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# Life is in quantum processes

## Abstract

Before science, a new challenge is born, whose goal should be to learn more about the effects of Bose-Einstein condensates in human biological systems, its place in the creation of a soliton wave and its information function for the biological system, as well as the generation of an electromagnetic wave by soliton or its absorption, which produces a continuous center of conduction and distance transfer of information.[1,2]An important issue for science should also be the issue of bioplasma, which is particularly responsible for human psychosomatic states.

**Keywords:** bioelectronics processes, bioplasma, bose-einstein condensate, biocomputer

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## The operation of information in a biological system

The development of molecular biology as well as related fields related to nanotechnologies and biotechnologies force biology to see life in the dimension of the bioelectronics model, therefore, depending on the level of living matter organization of the studied objects, biology should gain an additional division into:- nanobiology - the field of research of biocomponents with nanometer scale;- wave biology - science dealing with the generated wave environment by biological processes and living organisms;- bioelectronics, as a science that considers life in a biological system integrated from the energy and information side; - quantum psychology - science dealing with the nature of psychic phenomena, in the light of quantum processes, explains the human behavior in no sphere - biosphere and cosmos here interactions. Information, next to mass and energy, is now considered the third basic structural element of reality. Each organized structure contains information. A characteristic feature of biological information is the transformed mass and associated energy. This is a different case than it is considered in physics. For physicists, energy is an information carrier, for biologists, information transport is carried out on a mass and energy carrier. Biological information combines corpuscular features of mass transport and electromagnetic and acoustic wave characteristics.[3]

## Quantum psychology as new knowledge for psychology

In this new bioelectronics approach, quantum psychology begins to appear showing human cognition in the aspect of quantum processes. In this psychology it is postulated to present the man in a quantum way together with an electronic personality. In the bioelectronics model of life, the biological system is understood as an integrated system with piezoelectric, pyroelectric and protein semiconductor elements, DNA, RNA and melanin nucleic acids. In this integrated system, control is carried out through a network of electronic, photon, phonon, spin, soliton and bioplasma information channels. In bioplasma terms, each of these channels can be an information carrier in itself, or can function as a team, as in Bose-Einstein condensate. Thanks to these properties, the integrated biological system can cooperate with electronic systems similar to robots. This means that the biological system is made of bioelectronics material and some biological structures are treated as natural molecular electronic devices - e.g. DNA, RNA, proteins and pigments, but also cell microtubules, cytoskeleton and neurons are considered as biological microprocessors,[4] and enzymes, as natural transistors or nanocomputers.[5]

Quantum psychology aims to harmonize the relationship between man and the world of technology and science, so that his adaptation process is adapted to his development, so that he does not lose human values based on tradition and cultural heritage. That at this enormous pace of technology development - various types of nanotechnology and biotechnology - would not be lost along with its sense of meaning in life. The rapid development of molecular electronics and biotechnology will lead to the fact that our lives will soon change radically. Man will be forced to adapt to the biological requirements of computers and many electronic devices known as readers recording information in the brain. Scholars of the school program will have a new teaching style, where devices supporting the memory of the material will play a dominant role. In the new teaching system, the amount of information in the brain will double, and psychological development will take on a new dimension of reality, but not every psyche will easily accept this style of teaching, which will repeatedly lead to many dysfunctions in human personality.

## Nature of consciousness in terms of quantum processes

Quantum mechanics has taught physicists that our daily perception of the world has little to do with the laws of Nature. One of the first suggestions about the nature of quantum phenomena is interference. A beam of light directed at two narrow slits produces a specific image on the screen behind the slot, mutually reinforcing and muting the waves. This quantum reality has revealed its amazing feature: allocality. One physical object passes through two slits simultaneously. Not only the photon but also the electron can be a local in many places. This unusual behavior of the wave function, called decoherence, is not explained in quantum mechanics and is one of the biggest mysteries of modern physics, as well as a source of heated philosophical discussions. The second phenomenon still little known by science is bioplasma, which plays the role of a linear and non-linear medium, i.e. one where it is possible is the modulation of electromagnetic, spin, soliton waves, interference of electromagnetic waves, decay of one wave into two and more, etc. Bioplasma is the determinant of our consciousness, which determines the perception of time and space in man. Along with the degradation of bioplasma, there is a degradation of consciousness, which is noticeable in old age. Psychological studies show that we do not observe time itself, but only what happens in time, so consciousness plays a special role in understanding time and space. Einstein's theory placed relative, relativistic time on the border of the speed of light. In the mental world, however, time is located at the level of consciousness and is a subjective state.[6]

