

## ***Unknown phenomena of Physical Vacuum***

***Anatolii Pavlenko***

Open International University of Human Development  
Ukraine

### **Abstract**

The knowledge we have is a key to establish stable and safe operation of radio electronic devices based on the laws that have been proven by the new physics, which will allow us to be free and less concerned about our children's health and us.

There are several theories that aimed at this phenomenon understanding, the most famous is torsion field theory. Torsion fields are also called either Tesla scalar waves or longitudinal waves, tachyon field etc. However, none of these theories has nothing to do with a real world yet – so they are still not tested speculations. Nevertheless, I believe that almost everyone will accept that space itself should have a complex structure on the minor scale when quantum effects revealed. The question of interpreting information on quantum mechanics is considered in the article and it is asserted that the elementary

particles themselves have a consciousness, perhaps quite different from ours, thus supporting N. Tesla's ideas. It is believed that the behavior of elementary particles is purposeful, and when the particles interact, they exchange information. They need to correct ideas about space and time, and in this sense one can talk about a certain system. The principles of operation of devices for protecting the living from the negative effects of electronics are considered in the article, taking into account the fact that elementary particles have a consciousness. Undoubtedly, the unity of the world is informational in nature.

Keywords: torsion fields, a consciousness of elementary particles, protecting devices, Physical Vacuum.

*Keywords - Physical Vacuum, virtual particles, consciousness of virtual particles, Physical Vacuum Harmonization*

### **Introduction**

This paper an important reading if you are among millions of people who holds mobile phone next to the own head every day, or you are enchanted by the newest wireless Internet gadgets, or if you simply want to know whether the government is truly cares about public's health.

None of the devices nowadays has been found most customer accepted than a cell phone, wireless Internet gadget that has ignited prevailing public concerns about possible health effect, when case study reports about brain tumors development due to device use, began to appear.

### **Physical Vacuum**

The emerging area of research encompassing survival of consciousness –as strong as it is when viewed in terms of the convergence of evidence across domains of knowledge (e.g. after death communications, near-death experiences, evidence of reincarnation, laboratory studies with evidential mediums, laboratory research with technology), is consistent with the primacy of consciousness hypothesis". Dr. Gary Schwartz, Professor, Psychology, University of Arizona.

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.

Let us turn to the modern concepts of Physical Vacuum. In the Maxwell-Dirac electrodynamics, a physical vacuum is a "boiling broth" of virtual particles and antiparticles - electrons and positrons, where virtual particles constantly appear and disappear in a vacuum. They are considered as “virtual” because their lifetime is too short and limited by the Heisenberg uncertainty relation.

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 [2].

Figuratively speaking, in small space-time regions the vacuum is similar to "boiling broth", consisting of elementary particles.

Until recently, direct experimental observation of this fundamental phenomenon was not considered possible. Scientists proceeded from the fact that vacuum fluctuations always manifest themselves in nature indirectly, leading to a wide range of effects.

Physicists from the laboratory of Professor Alfred Leitenstorfer found vacuum fluctuations, and access to the ground state of the quantum system was obtained without any intensification [3]. Until now, direct experimental observation of this fundamental phenomenon was not considered as possible.

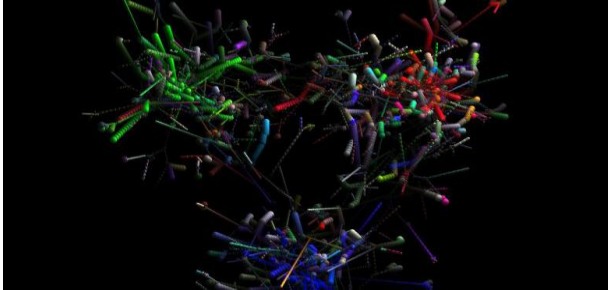


Fig.1

They demonstrated a first direct observation of the so-called physical vacuum fluctuations by using short light pulses employing highly precise optical measurement techniques (Fig.1).

