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Considerations over the problem of the knowledge of the Universe

day/dialogue fourth

Gravity and its effects on the mass-energies contained inside the physical mass or Heavy Mass (M_{HM}) .

The active grey matter of which our brain is made is enclosed in a limited volume, what varies in it, is the amount of knowledge that an individual absorbs and compresses inside it during his lifespan.

What then is the relation between knowledge and the mass of the brain? I am satisfied to have placed the question but I do not have an answer....

What pushes our brains to acquire knowledge is the unquenchable insatiable thirst of it that makes us compare our brain to a gravitational mass.

The knowledge retained by us drives our activities in the physical world and if these activities are directed to the improvement of the human condition in general, it can be compared to the Heat coming out of a gravitational physical mass.

The individual who accumulates large amounts of knowledge and makes efficient and good use of it can then be compared to a star.

I therefore leave to the reader the task to evaluate the stellar magnitude of the various individuals who reached that status, but I also leave him free to meditate over the fact that many individuals, although never reached the desirable beneficial point that the possessions of knowledge grants, were quite capable and fit to do so, and in many cases also had the opportunity, but missed it.

That not all the stars are "beneficial " is also a fact to be considered therefore the humanity would have been better off without.

Hence we must not marvel when we discover that the ancients were associating the stars of the physical reality to individuals rendered great by their works and the Universe represented for them the place in which their memory could be

perpetuated.

This then became a consuetude as is demonstrated by the fact that our physical U continuously is populated with the names of past and present individuals of reputation.

After I started more or less like that , P said : " You named other forms of m-e one of which is existing inside a mass in a status whose external effects over the physical mass can be measured in equivalent units of energy of movement (kJ) (a status in which the Spin which the basic particles of mass-energy bonded to the physical mass possess, is invariably directed towards the ESF in a single direction and absorbed by it together with the physical mass, producing movement of it , a status which you called inertial mass-energy or in terms of equivalence Kinetic Energy), and that filled me of curiosity, I am very keen to know what you developed in this field ".

To this he added:

P.: why (for a start) you never made reference to electrostatics in which the scientist's perception of a Space without Ether/ESF is not accepting the idea that clusters of m-e acquire electrical characters when they are surrounded from a stationary field of mass-energy in which the SP particles introduced (measured as equivalent Work supplied), are captured by the ESF in a manner compatible with the characters of the said clusters. If I am correct is Work that introduces electrical characters inside a neutral atomic mass generating the Force capable to separate electric charged particles (as we know them) since its presence in equivalent m-e is split into two equal permanent fields of opposite characters resident inside the ESF and adhering to the two basic entities of the atom (the electron m-e and the proton m-e).

To this opening I answered in the following way: "I must apologize since in the attempt to restrict the matter I could have sacrificed the clarity of exposition and now, if this is the case, I foresee that everything could come out garbled and I may lose the capacity to communicate".

As far your question is concerned in the attempt to maintain myself along the path of clarity of exposition I will try here to respond limiting the subject to the gravitation although in some cases I cannot avoid to refer to phenomena perceived to be of electromagnetic nature, since is the gravity that producing the Static Force initiates everything from the formation of the neutron m-e and of the electron m-e to the internal phenomena of transformation-degradation leading to dissipation.

Presently the dissipation as a very complex phenomenon of gravitational nature has been explained in terms of electromagnetism but I perceive that is only m-e made up of SP particles whose spin is fully released in the ESF and carrying the memory of phenomena internal to the atoms from which came out, and capable to induce in the objects on its way phenomena of electric nature from which all the plethora of the electric and magnetic effects can be derived.

Note: photovoltaic effects constitute the perfect example of transformation of

dissipation into a phenomenon of electric character taking place when the dissipation hits a physical mass of predetermined nature.

Today the internal gravitational development of m-e inertial from an equal amount of m-e gravitational, inducing in the whole mass to which it belongs the status measurable as kinetic energy as it happens on a mass in freefall towards an object endowed of a much larger mass is explained as the effect of the gravitational Starter Force that moves the point of application along the line joining the centers of masses between the said object and the Large Gravitational Mass M_{LGM} reducing the distance between their two centers and in the process becoming amplified by the amount of movement $\Delta r = v\Delta t$ (for $v \ll c$):

$$F_{\text{Starter}} \Delta r \cong M \frac{(v-0)}{2} v = \frac{1}{2} M v^2$$

The above expression is comparing the two forms of energy: Work and Kinetic Energy as total forces F_T .

Then when we want to reinstate (invert the phenomenon) and return to, the initial frame we only say that if an external Force opposing the Static Force and slightly larger than it, is applied and multiplied (amplified through multiplication) by the displacement Δr (run against gravity) the result represents a total Force absorbed as energy of position or the total amount of energy that is necessary to introduce as Work if we want to return to the initial frame and since kinetic energy and Work are equivalent the work produced by transformation, that during the fall is present as kinetic energy, is equal to the one necessary to reinstate our object to the initial position in conditions of quiet.

