Annals of Clinical and Medical Case Reports[R] ISSN 2639-8109 | Volume 17

Review Article Open Access

Now and the Pulsations of The Living Cosmos

Berov G. Lyubomir*

Independent Innovative Ideas Researcher, Smolyan 4700, Bulgaria

***Corresponding author:**

Berov G. Lyubomir,
Independent Innovative Ideas Researcher,
Smolyan 4700, Bulgaria

Received: 19 Oct 2026
Accepted: 10 Nov 2026
Published: 13 Nov 2026
J Short Name: ACMCR

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Citation:

Berov G. Lyubomir, Now and the Pulsations of The Living Cosmos. Ann Clin Med Case Rep® 2026; V17(1): 1-4

Keywords:

Future; Present; Past; Time Crystals; Energy Field Time

1. Abstract

And now more specifically. First, let's clarify what "future", "present" and "past" are. Obviously, we are talking about some kind of pulsation. To clarify this, we need to see what pulsations are in the surrounding nature. Pulsations in the surrounding world occur in different forms in all known matters - from the microcosm of quantum physics to the macrocosm of astronomy. In general, they represent periodic changes in the state, structure or energy of a given matter.

Dear reader, in my article "Time. Philosophy of Science" I presented the hypothesis of time, the basis of which is Time as a powerful energy field created by the intellectual field of dark energy. Here I will try to describe some of the characteristics of the energy field of this Time, which, according to this hypothesis of mine, could explain its interaction with both the energy field of the All-Creative Intelligence and the material world. Dear reader, I must pay attention to this All-Creative Intelligence because it is the founder of our material world. The basis of this world, in my opinion, are the pulsations of the living Cosmos. But let's look at things in more detail. Let's first recall some elements of my article "Time. Philosophy of Science": We can trace the search for an answer to the question "What is time?" since the era of St. Augustine. He believed that Time exists only in our minds and depends only on how we interpret it. The ancient philosopher explained how people can say how long something lasts or how short it is, but there is no real way to objectively measure the extension of Time. So, St. Augustine came to the logical conclusion that the concept of Time exists exclusively in our minds. Well, we all understand this to some extent, right?.

A well-thought-out answer to the question of the nature of Time has been offered by all the great philosophers, physicists and psychologists in human history, from ancient times to the present day. And there has never been an unambiguous answer. Time is both subjective and objective. There may be time, but there may not be. The concept, according to which time is a physical quantity and in which all material changes occur, is often replaced by a more convenient one, where time is simply the order of changes in the material world. Let's look at things in more detail. According to Sir Isaac Newton, time is absolute, independent and moves at a constant speed. However, after Sir Newton, the interpretation of Time has been constantly changing. The most significant changes occurred with the development of Einstein's General Theory of Relativity (GTR). In general, Einstein's interpretation of time is: "Time has no independent existence except in the order of events by which we measure it. Time is a sequence of events - this is my conclusion." The opinion about time as a sequence of events is shared by most scientists in the modern world. But can time be both a physical quantity and the order in which changes occur in the material world? According to my hypothesis, presented here, this is quite possible.

And now more specifically. First, let's clarify what "future", "present" and "past" are. Obviously, we are talking about some kind of pulsation. To clarify this, we need to see what pulsations are in the surrounding nature. Pulsations in the surrounding world occur in different forms in all known matters - from the microcosm of quantum physics to the macrocosm of astronomy. In general, they represent periodic changes in the state, structure or energy of a given matter. The main types of pulsations, divided by type of matter, are:

-in biologically living matter

-in liquid and gaseous matter

-in solid matter

-at the level of quantum and electromagnetic matter, with quantum fluctuations being temporary, pulsating changes in the amount of energy at a given point in space (in a vacuum), which give rise to virtual particles

-plasma pulsations, which are fluctuations in the density of electrons in ionized gas (plasma), known as plasma waves (for example, in the Earth's ionosphere or in the nuclei of stars).

And cosmic pulsations, which occur mainly in space objects with enormous mass and gravity, are of the following types:

-Pulsations of variable stars (e.g. Cepheids): Periodic expansion and contraction of the star, which leads to a change in its brightness and temperature.

-Pulsars (Neutron stars): Highly magnetized rotating neutron stars that emit beams of electromagnetic radiation, detected on Earth as extremely precise and fast pulsations.

-Gravitational waves: Pulsations in the very fabric of space-time, caused by the collision of massive objects such as black holes.