Earlier it was pointed out that in quantum field theory vacuum fluctuations are interpreted as the creation and destruction 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 based on electrons, protons, neutrons, quarks, etc. Virtual particles participate in the same way in interactions, as real ones. A virtual photon is capable to generate a virtual electron-positron pair, analogous to the production by real photon of a real electron-positron pair.

The existence of virtual photons cannot be questioned, since Christopher Wilson and his colleagues at Chalmers University of Technology in the Swedish city of Gothenburg, together with colleagues from Australia and Japan, "embodied" virtual photons. [4, 5]. The waveguide, as it was expected, emitted photons extracted from vacuum fluctuations.

It is obvious that the description of the state of virtual particles of Physical Vacuum in an unexcited state is very complicated, since virtual particles have a very short lifetime, undergoing transformations. It is known, that any item shown in the world, including living creatures, polarizes the physical vacuum.

For a general understanding of this phenomenon essence, it is necessary to address some theoretical questions of the real and virtual particles interactions

The model of the Physical Vacuum polarization, linked to the perturbation of its electron E, as mentioned in Roger Penrose's book in 2007 [6].

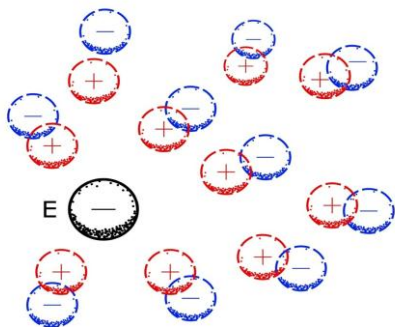


Fig.2

On Fig. 2 Virtual electrons - blue color, Virtual positrons – red color.

Let us consider the process of polarization in more detail. We shall assume that the electron E (Fig. 2) is a point charge located in a certain point of space. In this case, the effect of polarization of the Physical Vacuum could be described as follows. Let us that at a certain point in the space located next to the electron E, a virtual pair of particles - the electron and the positron are emerged and after a very short time annihilated i.e. the birth and subsequent annihilation of the pair must occur in an external electric field generated by the electron E.

The effect of this external field is that the born virtual electron is slightly repelled by the electron E, whereas the positron that is born is slightly attracted to it and hence there is a physical separation of these charges during their short-term life, i.e. symmetry of photons is broken. This phenomenon occurs all the time and everywhere around the electron E, which finally leads to a net effect called the charge polarization of the Physical Vacuum.

The schematic description of Physical Vacuum phenomena polarization is shown on Fig. 3.

The real polarization of the Physical Vacuum caused for example by TV-sets, computer monitors, and other electronic gadgets is shown on Fig.4. Their impact cause a charge polarization of the vacuum, as defined by quantum electrodynamics. The virtual particles, so rearranged, interact differently with the longer light wave. In built up pockets they make the light wave noisier while in the depleted regions the light wave is quieter.

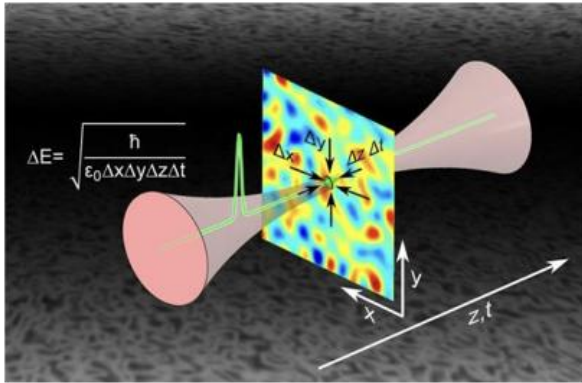


Fig.3

On the left shown Physical Vacuum in the unexcited i.e. virtual particles move chaotically, as in Fig. 1. On the right is a polarized Physical Vacuum, as presented on Fig. 3.

Fig.4

Virtual electron and positron are extremely small physical units, which are technically not measurable but the



Vega-12 device enables to detect polarization of the Physical Vacuum, as we call it torsion fields [7]. The device is only an indicator of torsion fields, it reacts both to the left and to the right swirled fields.

