

The Theory of Everything

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Abstract

It is a well-known fact that astrophysicists have always been involved in an effort to form a unified theory which would connect quantum mechanics and correlation-classical physics (theory of everything). Their basic tools are observation, experimentation and the documented knowledge that ensues. Despite the great progress though, a great deal remains unknown and difficult to interpret, for instance what happens exactly during the double-slit experiment and why? What is the Boötes void? How does dark energy exist and why does its power constantly increase? What is the nature of dark matter and why does the uncertainty principle apply? And so on and so forth.

Our effort, which may offer answers to the aforementioned questions, will be based on the observation of the Universe as a whole (matter, life, man) mainly using as tools inductive and proportional reasoning. Naturally, we use the scientific knowledge we have already acquired. So, it is known that the universe functions as an integrated whole. Following inductive reasoning, life and man are part of this whole possessing common properties with it. If we find the way life integrates in the universe then we will possess a powerful tool to comprehend matter and the universe better. Fortunately, our knowledge involving life and man is much more advanced than our knowledge involving the microcosm and megacosm and this is what will help us to delve into the matter and the universe.

Keywords: Universe, Man, Life, Micrography, Unified Theory

Analogies Between Life and The Universe

Our suggestion concerning the connection among life, man and the universe is that life is a micrography of the universe quantitative, temporal and evolvingly qualitative, if this is correct, then the former two are easily comprehensible: we live for a short period of time and are of insignificant size. Life evolves qualitatively leading to man due to the competition of species for the struggle of existence, and logically the increasing simulation of life with the universe reinforces the dynamic for survival [1]. Thus, man as the last creation constitutes the most appropriate reference in order to discover the common qualities and characteristics of life and matter – universe.

Our proportional reasoning leads us to the most predominant analogies between man and the universe while at the same time certain conclusions can be drawn as far as matters of physics and cosmology are involved. These analogies are as follows.

- Birth of the Universe with the explosive "Big Bang". The commencement of man's existence with an intense orgasmic experience analogous in energy and time with the big bang.
- In the first 380,000 years, before radiation disengaged from matter and specifically in the early stages of the Universe, there were formed structural characteristics of its components (charges and quantum numbers of particles, coupling constants of electromagnetism, strong and weak nuclear forces, electron shells) [2]. Correspondingly, man's childhood, and especially during the first five years of his life his character is shaped and remains thereafter invariant, being a primary system of relation and interaction of the child with his parents and his environment that forms permanent answers to queries and propensities in his life. It is known in physics that the characteristics of matter which have been primarily determined never change. The "character" of man and matter does not change. This may explain the maximum limit of speed of light which never exceeds 300.000km/sec (special theory of relativity) which is the same as the initial value of its creation.
- The period of the Universe after the first 380,000 years is equivalent to human adulthood.
- The disruption of matter and the death of the Universe are analogous to old age and death of man [3].
- In the microcosm (particles, protons, electrons), the fast reversal of the events in which reacting particles and products take part in accelerator experiments of high energy, is possible. Something equivalent occurs with man on a cellular and molecular level (healing of a wound, restoration of a fracture et.al.) In the macrocosm and megacosm (environment, galaxies) the time evolution of the phenomena is not reversible (second thermodynamic law), as it generally occurs on a multicellular organism (man), the natural environment, or the Universe. Thus, aging is non reversible and in case of a collision of celestial bodies there can be no self-repair of damages.
- Man seems to be a very particular conjunction of macrocosm and microcosm: he is born, grows up, reproduces, ages and perishes like the macrocosm, while quite curiously, his complex qualities as his emotions, have properties of the microcosm, that is, the human emotion does not age, is unpredictable, may carry both joy and sadness (superposition in physics), it is changeable, vague and unspecified until its manifestation.
- In nature, during the evolutionary course, we observe the prevalence of two genders (male-female) and finally human reproduction is carried out with the fusion of a small spermatozoon with a bigger ovum. This is very similar to recent views of physicists who report that the birth of our visible universe materialized with the irruption of a minute field of matter – Higgs boson (https://en.wikipedia.org/wiki/Higgs_boson) – in a receptive entity – vacuum bubble. We may reasonably assume that the evolution of life leads to a greater fidelity to cosmic processes: one spermatozoon (equivalent to the Higgs boson) always unites with one only ovum (analogous to the vacuum bubble) even in the case of twins, also the male tries to impregnate the female, which thereafter undertakes the gestation, birth and growth of the newborn, as occurs with the "maternal" bubble that acquires mass, and the course of the universe is modulated after the Big Bang.

