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REVIEW ARTICLE

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NEW DIRECTIONS IN THE DEVELOPMENT OF TORSION TECHNOLOGIES

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ABSTRACT

Fundamental, applied and technological research in the field of torsion fields is at the beginning of the journey. Like any new direction in science and technology, it is vulnerable to criticism, since the number of emerging questions is much greater than the answers to them. In addition, as in past centuries, the difficulties of the formation of new ideas are generated by inertia and conservatism of thinking. There are a lot of examples of this at all times. Suffice it to recall Lavoisier's stubborn denial of the existence of meteorites, or the words of Pauli, who called the idea of spin in the works of Uhlenbeck and Gudsmith a "stupid idea", which, however, did not prevent him from formulating one of the fundamental principles of quantum mechanics, named after him, a little later. However, even the existing theoretical and experimental base of the paradigm of torsion fields, including those presented in already known publications, allows us to consider torsion fields as the same reality as electromagnetism and gravity, and also instills confidence in the great future of this direction of science. This is the beginning of the path to comprehending the nature of the real world. Perhaps this goal will never be achieved. But it may be that a theory will appear that will give us an understanding of what we call "reality".

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INTRODUCTION

Strange and probabilistic, physics at the smallest scales is driving innovation and research into the nature of reality. In this article, we explore the latest dizzying research into torsion field generation, including theoretical riddles such as entanglement, the subconscious of real particles, real-world applications, communications innovation, and more. From the point of view of modern physics, it cannot be argued that space is empty. The so-called virtual electron-positron pairs also exist in the volume of technical empty space, a photograph of which was taken by German physicists [1]. Real electron-positron pairs, material objects, cannot arise from anywhere. They can only be produced by energy, and if we produce it directly in a given volume, in which virtual pairs exist, for example, in the volume of the flask of an electron-beam device, then there will necessarily be some specific manifestation - the materialization of real electrons and positrons, which cannot be observed under normal conditions.

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Materialization occurs under the influence of the energy of the heated cathode [2] This particular area has been called the Physical Vacuum. Apart from the creation of electron-positron pairs, the physical vacuum manifests itself in a number of experimental phenomena. R. Openheimer wrote: "We do not understand the nature of matter, the laws that govern it, and the language in which it should be described." Many people can doubt about this approach, but to the sub-consciousness of real particles Nikola Tesla had already pointed out in his time. For nearly a century, the physical community has denied such a thought, let alone attempted to show it. Tesla was convinced that everything in the Universe, down to the electron (at that time there was not a conception about virtual particles) possessed the consciousness. The universe is a whole organism, which consists of many parts, but differing in the frequencies of vibrations. Each part is a parallel world. Having entered resonance with the frequency of another world, we open a window into this parallel world. Space is a single intelligent living organism. Tesla treated electricity as a living creature. He could talk to him and give him his orders. Each elementary particle - electron, positron, proton and other - is a complex organized entity. It is a living intelligent being, in its spiritual level, it's no easier than you and me, and it's not unusual to agree with them and get in touch with them.

I do not adhere to such views alone. There are a lot of people and theorists, and basically - practitioners who face such things and are reconsidering their worldview. " Today it is established that elementary particles can obey the mental effects and directions of a person, and this does not fit into the known physical laws, but is proved in a variety of experiments. Experiments were conducted in which the laser beam deflected the thought action, the water changed its properties at a distance of thousands of kilometers, the plane of polarization of the light rays changed, etc. The phenomenon was called "weak mental impact". People who are far away from the laboratory act mentally on how electrons behave when they pass through a diffraction grating, etc. All this is documented and completely beyond any theoretical description [3, 4]. Tesla wrote that the main purpose of his life was to point out phenomena and disseminate ideas, which can be the starting points for new research.

There is no person since Tesla's death to successfully build a real description of processes in a Physical Vacuum (PV) , taking into account the subconscious of elementary particles. Feynman says; "I think I can responsibly declare that no one understands quantum mechanics. If possible, stop asking yourself "How is this possible?" - R.S. Nakhamson agreed with the opinion of N. Tesla [5] that all matter, including "living", its elementary particles really have consciousness and it plays a decisive role in physical processes This assumption, which has a long tradition, since the time of Nikola Tesla, allows us to naturally explain the seeming "nonlocality" and other paradoxes of the quantum world. Elementary particles do have consciousness. We emphasize that the setting of such "information experiments" with virtual particles is different from everything that has been done so far in physics.