This is only partially acceptable since we know that the Kinetic Energy developed by the physical mass moving in favor of gravity from a frame to a second one, along the radial Δr , is resulting from transformation of Work developed as internal neutron transformation, and Work inserted in the physical mass moving it against gravity is absorbed and transformed into neutronic m-e ΔM_{ESCM} .

Along this line of reasoning, if we want continuity of cause and effect, we need a physical mass reaching the end of the movement in the second frame in conditions of quiet and this is only possible if we dissipate through friction the M_{ESCE} generated from the neutron m-e M_{RM} , when afterwards from this second frame we invert the direction of movement in order to return to the original position (or frame), we need introduce Work through insertion from outside of m-e of equivalent to a Dominant Force that brings back the physical mass concerned to the initial frame, therefore we have a situation in which the total value of physical mass returned to the initial frame in a status of quiet is unchanged but the loss of ΔM_{RM} transformed into M_{Heat} which is unrecoverable was replaced by an equal amount of ΔM_{ESCM} of external origin.

This is what confronts us when we want to explain a go and return movement between two frames along the radial direction but if now we want to explore the possibility that there can be a reversible transformation from M_{ESCE} to M_{RM} in the return phase, we must refer to the Borehole which as said is a mathematical

instrument rather than a physical device but reflects unquestionable physical conditions and is more congenial to our understanding.

In this Borehole the physical mass M that falls through it from the surface, starting from one side of the Large Gravitational Mass M_{LGM} , before reaching the other side varies its velocity from zero to a maximum in the center and thereafter with velocity values continuously decreasing reaches the other extreme with a zero velocity, therefore it has acquired and lost kinetic energy without sensible external exchanges of mass-energy, (without the agency of an external Force).

The meaning of it is that from a first internal transformation from M_{RM} to M_{ESCE} which happened from surface to the center during which the acceleration of gravity directed towards the center has gone from a maximum value to zero in the center, we had disappearance of M_{ESCE} when the value of gravity varied from value zero to a maximum in the opposite surface.

We are confronting a gravitational configuration of mirror type which is to say, a phenomenon having the physical possibility to be perfectly reversible, during which the m-e M_{ESCE} gradually disappears the same way in which gradually appeared.

The crucial question now is: "what happened to the m-e ΔM_{ESCE} (corresponding to an equivalent value of Kinetic Energy) that gradually appeared and disappeared? Can we admit that it has been retransformed into m-e ΔM_{RM} ".

To this question we must oppose a series of considerations before deciding the answer.

We do know that transformations in the energetic cycle always correspond to degradation of the spin character and therefore are irreversible, nevertheless here seems that we are confronted by a case of reversibility in which the m-e from ΔM_{RM} has been transformed into m-e ΔM_{ESCE} and proof of it is the movement giving us a value of energy in kJ equivalent to a ΔM_{ESCE} in Ton and thereafter apparently this ΔM_{ESCE} has been retransformed into ΔM_{RM} in Ton when reabsorbed in the passage from the center to the opposite side of the M_{LGM} , but we know that this is impossible, though we have this fact before our eyes, what then can be the conclusion?

We must admit that for the principle of conservation of the m-e M_{ESCE} could not disappear but in the other hand M_{ESCE} has not become M_{RM} , the solution is that M_{ESCE} necessarily must have become during this inverted process a form of m-e that was called by me M_{ESCM} (Energized Space having Mass Characters and therefore constitutes a return to a degraded gravitational character of m-e whilst maintaining the inertial character).

This M_{ESCM} can be identified with the glue holding together the particles type neutron (neutrons and protons) whose presence is allowing the atomic nuclei to grow in size, since gravity increases the particles of neutron mass and internal transformation-degradation (as I will show) makes available the glue which binds together these more or less equal sized particles (the neutrons and the protons).

The Spin character has been redirected inwardly towards the centre of the nucleus made of M_{RM} but being the mass unable to return to the status of M_{RM} it has diffused the SP haphazardly creating bonds between the neutrons (and protons) present in the nuclei.

The same happens (as indicate above) when on Earth we move a mass against the gravity in a fashion in which the Work (Total Force $F_T = F_{STARTER} * \Delta r$), which caused the displacement against gravity of the opposed Static Force, to a position of higher level is absorbed in terms of equivalence as mass-energy ΔM_{ESCM} .

Note: I overlook now in these explanations that inside the Borehole there is a phenomenon of temporal nature, consisting of time retardation when part of the neutronic m-e becomes inertial m-e and a value of velocity is developed and there is time advance on the same scale developed when the inertial mass is reabsorbed as m-e M_{ESCM} .

The consequences of these discoveries are to be considered important, since we can now affirm that if in gravitational conditions inside a Borehole we have a cycle of this type run many times , the m-e M_{RM} within the physical mass M that runs these cycles, is gradually replaced by M_{ESCM} , we have that the m-e M_{ESCM} inside the physical mass M increases at the expenses of the mass M_{RM} whilst the physical mass M goes through these internal cycles of transformation-degradation.

The mentioned time phenomenon in the other hand, at the end of each cycle does not show its presence since on a clock, the effects of retardation and advance have cancelled each other, but we must consider that since the time phenomenon is associated to a physical transformation, cannot be denied that in this case since the transformation produces at first loss of the gravitational character becoming inertial mass-energy and causes reinstatement of the gravitational character to it during the second phase, the measure of the time during these two consecutive transformations-degradations acquires relativistic characters which by necessity need a complete cycle to cancel each other .

