

THE ESSENCE OF LIFE

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Abstract. An author considers that basic property of all living creatures is a capacity for creation, that supposes the presence of consciousness, free will, centralized structure. Drawn conclusion, that the indicated properties are inherent not only biological objects but also microparticless, to the atoms. A man before birth existed as an atom and will become such post mortem.

Key words: creation, consciousness, free will, centralization, electron, wave function, atom, hypothalamus, information.

What is main property of living creatures? It appears to author that it is a capacity for creation. What is creation? In the most general approach - it is making new, what is not in nature yet, what comes from internal world of the creator. And therefore it can not be conditioned external reasons. A capacity for creation supposes the presence of consciousness and free will. Even in the simplest bacteria it is needed to see these properties – in fact at the beginning of evolution exactly their creation property defined its way. As a result aroused complex life, including a man.

All these features cause the centralized construction of living creature, presence in it the «I», which at the same time is linked up and is opposed the outside world. When we peep in ourselves, we feel that we have a free will, i.e. our actions up to a certain extent determined exactly by us, not by external circumstances. This is native property of consciousness, all other is unconscious automatism or approaching to it. So a conclusion invites to that our consciousness has roots in foundation of the world, in elementary particles.

Why not assume the existence of consciousness, say, at an electron, which on modern notions is like a point and thereby an absolutely centralized particle? Especially as quantum mechanics talks its conduct very unforeseeable. On modern notions the concrete action of electron (jump on the change the state) is determined

external terms only by probably mode, and it is a fundamental fact, not a subject to decoding. The unforeseeableness of photon is yet more great, so that an electron can be considered partly material, because it have unchanging (absolutely predictable) descriptions – mass, charge, size of spin. Substantially material objects, i.e. objects at which consciousness a little or almost do not show up are remarkable for weak centralization in the construction or it is not present. Apparently, if to reason about the world in general, it is necessary to acknowledge equality of spirit and matter, as mutually complementary, mutually conditioned categories.

If we provide an electron with some prototype of consciousness and creation, a question gets up: where does the internal world of electron «take» place? After all on modern notion it is a point particle. Answer: in a wave function and electric field. On the one hand an electron is a point-like and on the other hand his position in space to a great extent indefinitely, and it forms the field. In addition it is surrounded virtual photons which form the electric field. So conditions for «placing» his internal world we can imagine somehow.

It is possible to give a glance on this theme from yet more general positions. Why in the world there are steady an electron, proton and their derivatives - atoms? (Neutron, existing in nucleus and out of nucleus being an unstable particle, is possible to consider as a derivative from proton and electron). Why are not they subject to the law of growth of entropy and does not disintegrate, by virtue of what our world until now exists? Especially as on notions of quantum field theory they, even being free, are surrounded of the cloud of virtual interactions. At an answer for this question, apparently, it is necessary to take into account that to resist natural destruction are able only living, therefore stable existence of electrons, protons and atoms it is necessary to consider as the result of action of factor which can be named the forerunner of life, and particles – the «seed» of life. But maybe, it is also necessary to consider it as life, only at other level. In case of occurring of suitable conditions on Earth this life, due to particles capacity of creation, broke through on a biological level.

How is it possible to see property of centralization in application to the man? Naturally, that a brain is a center for the body of man. Into a brain an author sees the hypothalamus as a main structure. This organ is subdivided at least into the dozen functionally specialized areas [2]. It is a main control-coordinating center of the vegetative nervous system. The information treated in a hypothalamus is used for adjusting of work of heart, lungs, maintenance of normal blood pressure, peristalsis etc. A hypothalamus is directly connected with a hypophysis and controls work of this endocrine gland. It is main connection between the nervous and endocrine (hormonal) systems of adjusting.