No one has given specific examples so far. We list some of them: the harmonization of the physical vacuum (PV) using a mechanical connection of conductive or non-conductive material regions with virtual electrons and virtual positrons, for example, "minus" and "plus" nodes of geopathogenic zones of the Earth, a similar result gives a connection of the poles of the magnet, and it is typical that in the daytime, the north magnetic pole has a right torsion field, and at night it has a left. Magnesium, unlike other proven metals, has a right torsion field during the day. If we put a magnesium plate on the end of a vertically standing tube of small diameter, which generates a left torsion field from the end in the afternoon, then the PV harmony mode is established in an enclosed space. At night, everything will be the other way around, but the state of harmonization of the Physical vacuum is maintained. Similar phenomena are observed in wildlife: a cactus generates a right torsion field during the day, and a left one at night, similar to a magnet. There are many such examples. I am sure that it is the consciousness of virtual particles that plays the main role in the operation of the devices for the harmonization of the physical vacuum described in [1]. Particle behavior is purposeful, particles exchange information during interaction. With respect to a number of experiments, it became possible to put aside the phenomenological description and approach interpretations at the level of the process. In particular, it has become possible to determine in general a new approach to the interpretation of the experiments already performed and which lead to understanding of consciousness of the elementary particles. An emerging area of research is consistent with the primacy of consciousness hypothesis in terms of convergence of evidence

from different fields of knowledge, encompassing laboratory research using evidence-based environments and technologies. Our model is based on notion that consciousness is primary essence. There is a continuum of consciousness comprising everything, including the consciousness of virtual particles, as Nikola Tesla postulated [1]. "The nature of consciousness, however, continues to challenge all of science and in particular how something as "not material" as the mind couples to "material objects." To continue to insist that science has nothing to say about philosophical understandings or vice versa, is to deny our common notion of what it is to be a human" Dr. Menas Kafatos, Professor, Physics, Chapman University. In other words, in quantum field theory, fluctuations are interpreted as the creation and annihilation of virtual particles (that is, particles that are continuously generated and immediately destroyed), or virtual quanta of a given field. In a vacuum, different pairs of particle-antiparticles are emerged and these pairs can be electrons, protons, neutrons, quarks and their antipodes etc. Virtual particles interact in the same manner as real ones. For example, a virtual photon is capable to generate a virtual electron-positron pair, similar to the production of a real photon of a real electron-positron pair. Electrons, for example, constantly emit and immediately absorb virtual photons. Details are given in [6].

Elementary particles, as mentioned earlier, have consciousness. Particle behavior is purposeful, particles exchange information during an interaction. They must have a correlated view of space and time. We can say that the civilization of particles goes a long way of its development. Two or more particles can share a common strategy while being entangled. Confused, they nevertheless always act in concert. How can you test the proposed hypothesis? There can be at least two possibilities here. The first is to determine, for example, in an apartment the left and right torsion nodes of the Earth's geopathic zones (GPZ). It is known that these sites contain virtual electrons and positrons. By connecting the left and right nodes of the GPZ with a wire or a simple rope, we establish the state of harmonization of the space in this room. This means that packets of ring waves from an electron and a positron are embedded in each other, and a true harmonization of such an electron-positron vacuum occurs, while there will be no effect of the GPZ on human health. The second possibility consists in influencing the particles of these GPZ nodes with information. If you place a photograph of it on any of the GPZs, then the state of harmonization will also be established in the room, i.e. there will be no impact of the GPZ on human health. We emphasize that the setting up of such "information" experiments with virtual particles differs from everything that has been done so far in physics. Something similar happened in the SETI program, in which experts developed "space" languages that could develop communication "from zero" to a high semantic level. Taking into account the fact that elementary particles have a consciousness, let us consider new generators of torsion fields and some features of their work.

Torsion field generators

Natural TP generators: Natural generators of torsion fields (PGTP) include areas of the earth's surface, on which they can be detected by one or another method of detecting torsion fields. Geopathogenic zones of the Earth belong to PGTP and their nature is associated with the interaction of the flow of elementary particles generated by the Sun and the Earth's

magnetic field. There are areas of the earth's surface in the form of elevations, on which there are simultaneously zones with a left field, a right field and zones with a torsion pendulum, in which the oscillatory process of fields is carried out, i.e. the left margin changes to the right one with a transition through 0, and the process continues. Similar vibrations exist in a 99.999% pure aluminum disk. In fact, it is a "natural torsion pendulum", in a horizontal plane during the daytime, and in an upright position – over the night. On the surface of this pure aluminum, clusters can be clearly distinguished, differing in their surface color. Therefore, aluminum clusters should be considered, as well as individual atoms, in a single and inseparable equilibrium system of interactions of their internal and external fields with the surrounding fields of Physical Vacuum. Apparently, aluminum clusters as a whole can be in a state of rest and rotational motion, as well as in a state of polarization. Such clusters of matter also have new properties in comparison with the microcosm, etc. Aluminum clusters exhibit different properties and in relation to magnetism or the polarization of the near-Earth space. For example, the vertical arrangement of the mentioned aluminum disk leads to the termination of the generation of torsion fields, i.e. the cluster then goes into a state of rest. The horizontal positioning of the mentioned aluminum disk leads to the generation of torsion fields. A metal pipe located horizontally has a left torsion field at its ends, and there is a right torsion field in the middle.