P. : I am not completely convinced , what if the transformation is completely reversible and the m-e M_{RM} transformed in M_{ESCE} returns to be M_{RM} in the inverted part of the cycle ?

I : assuming that this happens, then we have to accept the fact that in the gravitational case, described above, in which, Work of external origin inserts against gravity an equivalent amount of m-e only inertial which has to be transformed into neutron m-e M_{RM} , this constitutes reevaluation of the character of the m-e and this is against what we have affirmed up to now, i.e.: "that transformations against gravity produces a non reversible degradation of m-e into M_{ESCM} and external supply of m-e as Work comparable to presence of M_{ESCE} cannot undergo upgrade, for that reason is even more evident that a return to m-e M_{RM} is not possible and then this is not all since as we can already guess the M_{ESCE} is very close to the status of Heat and if whilst this internal transformation , from M_{ESCE} to M_{ESCM} , takes place, there is some sort of friction, an amount of m-e M_{ESCE} instead to be transformed into M_{ESCM} becomes M_{Heat} ready to come out of the physical mass M in dissipation, and this is another reason contributing to render this transformation irreversible.

P. : disappearing the m-e M_{ESCE} from the mass also the velocity that you attributed to a phenomenon due to release of Spin of m-e belonging to the physical mass M and absorption of it by the ESF (interaction with the ESF) that induces movement, is reduced and if, as You say, the m-e M_{ESCE} as successive direct step of degradation can become a form of mass (the m-e M_{ESCM}) that excludes return to the status of m-e M_{RM} and glues the various modules or particles of M_{RM} together (and M_{Heat} which being completely detached from the mass is absorbed on its own by the ESF and therefore has no effect that can cause movement in the mass), it makes sense to think that the mass can lose speed whilst the Spin of the m-e involved in the transformation is reabsorbed inwardly , retransforming M_{ESCE} into M_{ESCM} .

But a physical mass M moving in the ESF is not subjected to friction in the ESF in the conventional manner in which we think it could, if we envisage the ESF like a very low density fluid or a gas, since if it is the ESF that collaborates to move the mass M how can the same ESF, through friction, impede movement at the same time? it seems to me that the only effect of the ESF in the physical mass endowed of M_{ESCE} should be to cause movements .

The results of these conversations were in sight, P. prevented my explanations and justifications regarding the presence of inertial velocity in a physical mass, and why in absence of transformation-degradation velocity remains constant, he had discovered it by himself causing in me a certain amount of resentfulness that I had to dissimulate, without succeeding, as can be judged from the tone slightly patronizing of the answer I gave .

I.: Friction is not certainly peculiar to the ESF , said I, since for it to exist it is necessary that a contact Force acts against the absorption effect of the ESF transforming the m-e M_{ESCE} into m-e M_{Heat} (releasing the connection that the SP particles endowed of spin which define the presence of m-e M_{ESCE} have with the physical mass).

Furthermore if in the case in which the physical mass M moves in the ESF in the radial direction against gravity, (like in the Borehole when it moves from the center to the other extreme) we exclude any contact Force with other physical masses, when M_{ESCE} gradually decreases, we have that the inertial resistance of the mass to variation of movement constituting the Force in opposition, that previously was directed against the increasing velocity, changes direction and whilst in the case of acceleration was directed against the direction of movement now that we are in deceleration is inverted and therefore is directed in the direction of the movement .

The Force acting causes a transformation happening against gravity of the internal m-e M_{ESCE} into m-e M_{ESCM} , therefore if there is a perfect energy balance (no production of Heat) as already said, in the Borehole ΔM_{RM} is transformed at first in ΔM_{ESCE} and afterwards into an equal quantity of ΔM_{ESCM} (since we excluded external contact which can cause friction between the atomic surfaces and loss of M_{ESCE} which comes out as M_{Heat}) but we know that a perfect transformation is not possible , we then must assume that a small quantity of

M_{RM} instead of becoming M_{ESCM} at the end of the cycle that sees the velocity return to zero value, due to internal frictions, has been transformed into M_{Heat} .

It is my opinion that when a physical mass is moving at constant "inertial" velocity due to presence of M_{ESCE} , eventually during the course of a period of many billions of years will gradually lose through dispersion the ΔM_{ESCE} whose value will be tending asymptotically to zero (although I doubt that a physical mass M will ever reach the absolute status of quiet).

Until now I had considered my turf inaccessible therefore I could not refrain to be on a state of alarm, one side of my consciousness was telling me that at this point in time was for me necessary to communicate, in the other hand I couldn't control my status of mind.

In conclusion there was confusion in me and I realized that was necessary to overcome it and quickly.

I repeated to myself many times that as I was submitting more explanations I would have acquired a better understanding of the matter, and therefore I would have been always a step before any pupil or interlocutor, but this was a state of mind difficult to bear.

I excused myself saying that I was tired and I would have continued the subject in our successive dialogue.

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