Dear reader, here we have come to one of the most important scientific discoveries of recent years. And that is that the existence of a new type of matter composed of time crystals has been proven by measuring instruments. It repeats itself not only in space, but also in time. The crystals of which it is composed have a constant frequency of vibration, but without the expenditure of energy. The first to openly talk about them was the 2012 Nobel laureate in theoretical physics - Frank Wilczek. According to him, time crystals are structures that move even during their lowest energy state, known as the ground state. Ordinary crystals have an atomic structure that repeats itself in space, such as the carbon lattice of diamond. However, they are immobile because they are material equilibrium, which is in the ground state. Time crystals have a structure that repeats not only in space, but also in time, which continues to move and vibrate even in the ground state. This makes time crystals non-equilibrium matter. They are simply unable to be stationary at rest. It is one thing to have a theoretical justification for the existence of such crystals, it is quite another to create them. This is exactly the big breakthrough in the latest scientific research. Norman Yao and his team now have a detailed plan that describes how to accurately measure the properties of time crystals. They even predict the different phases around time crystals. This means that they have determined a new equivalent of the solid, liquid and gas phases of matter. This is an entirely new phase of matter. At the University of Maryland in 2016, time crystals were created from 10 yttrium ions arranged in the form of a ring on a substrate in a cooled trap. The key to turning the ions into a time crystal was to keep them in equilibrium. To do this, the scientists treated them with two lasers in sequence. One laser created a magnetic field, and the other laser partially perturbed the atomic spins. To form a time crystal, however, the time symmetry had to be broken. Observing the spins of the ytterbium atoms, the scientists noticed something strange. The two lasers, which periodically nudged the ytterbium atoms, created an oscillation whose frequency was directly related to the frequency of the perturbation caused by the laser. Under the influence of different magnetic fields and laser pulses, the time crystals change their phases, just like an ice cube melts.

The Harvard team's time crystal is different. The researchers created it by taking advantage of certain defects in the crystal lattice of diamond. "The study of time crystals confirms the fact that the symmetry in crystal lattices can be broken.

This can happen not only in crystals, but in practically all natural kingdoms and opens up many new and unexplored paths for development," says Phil Richam of Indiana University, who was part of the scientific project. The fact that we now have the first example of non-equilibrium matter can lead to a breakthrough in our understanding of the world around us. This will also be the beginning of new technologies such as in the field of quantum computers. That is why I consider it right to precisely clarify the concepts of "future", "present" and "past".

I understand it this way: "Future" for me is the goals of the All-Creative Intelligence, expressed more specifically in its intentions. These goals are not yet material objects. By the way, we humans apply the same process when we set goals and intentions before we create something new – at first these goals and intentions are only in our minds. However, there is a significant difference when it comes to the material objects that our goals and intentions ultimately create, compared to the goals and intentions of the All-Creative Intelligence. And the difference is that what we humans create is simply a reshaping or recombination of already existing objects, while the All-Creative Intelligence creates and constantly changes the material world itself. Also, another difference is the feedback loop, where the material world created by the All-Creative Intelligence somehow influences the intentions of the Intelligence itself (I think this probably has to do with maintaining the stability of our material world).

The next stop on our journey from the future to the past is the present. So how is the material world created and continues to be created? The present is the realization, at a certain moment in Time, of one of the many intentions of the All-Creative Intelligence. Here, "realization" specifically means the materialization or appearance of an object in the material world that did not exist before. Here is the essence of my hypothesis. Every material object, be it an atom, a planet, a star, etc., is a transformed part of a specific energy field of the All-Creative Intelligence. We call this specific energy field time. Every material object exists only for the duration of the moment "now". This moment is infinitely short or, if we use a concept from calculus, it is infinitely small in duration. Then, for the next infinitely small period of time, the material object is again transformed into the energy field Time. And then the process of transformation from energy to matter and back is repeated. This "pulsation" continues as long as the material object exists as such.

Let's summarize: time, in my opinion, is a kind of energy field, which is one of the specific forms of the energy field of the All-Creative Intelligence. It deals only with the creation and management of the material world. The age of any object is determined by the number of these pulsations of the energy field

Time, which the All-Creative Intelligence memorizes. And this applies to any object created by it. Only a limited number of the created min equilibrium, which is in the ground state. Time crystals have a structure that repeats not only in space, but also in time, which continues to move and vibrate even in the ground state. This makes time crystals non-equilibrium matter. They are simply unable to be stationary at rest. It is one thing to have a theoretical justification for the existence of such crystals, it is quite another to create them. This is exactly the big breakthrough in the latest scientific research.

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Dear reader, do not worry. Science has always started with hypotheses, no matter whether they are right or wrong. As for the All-Creative Intelligence and its variety of Time, we are all sure that Time exists, but not as an energy field.

And now to our last stop - the past. In my opinion, the past does not actually exist. The past of the material world exists only in the memory of the All-Creative Intelligence and partly in the memories of countless types of secondary intelligences. Man is

one of these secondary intelligences. We, humans, also measure the age of everything in all sorts of ways, counting various types of recurring events. These events can be cosmic cycles, the number of orbits of the Earth around the sun, the number of seconds measured by our clocks, as well as the most modern approach in recent times - the number of periods of radiation corresponding to the transition between two ultrafine levels of the ground state of the cesium 133 atom. These discoveries are past and history and, as I have already mentioned, they are stored in our memory and do not actually exist. In our human memory they are subjective and very inaccurate. I am convinced that the memory of the All-Creative Intelligence is not something like human memory. It is probably extremely accurate and infinite in its durability. Moreover, the events stored in its memory somehow influence the intentions of the Intellect, i.e. there is a feedback between the past and the future. Dear reader, so far we have considered only one of the vibrations listed earlier in this article - that of Time as an energy factor. What different matters will we reveal if we allocate funds and dwell on other types of vibrations?