As with all constituents of the matter, virtual electrons and positrons are endowed with consciousness. The technology described here will become more and more dominating over the time, because it is based on the latest scientific studies and is an example of the consistent application of the natural laws of torsion fields. Much of our work focused on the properties of torsion field.

### Laws of Physical Vacuum Harmonization

Here it is necessary to quote the words of M. Gell-Mann: "*Quantum mechanics is a discipline of complete mystery and paradoxes, which we do not understand, but we can use.*" We will consider the Physical vacuum as a system of ring wave packets of electrons and positrons, but not as actual electron-positron pairs (Fig.5) [8, 9, 10].

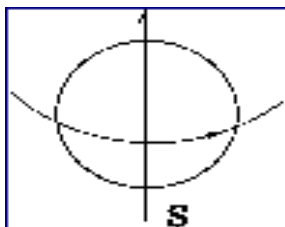


Fig.5

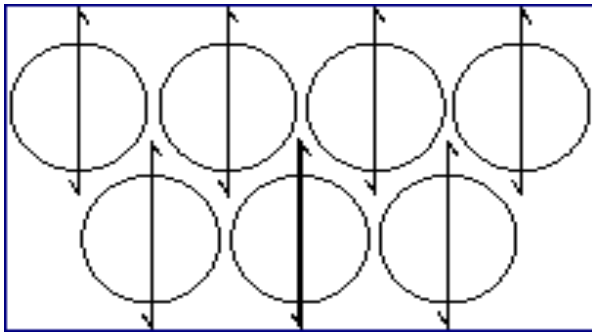


Fig.6

Therefore, generally accepted idea that vacuum is a state without particles is correct. The phyton model starts from the assumption that the vacuum contains not the particles themselves but vortex structures corresponding to the particles and antiparticles. A system of particles and antiparticles with these properties is called a "phyton" (Fig.5), and a medium formed by a dense packing of phytons - Physical Vacuum (Fig. 6).

We emphasize that with such approach we obtain a convenient, although different from modern concepts a simple model of the Physical Vacuum, which makes possible to explain many phenomena inexplicable based on the traditional approach.

Phyton simultaneously possesses both the properties of a particle (a combination of wave functions, for example, an electron and a positron), and a space-time structure that in the ground state determines the spin's own spin moment through twisting of certain space-time characteristics.

Within the reasonable assumptions, it is not difficult to see that the condition of the true neutrality of the electron-positron Vacuum will be the state in which the ring wave packets of the electron and the positron are nested inside each other. The spins of these nested ring packets are opposite, then such a system will be self-compensating not only for charges, but also for classical spin and magnetic moment. In this case, there will be no negative impact on the living organisms. We will outline several options to Harmonize Physical Vacuum by different methods, some of which at this stage could not be explained. We will begin description of the Physical Vacuum harmonization to provide example of geopathic zones [11].

Let us consider an issue of information management. Information management is considered as an action where the controlling influence on the Physical vacuum with the aim of its harmonizing has an implicit, indirect information influence. The information impact is provided by the subject which has two regions where the right and left torsion fields are recorded, and these areas are connected together. In such a case, virtual particles receive the command to become embedded or enter one into one. A physical vacuum composed by virtual particles is oriented toward this information impact direction. Virtual electrons and positrons move into the mode of "phytons" (Fig.5) when these virtual particles are merged, i.e. the components of the Physical Vacuum are in a symmetric mode. In this case, there is no negative impact on the environment and humans. It is understood that self-organization is arranged using the subconscious of the virtual particles themselves.

Many people can doubt this approach, but subconscious of virtual particles was pointed out also by Nikola Tesla in his time.

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 in principle to formulate a new approach to the interpretation of the experiments already performed and which lead to understanding of elementary particles consciousness existence.

Discovered by the physician Ernst Hartmann in 1954 and described in details in his book [12], the Hartmann grid is associated with the Earth's magnetic field. The grid lines are approximately between 8 and 12 inches in width. These lines are spaced about 6 feet apart in the north-south direction and about 10 feet apart in the east-west direction. However, these values can vary significantly depending on geographical location. Hartmann grid is often referred as a global grid. In his book, Hartmann provides clear evidence for the pathogenic character of the grid [12].