Hypotheses – Suggestions

Having highlighted common characteristics and analogies between man, life and the universe, we can proceed to more advanced relative conjectures that potentially offer answers to unresolved issues concerning man and the universe as well as scientifically unfounded beliefs of peoples and civilizations. Basic assumption for this correlation is that a major event which takes place in life will have its analog in the universe and vice versa.

A. All living beings on Earth are in constant interaction with the environment and their survival is achieved through the exchange of energy between them and the environment. Microorganisms', plants', herbivores', carnivores' and mankind's existence depends on this exchange of energy. Why can't there be something equivalent in the Universe?

Science claims that the visible universe is a small portion (maybe 5%) of the total matter, and the rest (95%) consists of dark matter (of unknown structure) and dark energy. In fact, dark energy from a certain point in time and thereafter leads to a permanently increasing speed of expansion of the visible universe [2]. So, if there is an energy exchange, as in living matter, of the visible universe with dark matter then the increasing speed may be explained. More specifically, our visible universe emits electromagnetic energy (light) and receives, due to its volume expansion, constantly ever-greater energy in total from the dark matter. At some point this energy influx exerting positive pressure counterbalances the gravitational attraction of the visible universe and starts converting to kinetic energy of expansion. It is likely that dark matter was structured through its own process thus, its nature cannot be easily recognizable. Perhaps the only common denominator in the whole universe (visible and dark matter) is gravity.

More specifically, why can't matter exist in a multiuniverse as cosmology suggests, with the difference that it also sends energy as the visible universe which is relatively stable from the beginning of the visible universe. However, dark energy constantly increases due to the constant expansion of our universe and its volume increase, at some point it overpowered the gravitational force of the visible universe and the increase of its expansion speed started. Following our inductive reasoning the proportional suggests that the same happens on Earth with the multitude of different life species (many parallel reactive universes) which interact and survive and may die prematurely (for instance herbivores from carnivores) as it may happen with our visible universe resulting from the activity of the dark energy increase.

B. Human constitution, however, is not the mere outcome of reproduction, survival or even "macroscopic" character. Man carries specific information in the DNA molecule, a four-letter script (apparently) and a catholic ingredient of all forms of life, that guides the formation of outer look body type, inclinations, talents et.al. Likewise, the microcosm may have ancestral information from its previous existences. The rapid evolution of species ending in the creation of man is due to the DNA stored information which may have been based on microcosm information. If the evolution of species was accidental, we would have remained microorganisms. The hypothesis that prior to the big bang there had existed matter is not a recent one. Heraclitus, as aforementioned, with no scientific knowledge in the contemporary sense, «Κόσμον τόνδε, τὸν αὐτὸν ἀπάντων, οὔτε τις θεῶν οὔτε ἀνθρώπων ἐποίησεν, ἀλλ' ἦνάει καὶ ἔστιν καὶ ἔσται πῦρ ἀείζωνον ἀπόμεινον μέτρα καὶ ἀποσβεννύμενον μέτρα. » "this world,

which is the same for all, no one created it, neither God nor man, it is an eternal living fire which is lit and put out in moderation”, viewed cosmos as an ever-changing, ever-living fire foreshadowing – mutatis mutandis – the idea of the beginning of this universe like the Big Bang (ἀπτόμενον μέτρα) and its death too (ἀποσβεννύμενον μέτρα), Why could he not be right about the perpetuity of the universe too? [4].

Heraclitus’s thinking is of great help to us, a) it solves the problem of existence and origin of matter and inflation ceases to be necessary for its creation, b) it offers us the ability to explore other ideas concerning the creation of the Big Bang, for instance, a specific fact which ensued from the invasion of a relatively quantity of antimatter into a huge black hole (a small spermatozoon into a big egg), c) Why could there not be ancestral universes followed by future universes and thus having constantly recycled universes which are born, age and die (even prematurely) within a vast superset as it happens exactly in real life? It would definitely explain many life characteristics and man’s such as the need for reproduction and survival as well as peoples’ faith in future life, reincarnation and destiny.

The prospect that there are in the matter (obviously in the microcosm) information such as the DNA from previous existences is quite interesting and significant, a) something like this is possible because we know that the information does not get lost not even in black holes, b) perhaps the seven dimensions of the microcosm possess this information, c) this information may be able to explain the many paradoxes appearing in quantum mechanics. Finally, in a recycled multiverse Boötes void perhaps an initiating universe in its initial super dense phase and does not allow the existence of galaxies.

