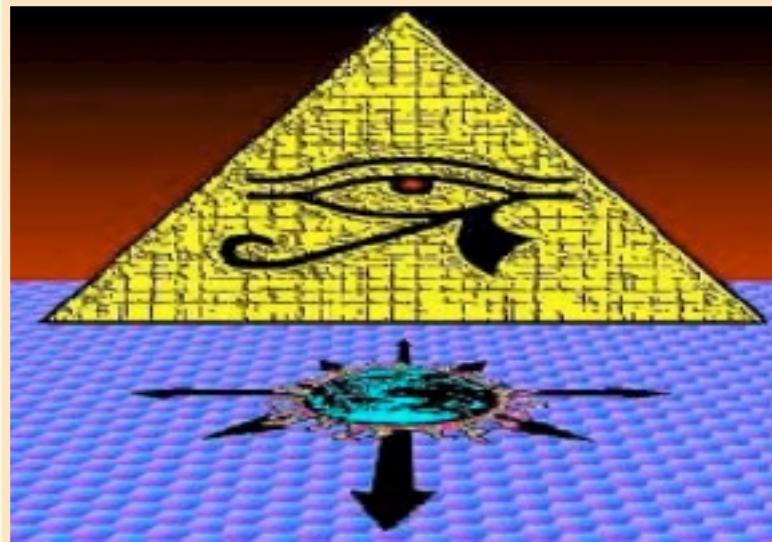


# SCIENCE OF QUALITY Serie n° - 1

“Transformations in the perceptions of time and space shape an new historical understanding of the world in order to amplify the level of scientific investigation of Bio-Quantum Physics” .



*“For the ancient alchemy The visual perception can be extracted by a fluid permeating all space like an aether. In modern approach to bio-quantum physics the existence of an exceedingly information matrix can be seen as an interface between subject and object of perception.”*

Note:

*The ancient figure of Alchemy hold of a double representation of Space Time :*

- 1) Euclidean space pyramid of exteriorisation of Perception*
- 2 ) IPER- FLAT base of interiorisation of information domain*

## **Title: Renaissance of Alchemy in Bio-Quantum Physics of Space -Time**

**Abstract:** The ancient Art and Science of Alchemy, throughout the industrial age of science and technology, are looked upon as mere junk of the past, e.g. a dark and bizarre cloud upon the sky-light brilliantness of more recent science history. The reductive vision of contemporary science and technology it is fundamentally due to lack of knowledge derived by the arbitrary splitting between the subject and the object of the perception. This separation was considered an absurd idea by the ancient Arabic conception denominated "Al" (article) and "khemi", e.g. the old Egyptian Science of matter transformations and transmutations. In fact Alchemy and Esoteric basic comprehension in Science and Art, both belongs to a global perspective where the observer need to be considered as an integral part of the observation to get a conscious scientific results. In fact Alchemists used "philosophical stone" (i.e the matter of mind) as an enlightenment to search the hide knowledge of transformation of matter in gold. Similar mode of integrated perception of reality nowadays is becoming the driver of the frontiers of science in Bio-Quantum-Physics (1). Thus the modern science of is embedding the ancient intuitions of the space-time structure of interpreting the context were the perception of the events are becoming.

### **Article:**

The Ancient Alchemy believe that the visual perception it is integrated within other sensation like touch, smell, and acoustic sensation, all focused in the brain modelling of external information. This conceptual tradition of Alchemy and antique Esoterism, was the basis of the meaning of Hippocrates of the Greek island of KOS (460 BC) about the brain ability to perceive. In fact Hippocrates do not believes to the existence of an objective substance as an external isolable state, living outside of an integrated space-temporality generated by a mental bases, that effectively fabricates perceptions and sensations into the brain in replying to the external stimulations. Of course antique paradigm of Alchemic sciences assumes that "something", in effect existing in the external world, can be the cause of a simulation generated by the perception organs in the brain perception. As a result the reality that we know can be conceived as a mind product of an integrated input of various senses (smell, taste, touch, audition, sight) coming from a space-time projection of world in the mind images.

Only within reductionistic classical physics, born at the beginning of the Industrial epoch, splits the osbervator from observation in a way tha space and time to be conceived as two absolute entities. Isaac Newton (1642-1727), conceived that time and space both exist as two absolute entities living independently of the mind. In this way can be possible to measure the speed and the acceleration of motion into a mechanical paradigm og science. In fact classical mechanics is the science through wich the true motion happen, only where an object is moving withouth changes in their form, in the context of an indipendent reality of the absolute space , and in condition where time apparently can be numerated by means a succession of single instants; each of them, withouth duration e.g. as pure numerical unidirectional and reversible timing-flows . This concept of istant of a measurable clock-time, can be conceived only if the instant of present it is identical to every previous of subcessive instants . Therefore this conception assumes a nature of identity, perfectly stable during the moving object , over every time conditions. Thus this way of mechanical thought, excludes a priory every event of change during the motion of an object in the absolute external space. To accept this paradigma of classical Physics, it is necessary that the virtual absolute space corresponds to the existence of an absolute numerical time, in a way that the pure mathematical time flows equably, without relation to anything existing in the external space, where lives the subject. Only in this arbitrary concept of the Newtonian Space /Time, the timing dynamics of mechanical motion of an objects is becoming completely independent of the effective subjective perception (2) , (3). Now I would like to remember that in the alchemy – epoch, the light was a question of perception and nobody think about the speed of light because the effect of the vision of light is considered as immediate effect. This do not means owing to an infinite velocity of light but though a simultaneity of perception, due to the anticipation of the brain construction of images. However after the measurement of of the speed of light as constant (Michelson-Morley experiment- 1887), and indipendent from the direction of the movement of radiation , Einstein's work, on special relativistic physics, changes the frame of reference and so that time and space are no more viewed as independent dimensions. Einstein's discoveries have shown that, due to relativity of motion, our space and time can be mathematically combined into one "four-vectors frame" of space-time. Therefore the invariance of the speed of light, (forgetting at moment the need to understand better the

effective brain - perception of information), was by Einstein associated with the limit of information travelling .The way of science thinking in special relativity is based on the declaration : “no objects as well as no information”.