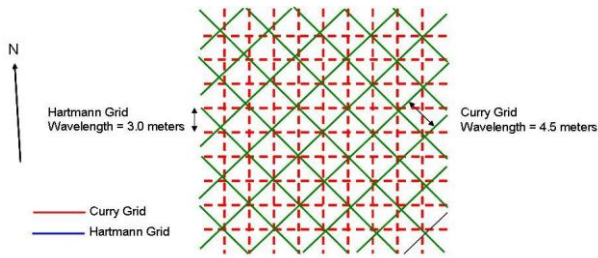


Fig.7

Harmonize the Physical Vacuum in a confined space can be possible by connecting the left and right nodes of the Hartmann grid with a simple fabric line, not to mention the connection by the conductive material. This means that virtual particles with such a connection became embedded into each other, i.e. the virtual electrons of the left Hartman grid node are embedded into virtual positrons. Since the characteristics of virtual electrons and positrons are opposite, the Physical Vacuum becomes neutral, i.e. there is no phase distortion in it and it does not have a negative effect on the living organisms.

For the other gadgets, such as TV, mobile phones, computer displays, other electronic equipment in the entire closed space the Physical Vacuum passes into an unexcited state.

As an any serious theory, the theory of torsion fields has demonstrated sufficiently robust predictability. All the experimental results obtained by the time of this publication, were first predicted theoretically. Some experiments are planned to be performed. Fundamental, applied and technological studies in the field of torsion fields is at the beginning of the way. 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.

However, even currently available theoretical and experimental background of the torsion fields paradigm, including those presented in this set, allows us to treat torsion fields as a reality, and inspires confidence in the great future of this branch of science.

Protection Methods for Mobile Communication Base Stations Antennae, Re-transmitters and Wind Generators. Adverse Effect on Living Organisms Besides known negative technogenic factors of the natural technogenic zones adversely influencing human health, a new factor requiring close attention has been discovered in connection to the growing coverage of the territories of the countries with developed mobile communication.

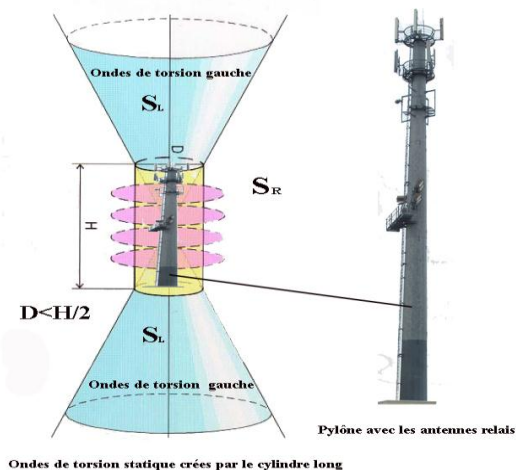


Fig.8

The protective devices make it possible to convert the negative impact effect into the positive one, i.e., invert the TF. For this purpose, protective “Vernada-Odo” device (Fig.9) is placed in the particular locations on the pylons of base stations or on the grounding of the base station (Fig.8).

The information influence is provided by “Vernada-Odo” that has two regions where the right and left torsion fields are recorded, and these areas are connected together. In this case, virtual particles get the command to become embedded or enter one into another. A physical vacuum consisting of virtual particles is oriented toward this information impact. Virtual electrons and positrons go into the mode of "phytons" (Fig.5) when these virtual particles are placed one onto another, i.e. the components of the Physical Vacuum are in a symmetric mode. In this case,

there is no negative impact on the environment and humans.





Fig. 9

The principle of the device is based on the harmonization law of a closed space, which we have discovered. “Vernada-Odo” can be also used in the subways.

Apparently, “Vernada-Odo” can be attributed to quantum-mechanical devices.

The issue of the quantum mechanics information interpretation is considered in the article [13] and it is stated that the elementary particles themselves have a consciousness, perhaps quite different from ours. The author believes that the behavior of elementary particles is purposeful and when the particles interact, they perform an information exchange. They must have corrected ideas about space and time, and in this sense, one can speak of a certain system. Undoubtedly, the unity of the world is of information nature.

