

from “EVERYTHING COMPUTES” TO “EVERYTHING SIGNIFIES” THE FIRST METHODOLOGICAL VICE OF THE MODERN PHYSICS

The basic interactions in the universe are neither only interactions within Energy itself, nor only interactions within Information itself; they are interactions between Energy and Information.

The interaction “Energy-Energy” was carrying the conviction that there exists a “Physical reality”.

The interaction “Information-information” was carrying the conviction that there exists a “Psychological –Mind Reality”.

The interaction “Energy-Information” (Information- Energy) partially shakes the faith in the dogmas of these two traditional convictions-beliefs, and leads to a third conviction – that most probably there exists another, more-fundamental Reality - which is neither only physical, nor only psychological. Moreover, that it is “Hypo-physical - Hypo- psychological Reality;” Hypo-energy – Hypo-information Reality or (Hypo-physics – Hypo-psyche Reality, or Proto-physics – Proto-psyche Reality “), which probably precedes the separation of “physics” from “psychology”. Furthermore, only if this reality is dissociated or disintegrated, it will be possible for the two secondary additional realities – “Physics without psyche” and “Psyche without physics” to manifest themselves, which apparently seems quite absurd, and sounds like an oxymoron.

This “Hypo-energy – Hypo-information Reality “ (“Proto-physics – Proto-psyche Reality”) according to us could bear the name “Semiotic Physics”, as far as the “Semiotics”, and the “Sign” is such as to carry inside itself equally distributed both the substance of Energy through Signifier, and the substance of Information through Signified.

The latter becomes evident after the discovery that the Mind of the physicist interacts with and participates in the quantum event during the observation of the event.

The interaction between the Mind of the physicist and the quantum object is the most direct evidence and ostensible proof that such an interaction between “Energy and Information” is realistic. It is realistic in the sense of being ostensible sign of proof that the Information in the physicist’s Mind interacts with the Energy of the quantum object, and also a sign of proof that the Energy of the physicist’s Mind interacts with the Information in the substance of the quantum.

By saying that we unambiguously want to point out that it is methodologically wrong the Quantum event to be considered as composed either only of Energy, or only of Information, since the truth is that the Quantum event occurs when both Energy and Information are equally involved.

Yet if we want to find out at once the whole secret about the Quantum event – we have realize that this is exactly the Interaction between the Energy and the Information within the limits of the quantum event, that creates and carries the whole secret and mystery surrounding the quantum reality.

Interpretation of the Universe in terms of Energy was the classical understanding of Physical reality, according to which the universe consists of Energy.

Interpretation of the Universe in terms of Information (bits and cubits) is the one

according to which the universe consists of Information; and the one which gives birth to the new scientific discipline “Quantum Information” – (see the theories of all scientists from Hawking to Gary Horowitz, Juan Maldacena, Seth Lloyd, Jack Ng and others). This interpretation itself is a great achievement but yet, it still continues to drag after itself and even worsen the old blindness of the classical science, which claims that Energy and Information do not interact with each other.

The Interpretation of the Universe in terms of “Energy-Information Interaction”, which is analyzing the universe in terms of “Signs” or in terms of “Semiotics” – according to which the universe consists of “Energizing Signs” or “Energizing Ideas” – might become the new belief that the Universe neither consists only of Energies, nor only of Information (Ideas), but in fact it consists of “Energy-Information”; “Information Energy” or “Energy Ideas”, or “Energetic Thought”.

We say “Energetic Signs” – i.e. the universe consists of Energy and Information interacting with each other as far as the Event, which naturally combines in itself into one Unarticulated Unity at the same time both Energy-Percept-Sensorium-Being (by Signifier) and Information-Mind-Psyche-Concept-Intellect-Knowledge (by Signified), is the event of “Signs”.

Only the insight that on the contrary- Energy and Information interact with each other, and that this interaction is probably the most fundamental interaction, and its evolution or disintegration leads to the rest of the interactions, known as “physical” and “Psychic”- now brings clarity into the old obstructionism, and introduces Unity and Monism into the world, where previously the world was unnaturally split into Res Cogitans and Res Extensa; and the world was forcefully described through two different terminologies, two different cognitive experiences and two mutually exclusive cultures: Physical-Energetic culture and Psychic-Information culture. The first was still bearing the name “Natural sciences” and the latter - “Humanities”.