C. Nevertheless, in living matter animals and man are characterized by the feelings of free action, pleasure seeking and pain avoidance. These feelings remind us of the microcosm and quantum mechanics when particles that are restricted react by increasing the speed of their movement. Perhaps this can be interpreted as a tendency for freedom in the microcosm. Also, in the double-slit experiment the electrons crossing two parallel slits leave a print resembling a wave, strangely though, when an observation device is used for the slit, the same electrons leave a print of particles crossing. Perhaps the particle “likes” to move as a wave but “shrinks” when observed. Heraclitus said that nature loves to hide, «φύσις κρύπτεσθαι φιλεί» [4]. The idea of some kind of complexity in inanimate matter even in a single particle is not alien to modern physics and can be found in Hinduism and Greek hylozoism believing that matter is living [5,6]. The microcosm possesses certain interesting characteristics. Apart from the inversion of facts being done experimentally perhaps with the information it possesses – equivalent to that of the DNA – from previous existences of matter, it may possess some kind of self-motion being able to act either as particle or wave, to “like” and “shrink” under certain conditions.

In order to reinforce this hypothesis an experiment is suggested. It is called the “butterfly” experiment which consists of a short direct course AB, from point B there is a left semicircle BKA and a right one BEA where K and E are 2 points of the semicircles used as pressure mechanisms for particles (Figure 1). Sending from the start (point A) particles we divide them half crossing the left semicircle and half the right semicircle, then we put pressure on point K (left semicircle)

and if our hypothesis is correct, we will soon observe a statistically significant increase in the particles crossing the right semicircle BEA. When this is consolidated, we reverse the pressure to the right semicircle on point E. Then we assume that there is going to be a reverse course in the particles crossing. If we repeat this many times and observe faster changes in the particles' course then we will have a strong indication that particles are able to learn from facts. Then we can say that particles possess self-motion, they choose to move as particles or wave, move freely in space and react when their specified characteristics (structure, speed, freedom of movement et.al.) are modified. Perhaps this is how the marginal speed of light can be explained (the photon reacts to the specified speed, at the beginning of our universe, and does not exceed it – as it happens with the human character). The uncertainty principle also constitutes reaction to the effort of revealing all its characteristics.

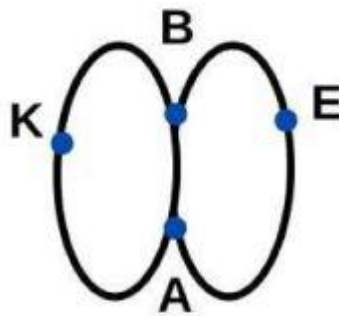


Figure 1

All these strongly remind us of the childhood of animals and men who possess the ability of learning and the innocence to hide, to enjoy everything carefree and with no plan et.al. All these things diminish in adulthood because then the characteristics and needs of the megacosm for survival and reproduction dominate.

D. In the famous EPR experiment two entangled particles (electrons) even with a huge distance between them, they communicate transmitting information faster than the speed of light. That is, some form of power (energy perhaps?) connects the entangled particles as it may occur in telepathy where two emotionally linked minds are able to exchange information [7].

E. Perhaps eventually the miracle of life is the result of the information the microcosm carries through its previous existences and creates life, and through its unlimited regenerations, produces information to a higher level. Perhaps life and universe share evolution as a common property through a potential exchange of information between matter and life.

Conclusion

To conclude, a final thought – synopsis is that everything in life and the Universe is the result of facts and memory. The Universe is defined by the primary facts of its existence and information from older existences, [even the fundamental forces – electromagnetism, weak and strong nuclear forces, which are the result of a particle exchange] [2]. Every human being is also the result of primal incidents of his early childhood and of the biological memory in its genes. Thus,

both are recurrent and primarily determined systems of information, relations and interactions. Certainly, life with innumerable species and generations and a short time span of individual organisms, culminated in man that clearly has qualities surpassing those of matter. For example, human imagination would not be expected to be accommodated in particles. Nevertheless, surprisingly, man cannot imagine but combinations of already experienced images, for instance the Centaurs (a mythological creature which was half-man and half-horse) were born in a combination of horse and man, in accordance with the fact that everything is memory and facts. Essentially the human brain functions as a computer programmed mainly during the first five years of existence (character) and also bears gene dependent properties and tendencies. Respectively, the structure and function of the universe is "programmed" in its first stage and carries information from previous existences of matter offering an additional potentiality of spontaneous action in the microcosm. Is it possible, eventually for life and man to be a brief and concise "theatrical performance" of the history of the universe?

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