The device “Vernada – Geo” (Fig. 10) neutralizes an influence of torsion fields radiation from



Fig. 10

Wi-Fi access points, routers, wireless networks, as well as geopathogenic zones in apartments, offices and other premises and thus protecting humans from harmful effect of torsion irradiation [10]. Operating device performs inversion of the left torsion field into the right one through the phase wire of the network. This leads to formation of the right torsion field, and consequently to a substantial decrease of the torsion field radiation level from Wi-Fi and geopathogenic zones in the area where above said power phase wire is available. When “Verada-Geo” switched in reverse mode then left torsion field will be totally dissipated.

You can use the wherever you have a free power socket. Since wiring between circuits is interconnected, you only need one “Vernada-Geo” for each electric meter/circuit breaker. The plug clears the negative effects of torsion field on the electricity supply inlet into the building.

The “Vernada-Geo” harmonizes the torsion fields running through the circuits, clearing and protecting you from the harmful torsion fields, generated by anything plugged to the circuit. It even clears harmful torsion fields generated by wireless devices (because the router is plugged in as well).

“Vernad-Geo” can be used to eliminate the adverse impact of the mobile communication stations, as well as wind generators.

You can use the “Vernada-Geo” wherever you live, work or spend time, including your home or apartment, your office, your school or classroom and a hotel room – any place where you can plug it in. When you keep “Vernada-Geo” on it provides an extra layer of personal protection against torsion fields that can affect the way you think and feel. Highly disruptive torsion fields from cell phones and transmission towers, high-voltage power lines, microwaves and

other appliances, electric current and even the Earth can cause a variety of health issues, from lack of energy to DNA damage.

Specific feature of “Vernada-Odo” is that it could be also used to neutralize the negative impact on people from the base stations of mobile communication. To do this, you can use an ordinary photo of the base station. It is assumed that any mobile communication base station has its own torsion field, which is a property only of this base station, since all molecules and crystals have their own torsion fields with their spatial-frequency spectrum. It is known, that there is an information link between the object and its photograph, because they are quantum-entangled objects, and the photograph itself is a receiver in the quantum teleportation of the base station states in the case under consideration. Let us consider the dynamic interrelation between a photograph and an object depicted on it, using the concept of quantum entanglement, i.e. by means of nonlocal quantum correlations. Quantum correlations are provided by a flow of appropriately formed virtual photons, electrons and positrons, as well as real quanta in the optical range.

It is well known that the mobile communication base station has its own torsion field, which depends on the form of the base station. Its’ own torsion field is transmitted and stored as a conventional or digital photo, i.e. in analog or digital form. Both images contain information of the atoms spins of the base station. When printing a photo in black and white color, the own torsion field of the base station changes the orientation of the atom spins of the photo material in such a way that the spins of this material repeat the spatial structure of the base station own torsion field.

The own torsion field of the mobile base station interacts with the torsion field of the photo, which, under the influence of “Vernada – Odo” becomes neutral, i.e. harmonized. The base station of the mobile phone and the photo are in entangled state, and the harmonized state of the photo is transmitted to the own torsion field of the base station and as a result torsion field of the base station also becomes harmonized. Outcome of this interaction is that the base station continues to operate in a normal mode, i.e. provides a conventional mobile connection without a negative impact on the environment and humans.

Other words, virtual electrons and positrons of the base station move into the mode of "phytons" when this virtual particles merged, i.e. the components of the base station own torsion field are in a symmetric mode.

It has been shown experimentally that if two or more base station masts are connected by any method (conductive or non-conductive materials, stations located near the fault in the Earth's crust or masts are under the same groundwater flow, or even a bed of already dried underground currents), then a state of entanglement emerged. In this case, the negative impact of all mobile communication base stations is blocked with the assistance of one “Vernada – ODO” device, placed next to the mast of any of the base stations. Another proof of the own consciousness in virtual particles is that the “Vernad-Odo” simply connected by a separate wire with a phase conductor in the room, causes a similar phenomenon as the “Venada –Geo” plugged in, i.e. a state of complete harmony is established in the room.