#### EXTENSION OF THE ENERGY CONSERVATION LAW

To day an encouraged additional way of thinking about organizational communication in living system , occur through redefinition of boundaries and roles of Space-Time, this framework it is seen in relation to the role of the brain - information . In this innovative perspective a first consideration is that the information in the brain is not a subjective factor, this because brain is a pure objective body , and only mind can be considered as subjective interpretation . A second evidence is coming from the idea that DNA cannot be the only molecule that store and communicate information, this because DNA need an interactive reply to actuate the living forms of cells and organisms. Therefore in relation to living systems, Information Energy and Fee-Energy and Matter Energy, all of them need to be considered in the Bio-Qu.Phys science development, as mutually interdependent factors differently codified, as comparable functions of the total energy.

And so, referring to those preliminary consideration it will be necessary to extend the “Energy Conservation Law” till now limited to a mechanical approach. In fact the word energy comes from the Greek 'enérgeia, that means "operation". This term is itself a compound of 'en and 'érgon, "work". Because in modern physical science the notion of energy is associated only with mechanical work, therefore Energy is commonly defined as "the capacity of an agent for doing a quantity of work" in order to understand the production of motion against resistance. As a consequence this reductive mode of scientific thought is based an action /reaction reply; therefore don't includes in explicit terms the communication of information, that is the basis of evolution of living systems .

Finally if we considered that the life is a product of the whole Universe we need to extend to the Information parameter the Revision of the “Law of Energy Conservation”, as an assets that is becoming necessary to go beyond, the previous restricted approach of mechanical thought in order to build up the Bio-Qu.Phys science in the context of the “Gaia Theory”. Therefore for this challenging goal we decide to revise the traditional Energy Conservation Law codifying as new virtual energy the “Information” (I); this because (I) can be transformed in other forms of

quantum energy codified in terms of communication all over the geo-organism of the Universe. Consequently taking into consideration “ information energy” as a part of the total energy-matter Bio-Qu. Phys. transformation, we obtain that the global variation ( www.) of the sum of all the transformation of energy components must be equal zero. So that if we add all the different codification of energy in relation to the all possible combinations of the space time coordinates in syntheses, we sum up :1) the Vibration-Energy, (E), and 2) the codified-energy like Matter (M), plus 3) the Information energy (I). (5) At this point because the global variation (www.) of any constant (K) is equal to zero we obtain:

$$\langle E \text{ total} = (E) + (M) + (I) = K \rangle ;$$

i.e. at any time

$$\langle \text{www.} [ (E) + (M) + (I) ] = 0 \rangle$$

This equation gives three different solutions that can be the basis of a differentiated co-evolution of differentiated “Habitats in the Universe” where the Space –Time coordination will be different.

$$(1.): \langle +w. (I) = - w. (E) - w. (M) \rangle$$

(1.) The growing up of Information Energy correspond to enrich the minimum of the other components of energy. This result is nominated the "PRINCIPLE of FERTILE EVOLUTION" , that we consider the fundamental reason of the direction of the evolution of life on the Earth.(1)

$$(2.): \langle +w. (E) = - w. (M) - w. (I) \rangle$$

(2.) -This formula can be considered as a model for the stellar evolution of Energy emission in Solar Type Stars.

$$(3.): \langle +w. (M) = - w. (I) - w. (E) \rangle$$

(3.) This formula can represent the evolution of Matter in axi-symmetric space /time of rotating Black Holes where hyper-rotation can create additional matter . Certainly those formulas, all embedding Information Energy (I), need to be planned in a massive research program (6) that can be developed through an European IDEAS project (7) of Bio-Quantum Physics in the near future.Now I would like only to emphasize that an unified field concept of space-time cannot more be possible after the introduction of the

to put in evidence that artists recognised the problem of the need of a new expression of the art-communication no more connected with a three-dimensional perspective of the Space-Time. As a matter of facts painters like Salvador Dalí and Vasily Kandinsky and other modern art protagonists, did not abandon the original ambition to anticipate intuitively the conceptual changes in the mind evolution of humans. They tried to incorporate the paradoxes of science into the new painting and artistic solution in order to describe the world, outside of the traditional spitting between subject and object in order to advance in a communication of mental pure information. This was a result to be aware of that their thought and emotions are an inextricably part of any description and shape of the world made at the moment when they illustrate it. Therefore modern art was born, not from any bizarre vision, but from the artists' increasingly acute awareness of the elusive complexity of what at first seemed so simple but today obsolete in the traditional method of communication of external three-dimensional observation of the world.

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**Salvador Dalí : Cloks**



**Kandisky: Abstractism**