Obviously, this behavior of the aluminum disk and aluminum tube is associated with the polarization of the near-Earth space. The Lorentz force will distribute the charges of the Earth, – under its effect, the positive charges are concentrated on the illuminated side of the Earth, and negative charges will be concentrated on the dark side of the Earth. In addition, it can be assumed that under the action of this force the electric charges can leave the Earth [7]. The electrical polarization of the Earth affects the processes that occur on earth's surface. This is very easy to check. If an aluminum disk standing vertically in the daytime and not generating torsion fields is connected to one of the terminals, for example, a battery, then the generation of torsion fields resumes. It means that it is a system demonstrating spatial-temporal self-organization – the transfer from the state of the left TF generation to the state of the right TF generation. It is important to note that torsion fields on the opposite planes of the horizontally oriented disk, are opposite, i.e., if there is the right field on one of the disk surface, then there will be the left field on the opposite side [10]. It is obvious that such interactions are associated with a change in the orientation of the disk and pipe in the Earth's magnetic field, and this change is recognized by virtual particles [4]. The nature of these phenomena has not yet been sufficiently studied.

Electromagnetic Torsion field generators: As noted earlier, the electromagnetic field generates a torsion field. It immediately follows from this that the bulk of the equipment used in electrical and radio technologies, as well as in radio electronics, is suitable for use as torsion generators. High-voltage installations that create intense constant fields, such as radio equipment with large coils, traveling wave lamps, and magnetrons, must be especially effective. However, it is necessary to distinguish whether the generated torsion field is constant or variable, as well as the polarity of the torsion radiation for each case. In some cases, Tesla coils prove to be a more suitable source of torsion field.

Let us recall that Tesla himself also claimed that his coils emit something other than electrical energy. This short list serves as an illustration of which torsion generators are and how widely they are currently in use. They are characterized by stepless torsion frequency control, different modulation levels, generation of left and right-handed fields, continuous power output control, etc. A variety of rotating objects are used in generators of various types - electron beams, plasma, massless fields, etc.

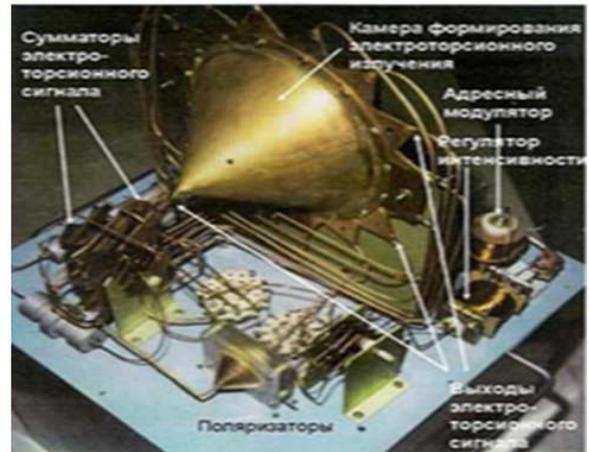


Photo 1. Internal contents of some torsion generators

Photo 1 shows one of the many generators of torsion fields developed by A. Akimov. The effect of generators of torsion fields on various substances and processes is found. Most of the torsion generators were produced at Vent, and then produced by other organizations. Such a generator allowed the possibility of external electronic control to smoothly regulate the intensity of the output signal, to tune the carrier frequency, to work with any type of modulation. It was technically implemented in the following way. The standard radio equipment generates a carrier frequency with the required modulation. This signal was fed to a torsion generator (photo 1), in which the radio signal was converted into a torsion signal. The next experiment was carried out in 1986 (Fig. 2). The torsion beam transmitter was located on the ground floor of the building, and the torsion beam receiver was located at a distance of 22 km. Thus, the torsion signal from the transmitter to the receiver could only propagate in a straight line through the terrain and reinforced concrete walls of all buildings in the signal path. Torsion transmitter designed by A.A. Deev was used at the transmitting end of the torsion communication channel. A bioelectronic system was used as a torsion receiver. This work was based on the property of tissue cells to change the conductivity of membranes under the action of a torsion field. This property was implicitly established by V.A. Sokolova in 1982 [11]. Possibility of long-distance effects of the torsion field on tissue conductivity following the works of V.A. Sokolova was confirmed at the beginning of 1986 in works carried out under the leadership of I.V. Meshcheryakov [12].