#### Spinor device

The Spinor device provides reliable and user-friendly protection from adverse effects of the torsion (information) component of electromagnetic radiation of mobile and cordless phones, MP3 players, laptops and other electronic devices.

Recent studies revealed that the torsion (information) component of mobile phones (cordless phones) radiation is the most substantial factor affecting human health. Spinor neutralizes harmful effects of torsion (information) component of mobile phone (as well as MP3 player, laptop etc.) radiation and creates a biologically safe area around the phone (any other electronic device).

This device does not interfere into operation of phones and other electronic devices. [14].

Previously, we considered transfer of the protected state of a mobile phone with a Spinor protection device to the mobile phone without a protection [10].

In this case, a right torsion field of mobile phone with a Spinor protection device acts on unprotected mobile phone and a copies original state of the protected mobile phone for reproduction. Hence, an important factor is that the electromagnetic radiation quanta are photons - the particles that have a spin. This is a well-established fact. Having a spin, these quanta create in some  $\sigma$ -neighborhood a spin polarization of the Physical Vacuum.



Fig.11

In the process of the quanta motion, they leave along their trajectory a spin-polarized filament (Fig. 12).

Fig.12

This cord will be an ideal torsion channel for communication between the flying quanta. Then a change in the polarization angle in one of the quanta creates a torsion perturbation and then, through the torsion channel (S-channel), the spin-polarized Physical Vacuum, will transfer the impact from one quantum to the other [10]. This effect will be real

if the assumption about the speed of torsion signals propagation is correct. Thus, it becomes possible to consider quantum nonlocality as a manifestation of "hidden parameters", whose role is played by the torsion field.

### Other various phenomena

An interesting phenomenon occurs from a disk of pure aluminum. In fact, it is a "natural torsion pendulum", in a horizontal plane during the daytime, and in an upright position – over the night. Due to unknown reasons, the disk spontaneously generates a right-handed torsion field and the left one, respectively (Fig.12). 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].

The period of its oscillations varies depending on the distance to a similar aluminum disk, which operate synchronously with the first one.

As these aluminum disks approach each other, the frequency of the emitted field polarity change increases, and when these disks contact each other, the generation ceases, and in the enclosed space in which these discs are located, the space is harmonized, i.e., the geopathic zones disappear, mobile phones, Wi-Fi, etc. Detailed information about interaction of the torsion field of an aluminum disk with a torsion field of a permanent magnet can be found in [10].

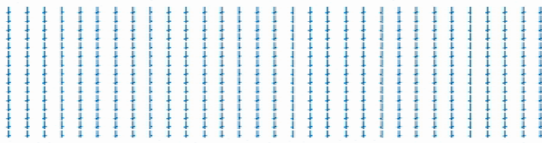


Fig.12

### The phenomena of the space harmonization or other methods, which still have to be understood and studied. Fact only.

1. Mobius sheet made of paper or metal, connected in the middle by any material (conductive or non-conductive), harmonizes the space in a limited volume.
2. Dr. Alexander Zarichanskii discovered several options for harmonization of the Physical Vacuum by finding a combination of objects with different colors regardless whether it is a sheet of colored paper or, for example, combination of the respective colors of plasticine [14]. Leaving aside the model and physical reasons of the discovered options to block Earth geopathic zones in residential and industrial buildings, we present the list of determined combinations of energy-free blocking colors:

