF then opposes the effect of the Total Force of the m-e constituting the electron, surrounding it with a thin shell, a status of existence of mass-energy which shows its presence as a fabric like surface when opposing the electron which by its nature cannot penetrate it, and the phenomenon has its analogous counterpart in the surface of a bubble of soap establishing with the compression of the gas inside it a status of equilibrium of opposite Forces.

If then when the electron is formed we take into account that is m-e poured out of the neutron, we have to accept the fact that the bubble which the electron produces whilst excluding the ESF is including the presence of a nucleus made of m-e on neutronic conditions, (these are the assumptions, under which the atoms as entities are coming into existence).

c) analogies between the formulations assuming the invariability of the atom and those assuming the invariability of the substance, must be interpreted through the concept that invariability of substance is the bottom line and formulations developed for the invariability of the atoms when applied (*mutatis mutandis*) to the basic particles and to clusters of them (like the neutrons, the protons and the electrons) generally result more valid for the basic particles and for their clusters, than for the atomic entities.

The difficulty of representation still remains, since the basic particles are indefinable (but being made of substance cannot be restricted to a mathematical point) and when we use mathematical representation we are forced to represent them as discrete amounts ΔM of m-e inside formulations related to calculus analysis which providing a limit $\Delta M \rightarrow 0$ provides also for the representation of a size of the basic particles as small as we want it to be, but definitely not zero.

d) some of the internal transformations-degradations afflicting the mass-energy constituting the physical mass but taking place inside the atomic entities, have correspondence with analogical transformations-degradations afflicting the external surfaces of the atoms (clustered together as molecule and large molecular clusters) and when this happens we can develop analogous physical laws of universal nature).

In the transformations-degradations (generated by gravitation) happening inside the atoms we had continuous variations of the status of existence of mass-energy leading to gradual passage from an atomic element to another, (these phenomena based on interactions between the subatomic elements of a physical mass and the ESF, can require eons to take place and are difficult to pinpoint, since we only are faced by their final results which are the atoms and the molecule constituting the physical mass).

To further our case, we have to say that in the physical mass the ever present absorption of ESF by the gravitational component,

increases the amounts of neutron m-e (increases the number of neutrons) and is also responsible for the unstoppable phenomenon increasing the neutronic M_{ESCM} binding the neutrons in the nuclei.

This phenomenon has a natural limit which has been observed as a matter of fact, since excessive presence of m-e M_{ESCM} can naturally produce a split of heavy nuclei leading to formation of lighter stable atoms and emission of highly powered dissipation.

And finally inside the atoms constituting the physical mass the gravity generates the all encompassing presence of static Force causing transformation-degradation of neutron m-e M_{RM} which goes to build up the electrons and the protons.

The result is that the physical reality of the atomic presences is in continuous evolution whilst absorption and dissipation maintain a balance of presence of the physical masses in the physical universe.

This must be read coupled with the presence at atomic surfaces of analogical phenomena involving transformations-degradations of similar nature to those happening inside the atoms (constituting the chemical realities of the physical world).

Note: chemistry intended this way becomes a branch of Quantum Mechanics, in the sense that lots of notions which presently are of empirical nature would find physical explanation in QM and possibly also in the UDS.

In Science today, everyone plays his own fiddle mindless to tune with the other players