In Ingarden's opinion, consciousness works with the cosmos and is guided by the laws of quantum mechanics. According to her law, consciousness may be in a certain area of space, or may not be there, or its location is unmarked. This uncertainty is significantly different from existence and non-existence; it is self-organizing, without time and without a spatial dimension. In the study of the nature of consciousness, quantum logic should be a basic research tool.[7] Bell proposes that at the subatomic level, different components of the universe have a direct and immediate relationship independent of time and space. It can be concluded that this relationship can be used in the functioning of human consciousness that cooperates with the Cosmos. This means an important feature of quantum theory, i.e. its non-locality.[8]

The author is of the opinion that nonlocality is the main attribute of consciousness and its closer understanding is a challenge for science in the coming years. The concept of eternal consciousness means that our brain probably fulfills the function of receiver and transmitter, and not the "producer" of our consciousness. This nonlocal consciousness exists outside of time and space. Near Death Experience) and sensual sensations declared by an almost dead person or in the state of clinical death inform that this place from which people return after experiencing NDE is a place where everything is connected - present, past and future. During the NDE, patients with cardiac arrest had access to their own memories and thoughts, but also to other people's experiences, to wider awareness. The brain can be considered to be an interface. It's like a radio or TV - when you turn off the receiver, the broadcast or TV program is still going on, although you no longer hear and see them. It's the same with consciousness. Eternal consciousness means that our consciousness knows no beginning or end, that there is a continuation of consciousness, and that consciousness is independent of our physical body. At a higher level, eternal consciousness is connected with everything and everyone, just like the past, present and future.[9] One can safely venture to say that there is one form of time for all phenomena of the universe. Like a sailor in his boat, he remains motionless; going far into the waves of the sea or ocean and around him various physical phenomena are created. Yes, we are stuck in one fixed point of a certain form of time and move among phenomena at a certain pace, in one direction and this advancement tells us that facts and events are approaching us and passing us by. We choose them, they often penetrate our own course of life, we see and evaluate them giving them the past tense. It also happens that they tell us when they will come and what life event awaits us. In Freud and Jung they are discussed in dreams and archetypes, and in some clairvoyants it is a real vision of a given reality with a full description of the facts. Looking at this reality, it should be said that consciousness is not the power to establish representations, meanings or senses, it only makes them public to the subject.[10]

Consciousness is not cognitive, it does not refer to anything, it does bioplasma, it only shows the openness of the phenomenon, process, act, own behavior, feelings, motives of conduct, own situation in the world and community. Consciousness is a reflection of many living processes occurring in the biosphere and the cosmosphere that also apply to astral life. Adamski claims that consciousness is a state of dynamic quantum-cybernetic-information processes occurring in the brain, which is in synergic cooperation with biocomputer simulation and light bioplasma, integrated by the emission of coherent light, modulated by a spin wave. The author distinguishes somatic and light bioplasma. Somatic bioplasma is associated with Sedlak's bioplasma, endowed with purely physical properties, which is widely discussed in.[11,12] The bioplasma of light has a specific wave structure, which is an information carrier and its processing in various forms, it has a significant role for organisms. The biplasma of light is composed of solitons, photons, magnons and gravitons. It actively participates in morphogenetic processes, controls genetic codes, i.e. chemical matrices.It is responsible for the integration of biosystems and the exchange of information between the biosphere and the space. It has intelligence, cultural patterns, is a source of love, is associated with collective memory, which is not available in somatic bioplasma. Hypothetical bioplasma and solitons as carriers of concepts, content and symbols allow us to see the world not only by perception but also beyond the senses - through metaphorical awareness and the structure of thought ideas. Life strives not only for chemical electrons, but also for electrons flowing from semi-conductive structures, as well as photons, phonons, electric, electromagnetic, gravitational, soliton and spin fields. Life not only flared with light but spoke with quantum molecular speech. The electronic interpretation of the living system turns out to be extremely inspiring, it allows to take into account the fact that the organs receiving information from the environment are not only sensory receptors, perceptive and motor systems, but also the entire biological mass of the body showing electronic properties in which biocomputers needed to simulate information and its use for the functioning of mental processes and for adaptation to the environment in which a given individual lives.[13] Light condenses life, which is why human life is not only a matter of biology, biochemistry, but also a bioelectronics, cybernetic and information construction. Human psychological life depends on coherence and decoherence, between solitons and laser light produced by the human biological system.