White	Black, red, green
Black	Green, red
Purple	White
Blue	Yellow

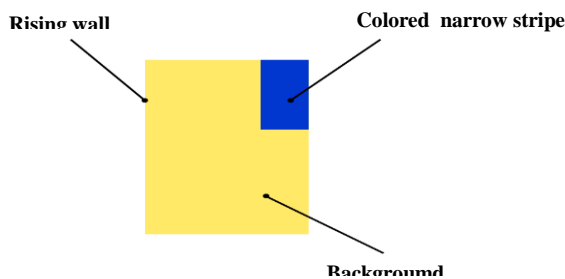


Fig.13

3. By placing a colored stripe (on the edge) on the base color (background), we get a torsion-active system. Torsion-active range blocks geopathic zones.
4. An interesting fact with the cactus. As a rule, cactus generate a right field. However, as soon as cactuses are nearby, the right field disappears, and in the room comes harmonization. If we isolate cactuses from each other with a foam screen that shields the torsion fields of the cactus, the harmonization of the Physical Vacuum will vanish.
5. Very interesting situation with parts of the living organisms (I used a piece of melon crust). I determined that a piece of melon peel generates the right field and checked the effect of this field on the mobile phone without a protective device. The left field disappeared, i.e. the protective properties of this peel confirmed. The photo of this peel worked the same way, so the peel and her photos were in an entangled state.



However, two days later, when the peel dried up and without moistening water the peel no longer generates the right torsion field, this field also disappeared from the photograph.

6. When a human is alive, he is forced to support the torsion field of all his photos, so do not take many of your photos and store them in your mobile phone.

This suggests that the interaction of virtual particles, respectively living and non-living substances occurs.

7. The surprising phenomenon of space harmonization on the verbal level comes from the loud singing of the OUM mantra by yogis or ordinary people, singing of the mullah, "Allah-Akbar" in a mosque and the propagation of this singing harmonizes the space. The sound of music from the Japanese temple, in which the emperor of Japan prays and the ringing of bells in the temples harmonizes surroundings. Phenomena of the space harmonization on the verbal level still have to be understood and studied.

## REFERENCES

1. Anatolii Pavlenko, 2017. "Possible ways to neutralize bio pathogenic radiation", International Journal of Current Research, 9, (07), 53790-53799.
2. Pavlenko A (2018) On the Possibility of Experimental Detection of Virtual Particles in Physical Vacuum. J Environ Hazard 1: 103.
3. Moskalenko AS, Schmidt JF, Krauspe P, Riek C, Seletskiy DV, Burkard G, Leitenstorfer (2015) Direct sampling of electric-eld vacuum fluctuations, Science 350: 420-423.
4. Wilson, C. M. et al. Photon generation in an electromagnetic cavity with a time-dependent boundary. Phys. Rev. Lett. 105, 233907 (2010)
5. Cathal O'Connell. Physicists make something from nothing with 'virtual' particles. News Physics. 23 January 2017.
6. Roger Penrose (2004) The Road to Reality. A Complete Guide the Laws that of The Universe- London, Jonathan Cape, p: 912
7. Pavlenko A (2014) Biosafe electronics. Step beyond the horizon of official science - Lambert Academic Publishing, p. 226.
8. Akimov AE, Tarasenko VY (1992) Models of the polarized states of the physical vacuum. Russian Physics Journal 35: 214-232.
9. Shipov GI (1998) A Theory of Physical Vacuum. A New Paradigm. International Institute for Theoretical and Applied Physics RANS, Moscow, p: 312.
10. Anatolii Pavlenko. Methods and protection devices from torsion radiation. Kyiv, Publishing house "Phoenix", 2017, 145 p., in Ukrainian.
11. Pavlenko A (2017) Geodynamic ones as Receptors of Solar and Techno Pathogenic Influences on Living Systems: Possible Ways to Neutralize Biopathogenic Radiation. J George Nat Disast 7: 188. doi: 10.4172/2167-0587.10001
12. Ernst Hartmann Bildung für Innovationen – Innovationen in der Bildung: Die Rolle durchlässiger Bildungsangebote in Clusterstrukturen (2012)
13. A.R. Pavlenko (2016). Geodynamic zones as receptors of solar and techno pathogenic influences on living systems: Possible ways to neutralize biopatogenic radiation. Fifth International Conference on Earth Science & Climate Change July 25-27, 2016 Bangkok, Thailand. Posters & Accepted Abstracts: J Earth Sci Clim Change DOI: 10.4172/2157-7617.C1.02
14. Anatolii Pavlenko Methods and protection devices against torsion radiation. Invisible Hazards in The Wireless Age. Kyiv, Publishing house "Phoenix", 2018, 150 p.