Thus, the substance of which the universe is built is neither only Energy, nor only information; neither separated from each other energy and information (as they exist in the human experience in the separating “Cognizing and Cognized); but it is a substance of constantly interacting with each other “Energy information” and “Information energy”. This is to show that the substance composing the universe is in an Inseparable state of “Energizing Idea” and “Idealizing Energy”, which was not yet the state of the substance in which “Energy-without-Form” separated from “Form-without -Energy”.

Second basic vice of the modern physics:

The fundamental interactions in the universe are not the interactions that maintain the integrity of the particles and the invariability of the events; they are the ones that destroy the integrity of the particles and transmute them into each others; and they are the ones that change the course of the events.

Consequently, the basic interactions in the universe are not the Transfers; in fact the basic interactions are the Transformations.

However, if transformations dominate transfers, it means that the fundamental interactions should be described not through the Logical operations of the Quantity maintaining the substantive self-identity of the particles, but that they should be described through the Semiotic transformations of the Quality – destroying the substantive self-identity

and establishing the principle of the “substantive non-self-identity”.

The discovery about the “transmutations of Elementary Particles” made the focus of the methodological point of view shift from “physics described through the logical operations of the Quantity” to “physics described through the semiotic transformations of the Quality”.

This shift occurred mainly because the tradition of the operations of the Binary computer logic gives a description of just one Quantitative universe – whereas, the new tradition of the semiotic transformations allows a description of one Qualitative universe. Yet, the shift from a Quantitative universe to a Qualitative universe is nothing else but a shift from a Physical universe to a Psychic universe.

The conviction that the “physics of the semiotic transformations” provides more relevant and more objective description of the universe than the “physics of the binary computer-logical operations” is based on the view that Signs as Semiotic events are more natural elements of the universe than the “Energy” units (joules), and than the units of “Information”-bits, not only because the “Sign” contains and carries at the same time in itself the elementary Hypo-information, “Dunamis” through its “Signified” and the Elementary Hypo-energy through its “Signifier”, but also because the “Sign” carries in itself the units /bits/of information through its “Signified-Concept” and the units of energy through its “Signifier-Percept”.

This is so namely because the Sign connects and carries in itself the two worlds – the macroscopic world through Energetic Signifier and the Quantum world through Informational Signified ,and what is even more important – the Sign performs and achieves inside itself that kind of continuous transformation of Energy into Information, and of Information into Energy – (through the transmutation of Signifier into Signified, and vice versa).

As a result of this transformation the Energy and Information become indiscernible and transformed into each other substances; and energy is defined as “converted information” and the information as “converted energy”. This process allows the universe to unveil itself as a result of this continuous mutual conversion of Energy and Information, which in turn proves that as Energy as Information are not primary, on the contrary- it proves that they are secondary substances, born through the disintegration and self-dissociation of one more-primitive “Hypo-energy – Hypo-information Continuum”, in which Hypo-Energy” used to be “Thinking Energy”, and “Hypo-information” used to be Energizing Thought” or “Energizing Eidos”.

What we want to emphasize on is that it is equally wrong to describe the universe either only through using terms of “Energy” (as the classical physics do), or only through using terms of Information (as the new study “Quantum Information” does.)

It is necessary to create awareness of the fact that it is more natural to describe the universe at the same time both through the terms of Energy and the terms of Information; not to describe it consecutively first as “Energetic universe” of objects and Cognized, and then to describe it as “Information universe” of subjects, Mind and Cognizing.

For, only if we describe the universe at the same time both as Energetic and Information universe, we will ascend spontaneously to the clear vision that the universe is secondary divided into “Energy Cognized” and “Information Cognizing”, and that only the assumption of its unity can guarantee its simultaneous description as “Information interacting with energy” and “Energy interacting with information”.

Hence, the “energy interacting with information” is “Informational Energy” or (Thinking Energy”) and the information interacting with energy is “Energizing Information”, or (“Energizing Thought”).

Because only the understanding of the concepts “Thinking Energy” and “Energizing Thought” can provide a description in which these processes are described together and simultaneously.