## Bioelectronics as the future of science

These molecular electronic devices can process, extract, accumulate, but also use information to organize the system or keep it organized. Thus, biological and psychological life should be considered not only in the material and energy aspect, but also in the information and quantum aspect. Mental effects are to depend on the information transmitted, not on the amount of energy. The application of information theory shows that information interactions play an important role in mental processes, followed by energy processes. The biochemical model explains the intricate mechanisms of mental life. He still can't explain the transition from inanimate matter to living matter. Where is the threshold and what is its essence, what role do biochemical processes play in the coherence of soma with consciousness and its impact on soma and vice versa ?. A similar problem is with other mental processes, their nature does not fit into the biochemical model of life and is inexplicable on the basis of biochemical interactions, but it is much easier to describe it in the light of quantum processes - including wave physics.[14]

In psychology, a holographic interpretation of memory is adopted. Biochemistry does not give grounds for a full explanation of this phenomenon, because biochemical processes in most cases are not able to emit coherent (laser) light, which is needed for holography. This role is taken over by quantum processes resulting from the bioelectronic properties of the biological system. Cell death, regeneration and wound healing, etc. cannot be understood on the basis of chemical reactions alone, without field effects. The occurrence of neuromelanin in some parts of the brain that have no biological sense in chemical criteria, but are of great importance in the

sense of bioelectronic processes that are responsible for human mental functions is also puzzling.[15–16] Quantum mechanics can contribute to the development of psychological knowledge by creating new models explaining the mechanism of perception as well as the nature of mental functions. This knowledge will facilitate the connection of electronic information systems in robots with the human biological system. This system in the form of mutual coupling can contribute to the acquisition of high intelligence in humans, better social competences, a universal management system, extensive language learning opportunities, etc.

To sum up, it should be emphasized that the human biological system is the holder of electronic material that is necessary for its functioning. The biochemical model of life is mainly based on biochemical processes occurring in the biological system. It does not take into account, apart from the role of electrons, the role of photons, phonons, solitons and bioplasm. The biochemical model of life has already made some electrochemical concession in favor of ion transport. However, there is a need for another concession in favor of liquid crystals to explain the electrical and magnetic properties of biological mass and a concession for semi conductivity, piezoelectricity, pyroelectricity as well as ferroelectricity and superconductivity. The share of energy and information converters in living cells is very significant, therefore in the context of this process life can be expressed differently and maybe adequate than before. Mental life is a form of the existence of information not only electromagnetic, but also acoustic, spin, soliton and bioplasma. This means that the human biological system, apart from the biochemical route, uses information transmission through energy-information converters in living cells.[12] In Einstein's theory, the speed of light is the maximum allowable speed that we encounter in nature, it is meant that life processes can only take place in the dimension that light dictates. Bohm's theory states that the energy of morphogenetic fields, both in motion and at rest, is equal to zero; hence there is no division of space-time into time and space. The energy pulse tensor as a four-dimensional vector assuming zero value is in all areas of space. Hence, the speed of signal transmission using these fields may vary from zero to infinity depending on the physical phenomenon causing these fields. This means that life includes the area of quantum processes that occur at the speed of light, but also those that go beyond the speed of light.[17–30]

## Conflicts of interest

Authors declare that there are no conflicts of interest.

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