Natural electromagnetic-free torsion field generators: There are generators of static torsion fields based on the use of geometric and topological forms, they form a special class of generators. These include pyramids, cones, truncated cones, cylinders. It turned out that there are materials in which oscillations of spin polarization arise spontaneously and are constantly maintained. It has been experimentally established [4] that an aluminum disk with a high degree of purification

(99.999%) generates an alternating torsion field (TP) with a period of approximately 40 seconds, and the period of variable TP depends on the time of day. That is, it is a system that demonstrates spatio-temporal self-organization - a transition from the state of generation of the left TP to the state of generation of the right TP. It is important to note that torsion fields on the opposite planes of the horizontally oriented disk, are opposite, ie, if there is the right field on one of the disk surface, then there will be the left field on the opposite side [6]. It means that it is a system demonstrating spatial-temporal self-organization - the transfer from the state of the left TF generation to the state of the right TF generation.

And the fact of stopping TP generation by a disk seems absolutely fantastic if the disk itself is combined with its photograph. It is clear that this interaction is also torsional, associated with an entangled state. Let's consider this phenomenon in more detail. The advantage of the electron spin is that it reacts very quickly to small magnetic fields. that is, the Earth's magnetic field also affects the disc generation mode. It is known that the Earth is a natural permanent magnet around which there is a magnetic field. The characteristic of the Earth's magnetic field, like any magnetic field, is its intensity F or its components. To decompose the vector F into components, a rectangular coordinate system is usually taken, in which the x-axis is oriented in the direction of the geographic meridian, y - in the parallel direction, while the x-axis is considered positive to the north, and the y-axis to the east. The z-axis in this case will be directed from top to bottom towards the center of the Earth. It is the interaction of the electron spins of the aluminum disk with the component of the Earth's magnetic field directed to the center of the Earth and generating the torsion field that presumably leads to the termination of the generation of torsion fields by the disk. The physical nature of this phenomenon is subject to careful study. However, it is clear that all energetic interactions take place in the etheric medium (Physical Vacuum) and this medium is responsible for all kinds of interactions. [7] Peculiar features of torsion field's properties define a significant efficiency of torsion technologies and simplicity of physical and technical methods, which implement these technologies. I will only outline their basic properties.

Electromagnetic-free torsion field generators: Let's consider two simplest generators of torsion fields. Such generators will be used in an increasing number of applications, such as in the development of torsion communication, but the key theoretical questions about how it works remain unanswered. An approach based on the physics of consciousness of virtual particles can help bridge this gap. An L-C circuit (Fig. 2), also called a resonant circuit, or tuned circuit, is an electric circuit consisting of an inductor, represented by the letter L, and a capacitor, represented by the letter C, connected together. Oscillatory processes occurring in such a circuit are well studied if the capacity C was initially charged. However, it was found that in such a chain harmonic oscillations of virtual particles spontaneously arise. These fluctuations can be detected using the VEGA-12 device manufactured by Spinor International, or by dowsing. It means that the L-C system also demonstrates spatial - temporal self-organization - the transition from the state of generation of the left TF to the state of generation of the right TF. The surprise is that harmonic oscillations are amplified in amplitude if the coil leads are short-circuited. There are some features in the work of such a coil.

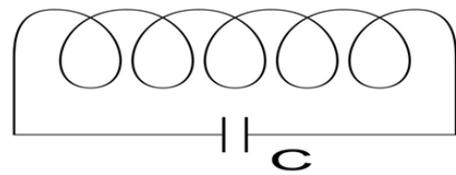


Fig.2

If the spool stand upright, the oscillations disappear. But if a standing vertically to bring the magnet coil, the oscillations are renewed, while the horizontal arrangement of the coils in the presence of vibrations cease magnet near it. The explanation for these phenomena is given above when describing the operation of an aluminum disc. The scheme provided in Figure 3, also generates a torsion fields. In Fig. 3 numeral 1 denotes a conventional mirrors, numeral 2 denote dielectric cylinders, connecting and the non-mirror surface of the mirror adjacent mirrors, numeral 3 denotes capacity C. The torsion generator using mirrors generates torsion field being in vertical position while the L-C oscillator generates being in horizontal position in the daytime . A characteristic feature of these generators is that they quickly enter the synchronous mode of operation.