In a hypothalamus there are centers, responsible for the different aspects of mood and emotions, such as an aggressiveness, anger, fear and pleasure. Probably, here it is correct to talk about the very complex system of adjusting of conduct. The centers of thirst, hunger, satiety, adjusting of temperature of body, making of sexual hormones are known. Hypothalamic centers watch after composition of blood with the purpose of maintenance of homoeostasis. In a count on unit of mass this area of brain is provided with blood better than all other its departments. Consciousness is traditionally placed in large hemispheres. But they rather are a «computer», allowing a brain to execute complicated orientations in an external environment. But principal for existence of man are motives of him to the action, i.e. emotions, and they are determined by hypothalamus.

Into a hypothalamus, apparently, there is a main neuron, manager for work of whole organ, and into this neuron is a main atom, probably heavy atom. The last has the center – nucleus which contacts with a neuron through an electronic “fur coat”. That such connection is real, talks the phenomenon K-capture, when a nucleus take an electron, being on a lower orbit. In a nucleus also there can be a main proton. On modern concepts a proton is not a point particle, but consists of quarks among which also can be main.

It is in this connection possible to cite a characteristic quotation from [1]:

In notions of the american physiologist R.Lillie originally united monadologia of Leibniz, hillozoistic looks of the English philosopher A.Whitehead about

psychical activity of molecules and atoms, mnemizism of Bleyler-Rin'yano and concept about Heisenberg relations. Existence in wild-life of non-material directing factor of psychical nature Lillie logically derives from a fact of life insubordination to the second law of thermodynamics – fact, in our days share most biologists (Lillie, 1937, 1946, 1948). Originally Lillie considers that «psychical impulses», as he named a non-material factor, arose up in the «psychical field» of egg-cell, physical basis of which is formed by the aggregate of chromosomal genes, but afterwards under influence of Whitehead «loaded» them in the depths of atom.

End of quotation.

Such is a vertical «line» of centralization, get-away in an endless depth and determining consciousness of man. Endlessness gives a new category. From such position it is clearly, why I am born in certain time and certain place. Before birth as a man I existed as an atom which by chance or not very much by chance appeared at the right time in the right place. Why do not we remember our existence as an atom? Because our present memory lies quite in other plane, than that, atomic. Present memory is intended for fixing of events of human life, and that memory determines deep properties of personality.

Another aspect talks about «creative» atoms – informative. Can all living creatures be coded in DNA? This encoding must include:

- 1) a spatial structure of body up to petty details,
- 2) a system of adjusting of organs functioning,
- 3) an inherited conduct, including, for example, recognition of patterns,
- 4) a program of development of organism from egg-cell to the grown one,
- 5) a structure of cells and their organs, algorithms of functioning.

DNA is a chain of atoms, though very long: a man's chain is 2,2 meter long, but in it prevail empty, noninformative areas (to 95%) [3]. Can in it be coded all enumerated? It appears to author unbelievable. But if to present atoms as infinitely deep «seed of life», placing of the above indicated information becomes clear.

Quantum physics talks that the state of microparticles is determined by a

continuous wave function – for example, the state of electron of atom. And continuity supposed the endless number of degrees of freedom by power of continuum. So in principle any information content can be celled in a wave function.

What will be with me post mortem? Apparently, I will go back into the state of atom. But this atom will keep in the depths information about the former history, and he will try to provide itself the usual environment of dwelling, i.e. he will take root in some living creature. As a particle, possessing a capacity for creation, he will move progress, let assume, at cellular level, perfecting a construction and work of cell. In author paper [4] supposition is done, that biological structures can exchange information by means of separate complex photons, simpler speaking, with a telepathic way. Then activity of creative atom at cellular level will have a general biological value, much major, than that was done by him, being a man. In addition, a creative atom has not zero probability to appear again on a management of a human organism.

An important question takes place: why does a living creature at first grow and develops, and then becomes decrepit and dies? To answer this question will help a picture of atoms as living creatures - then it is possible to appeal to analogy to human society. When some organization is created, for example, an empire, people, who forms skeleton of empire, is full of enthusiasm, and an empire grows. But time goes, an empire arrives at ceiling of possibilities, enthusiasm goes out, begins stagnation, bureaucratization and then disintegration. The same takes place with an organism – empire for atoms.

Such appears to author essence of life.

References

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