

## Modifying Phase Structures by Solitons and Bioplasma in Biological Systems

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**Received:** December 30, 2019; **Published:** January 30, 2020

### Abstract

Solitons densely fill the space of the Universe and bring signals, meanings, conceptual content to the human psychosphere from space. This is because the DNA of the genetic material emits laser light. Laser radiation activates ion pumps on cell membranes and helical bioplasmic antennas that pull solitons from space into the cell, at the same time into the bioplasma of the biological system. Solitons are a hypothetical aspect of the function of the wave bioplasma, globally dispersed in space, and locally focused on Earth [1].

**Keywords:** *Phase Structures; Solitons; Bioplasma; Biological Systems*

### Phase transformation as a state of structural spikes and functional processes in the human biological system

From a biological point of view, man is an open system and cannot be considered in isolation from its surroundings, because it forms a whole with its surroundings. There is a constant exchange of information, energy and matter between man and his surroundings. Man can be treated not only as a single system, but also as a system composed of a whole series of subsystems between which there are many feedback loops. The whole world is one, all processes occurring in it are interrelated and interact with each other, focusing in themselves all the forces and influences coming from space that are so strong that they cannot be ignored.

It is now assumed that phase changes are the basic parameter of nature. Phase change is the transition of one phase of a system in thermodynamic equilibrium to another phase. During the phase transition, the substance adopts a new type of structure or acquires new features that are not present in the new phase. The phase change is associated with a step change in one or several physical quantities, and often even with a significant change in the physical properties of the system, such as change in physical state, loss of electrical resistance, the appearance of spontaneous magnetization and many other phenomena. Such significant changes in the macroscopic properties of the system are possible due to the fact that the phase transition is determined by complex phenomena in which all the components that make up the system participate, i.e. atoms, ions, elementary particles, particles, fields, waves, bioplasma, etc. For this reason, theoretical considerations related to phase transitions, one should take into account the interactions between all components of the system that affect the formation of a particular phase. Their common denominator and common management system should be examined. The author concludes that in these processes Bose-Einstein bioplasma and condensate play a significant role. This new style of view of the biological system opens new horizons for research [1,2].

### Bioplasma as a factor integrating human psychophysical structure

The works of Adam Adamski [3] show that Bose-Einstein bioplasma and condensate have a significant effect on phase transitions. In Bose-Einstein condensate, quantum processes show a high order and a high degree of unity. The key feature of the Bose-Einstein condensate is that the particles that make up the ordered system not only behave as a whole, but care about this order and there is no interference between the individual particles. The particles do not lose their individuality entirely. The condensate is described by a single wave function. This means that the entire facility has one solid phase. The disappearance of condensate makes the phase of a specific structure change, which changes its properties and phase state [4].

The Bose-Einstein (BE) condensate also decides about the time-space change between the micro and macro elements of the cosmos. The products of BE condensation are solitons and excitons [5,6].

From a physical point of view, solitons are impulsive non-linear fields and have both wave and particle properties ([7], p. 134).

Their behavior during a collision depends on the phase difference between them. When they have the same phase, the impulses penetrate and then return to their initial propagation velocities. The collision causes a phase shift and displacement that increases the initial distance between solitons. When the soliton phases are shifted relative to each other, the solitons repel each other. If there is no phase difference between them then these solitons attract. It has been noted that soliton can generate or absorb an electromagnetic wave, which results in the creation of a continuous medium for conducting and transferring information [8-10].

Brizik has a similar thesis, she is of the opinion that not only the external electromagnetic field affects the dynamics of the soliton, but solitons have the ability to emit electromagnetic fields at a certain frequency, which leads to the consistency of solitons. The total intensity of such field coherence is proportional to the square of the number of solitons. Such a field can be strong enough and can be one of the tools for information exchange and self-regulation in the field of system biology [11]. Looking at the organism from the side of bioelectronics, it should be stated that the essence of the biological system is piezoelectricity, pyroelectricity and semiconductivity [12,13].

The biological system with these properties is sensitive to all kinds of field information - magnetic, electrical, thermal, mechanical, gravitational, acoustic, soliton and spin fields that affect the psychosomatic structure of a human and at the same time determine his development, integration, with the environment and the destabilization of his personality.