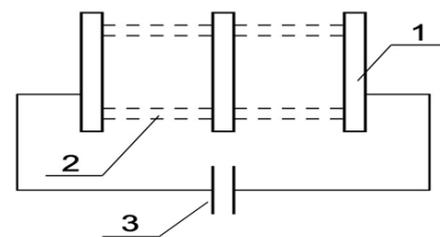


Fig. 3.

To put it simply, the task was to check the simultaneous operation of several generators of torsion fields with different frequencies. It turned out that the generators are phase-locked, i.e. the spins of all generators are transformed into an entangled state and the dominant frequency is the lowest frequency of one of the generators. Statistical observations have shown that in this case the spins are not free, but correlated with each other. Such experiments are carried out almost continuously, more and more accurate and perfect - and the result is the same. For example, if several such generators work synchronously in the daytime and the L-C oscillator is placed vertically, that is, in such a way that the generation stops, then other generators also stop generating torsion fields. These and other phenomena require careful study to understand the nature of the interaction of torsion fields in nature. This happens, in our opinion, because elementary particles have consciousness. Particle behavior is purposeful, particles exchange information during interaction. They have correlated idea of space and time and is easy to enter the synchronous generating mode. Our results motivate the widespread use of torsion field generation methods in future research and development of torsion communication. During the research, new phenomena were discovered. It turned out that if a permanent magnet stays in an alternating torsion field for a long time - in the field of a torsion pendulum - then its torsion fields disappear, although the magnet itself attracts iron objects. However, if a normal magnet with its corresponding torsion fields is placed in a torsion screen (it can be a material with a pronounced orthogonal structure or ordinary foam rubber) and then this magnet is placed on another magnet that

has no torsion fields, then this magnet will develop torsion fields. If we take into account that the aforementioned orthogonal structures are a screen for torsion fields and freely transmit magnetic fields, then the thought arises that magnetic fields passing through a torsion screen have some information component that induces torsion fields in a magnet in which these fields were absent. This phenomenon could be called magnetic - torsion induction. But if you separate the magnet in the screen from another magnet, then the torsion fields in the latter disappear. Subsequent experiments made it possible to establish that it is possible to restore the torsion field of a magnet that has lost it as a result of the action of alternating torsion fields. This method is similar to the method of recording right-hand torsion fields on the Spinor device. It should be emphasized that we are at the beginning of a long period of research into the features of torsion fields. It seems we are in search of an understanding of the laws of torsion interactions. Undoubtedly, the unity of the world is informational in nature. The formulated concepts should be considered only as a formulation of a problem that requires in-depth study, especially if we take into account the well-known limitations of models for describing torsion interactions. The consciousness of elementary particles plays a decisive role in physical processes. This tradition, which has a long tradition, allows us to naturally explain the apparent non locality and other paradoxes of the quantum world. We should mention that the Ukraine physicists noticed more than a decade ago that spin perturbations in spin medium are propagating in such a way that they cannot be screened, which in those times had no relation to the torsion fields. It means that there is a possibility of underwater and underground telecommunications, as well as communications through any other natural medium.

A torsion signal receiver developed in Ukraine: As stated earlier, a bioelectronic system was used as the first torsion receiver. The operation of the receiver was based on the property of tissue cells to change the conductivity of membranes under the action of a torsion field. It turned out that the conductivity of the resistances also changes under the action of the torsion field. The left torsion field decreases the conductivity, while the right field increases the conductivity. This property of resistors was used in the Winston bridge, as a result of which we received a clear electrical response to the effects of torsion fields of different polarity. The torsion field receiver was developed by Spinor International employees under the leadership of Aleksey Andreev. Figure 4 shows a photo of the device.



Fig.4.

It has been experimentally proven that it is difficult to transfer information outside the near-field zone of a torsion transmitter. However, if the spin attribute of a certain region D of Physical Vacuum is introduced into the structure of the emitted torsion signal, then the emitted torsion signal outside the near-field zone will self-focus in its local region D*. The nonlocal nature of the interaction of individual regions D and D* of the PV corresponds to the nonlocal nature of the torsion signal transmission from one point in space to another. For torsion communication systems, the role of the spin feature at transmission and reception is played by special spin (torsion) matrices. A very important circumstance is a consequence of the above. The torsion signal is explicitly present in a small vicinity of the torsion transmitter D and in the local area D* of the torsion receiver, and between them, regardless of the distance, the torsion signal is unobservable - it seems to be absent. This determines the ideal confidentiality of information transmission. The presence of an addressable torsion matrix makes it possible to implement a multicast mode of operation of a torsion communication network. Knowing the main advantages of torsion communication, it is easy to predict the appearance of torsion information transmission systems. We are deeply convinced that government communication systems will be replaced by torsion communication systems in the near future.

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