

## THE CENTER OF LIFE 2

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*This article is devoted to clarification and addition of ideas, stated in author's "Great Center", supposing a management of biological life to a great extent from the center of Earth [1].*

*Keywords: zero vibrations, particles, gravitation, complex photons, Center, creation, organisms, philosophy.*

In order to understand, what system supports earthly biological life, it is needed at first to consider the concept of the field of elementary particles.

In obedience to positions of secondary quantization method of quantum physics the field of some sort of particles consists of great number of the various states of these particles, thus every state can be either filled particles or not filled. The last case does not mean that this state is not present in the field – it exists physically, although it is not filled presently. Moreover, in the unfilled state the so-called zero vibrations of birth-disappearance of particles take place with energy equal half of energy of particle in this state. In the field of photons there can be any number of photons in every state, as they belong to the class of bosons; in the field of electrons there can be either one electron in every state or no one – it is consequence that they belong to the class of fermions. Fermions also are five stable particles: neutrino, antineutrino, positron (anti-particle of electron), proton and antiproton ([5], [6: §16-19], [7: §2, 3, §11, §25]). It is possible to consider at such determination of the fields that they spread all over Universe.

Quantum physics deals with the operators of creation and annihilation of particles in certain states. These operators are mathematical notions, designed to reflect, first, the transition of particles from one state to the other, and secondly, the birth of pairs "particle - antiparticle" due to the energy of disappeared neutral particles. The author believes that we should expand the notion of birth-disappearance of the particles, adding their spontaneous production from the chaos of

certain proto-particles and the same leaving of existing particles to the chaos. Then this field can be considered as the promoter of the birth of particles from chaos under certain conditions.

The interaction of these particles forms all matter in the world. The fact that elementary particles are not subject to disintegration under the action of the law of entropy increase can be considered them as "seeds" of life. Read more about this in the author's work [2].

In biological life there are birth and disappearance (death) organisms. But in this sphere cannot directly apply the quantum laws, because organisms are macroscopic objects and there is practically no effect of spatial blurring states. What may serve as a field to them? The author considers, that they are united somehow with the center of the Earth: organisms are projected on the center, and the center is projected on each organism. Approximately these thoughts were presented in the work of the author [1]. There's also an assumption was made about the creative nature of the Centre, which allowed him to organize biological life, to become its promoter similar field of elementary particles.

The main delicate point in this outline is a question: how the information is passed from organisms to the center of the Earth and back? In [1] it is spoken: on the channel of a gravitational attraction of an organism. But in fact it is obviously not enough habitual concepts about gravitation: unbelievable, that the delicate information on an organism has reached the center of the Earth on distance of 6370 km at powerful interference and intensive thermal movement. For the answer to this question it is offered to consider a hypothesis about zero fluctuations of fields of complex particles. In work of the author [3] it supposed, that each body is surrounded by a field of zero fluctuations of birth-destruction of microparticles, and the given field reflects structure of a body. We assume further, that this field is a certain system from fields of the particles, defining interactions inside of a body. For the interactions which are not including that take place inside of nuclei, this system will consist of fields of electrons, photons and neutrinos. Photons define electromagnetic interaction between electrons and nuclei, as well as between larger units of substance.

Electrons form communications between atoms in molecules, currents in substance and besides participate in information transfer to nuclei at K-, L- and M-captures of electrons by nuclei. In last processes participate also neutrinos (weak interaction).

In case of organisms the specified systems of zero fluctuations form biological fields. It is improbable, that these fields fill all space where organisms live – most likely fields stretch in the form of cords from one organism to another, forming networks with subsystems for different types. It is the right « thin world » which postulate mysticism. As zero fluctuations of a general view form space and gravitation [3] it is natural to assume, that the biological fields also formed by zero fluctuations, free penetrate into substances deep. As organisms occupy all globe biological fields can reach the center of the Earth in the form of cords from separate organisms, there concentrate and form the operating centers. Management is carried out by the small influences sent on mentioned cords as on wires.

What is need for the emergence of life from inert matter? In the first place it is necessary to create a great, hierarchically constructed system of particles. The position of the head of the hierarchy is able to wake the creative energy of the chief particle [2]. On lower levels of the hierarchy, but not at the lowest, there are also incentives for creativity. It is similar to people. Secondly, it must create the conditions for creativity in the form of availability of a suitable substance and energy - a lowest level of the hierarchy. When life has gained momentum, specified conditions provide parental organisms and the function of the Center is in proper channeling of particles activity to build a viable organism.

There are many kinds of organisms, and each has its own center. Should be a hierarchy of such centers in accordance with the system of organisms, adopted in biology: species, genus, family, order, class, subtype, type, kingdom. It turns out that there is a hierarchy at the bottom, in the body, and at the top, among control centers (religions were right that the man is some kind of God).

The kernel of the Earth has temperature 3000 – 5000 T and pressure up to 4 million atmospheres. Under such circumstances elasticity of substance is 2.5 times greater than elasticity of steel, and it is in a special "metal" condition with density 13

$\text{g}/\text{sm}^3$  [5]. Here in such conditions there should be the central structures operating a life.

At the given approach it is possible to draw an analogy: fields of elementary particles have the basis in the center of the closed Universe in space of 4 (and maybe more) dimensions [8]. It is an argument in favour of closed Universe.

In [2] it has been assumed, that after death the organism is reduced up to atom, "clever" atom. Most likely it is heavy atom with a nucleus sated by the information, generalized and recorded during lifetime of an organism. Since such atom possesses creative capacities, it can provide to himself good seat in a biological life: for example, to become the chief of any animal, including man. It is meaningful to add posthumous prospects with other version – it can make the way to the Center and to become on performance of certain central functions. It is not excluded, that atom career can be helped by the Center if he will find the given atom valuable for evolution.

These versions occur in various religions, but there they are enveloped in mythological, fantastic forms. In the offered approach this problems can be discussed in scientifically-philosophical language, meant a possibility of partial experimental check.

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