Bioplasma is a state of interconnected particles and fields in an organic semiconductor, characterized by common energy for wave and mass. Bioplasma is the material center of life and the foundation of consciousness. Bioplasma is a state of matter that is one in diversity and carries the mark of an information integrating factor. Bioplasma is one whole in the body and is a bioelectronic factor determining the nature of consciousness. In old age, pathological changes in bioplasma in biostructures occur and along with these changes, mental functions are weakened [6].

Bioplasma does not last, it forms and disappears. The nature of bioplasma includes not only electrical, magnetic, soliton and spin symmetry, but also symmetry of duration and annihilation as well as degradation and generation. Induction of bioplasma causes the appearance of coherent structures that due to their coherence, openness and non-linearity are able to form a specific phase [14-16].

The maintenance of specific phase states in the human biological system has an impact on time assessment, which determines survival in the present, past and future tenses, and on the integrity of the psyche. There is no doubt in it that yesterday is the past and tomorrow the future, that the sky is above the head and the earth is below. In schizophrenia, this entire time-space network and importance hierarchy are broken up. Sick people often have the impression that time has stopped and there is no future or past for them, time has turned into stagnant water. They do not feel the flow of time, are not bored or in a hurry, they cannot determine whether time is running

fast or long. Sometimes, especially in the acute phases of the disease, there is a kind of temporary „storm”, the past blends violently with the future and the present. The patient experiences what was years ago, as if it were happening today, his dreams of the future become present reality, his whole past, present and future life focuses as if at one point. Different elements in the time coordinate of the patient's life are mixed together and occur together at one time point. A similar phenomenon is observed in a dream in which sometimes distant fragments of the past are mixed with loved ones and with dreams of the future, and everything is lived as the present ([17], p. 55).

For a normal person, the law of selection applies to the creation of memory and imaginative records (as far as the future is concerned). These entries are sort of ordered in order of importance. The unimportant is rejected from consciousness and lies deep in oblivion. It can sometimes reveal itself in the content of dreams. It does not fit into the overall composition of life history and projection into the future, it is removed from consciousness. Thanks to this, the individual's time continuity is maintained, his life does not break into loose, unrelated fragments ([18], p. 215)

The loss of functionality of the Bose-Einstein bioplasma and condensate is associated with a loss of continuity of self-awareness, resulting in death of the body. With the death of the body, there is a necrotic emission of light to the Galactic Quantum Memory located in Space, as Janusz Sławiński says in his publications, 1990, p. 22.

In this new bioelectronic paradigm, human cognition in the aspect of quantum processes is beginning to emerge. In bioelectronic terms, an integrated circuit can process, store and manage information. The control of the human biological system is made through a network of information channels: electron, ion, photon, phonon, soliton, free radical and also bioplasma - each of these channels can be in itself an information carrier for the biological system, or can function as a team in the bioplasma system [19,20].

Spin and soliton waves create a different picture than the electromagnetic waves received by the eye receptor. Science to date only recognizes the effect of the electromagnetic wave on the sense of sight.

In current biology and psychology, there is no room for solitons and spin functions that quantum physics deals with. We can say that we are dealing with a second center that creates the structure of the world image and is responsible for the development of human personality [21-26].

### Summary

The author in his considerations shows that man is not only a purely biological construct, but also contains a resource of biochemical, bioelectronic, IT and cybernetic processes. They are responsible for shaping human mental processes. The biological system plays the role of an electronic device and functions on biological electronic material. Thanks to these properties, it can transfer information inside and outside the system electronically. Bioplasma plays a significant role for the body, because it plays the role of an integrating factor and is the physical foundation of life, its dynamics and consciousness. Bioplasma is a conducting medium and carrier of information: magnetic, electrical, chemical, mechanical, optical, acoustic, soliton and gravitational, which information affects the development of the entire human personality.

The theory of bioplasma is widely discussed today, it requires further research to confirm it. It is currently a hypothetical model for explaining the nature of mental processes, but more extensive than the biochemical model.

It was recognized that bioelectronic processes occurring in the human biological system play an important role in shaping sensory perception and human mental functions. The discovery of the piezoelectric, pyroelectric effect, as well as semiconductivity in biological tissues shed new light on the human biological system. This created the opportunity to search for new interpretative routes for the functioning of mental processes. This means that the biochemical process conditioning ionic conductivity is not the only process in the biological system, which is why the biochemical model of life is insufficient to describe the nature of mental processes.

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, spin and bioplasma.

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.

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**Volume 12 Issue 2 February 2020**

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