

Space Environment is an Inexhaustible Source for Conceptual Innovations

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Abstract

A collapse of SRT and GRT by Einstein put science in a difficult situation; a need arose to re-assess its achievements in such areas as exploring the Universe space, developing the unified field theory and others. Recognising the space environment (neo-ether) as a new corporeal entity opens a prospect for science to find a way out of a theoretical dead end. A monopoly of transverse electromagnetic waves has been ending. Electro-elastic longitudinal waves that usually travel with enormous superlight speeds open unlimited opportunities indeed before the humankind.

Keywords: thermal background radiation, neo-ether, dipole, spin, torsion radiation

In 2013, the American edition, *The Unsolved Problems in Special and General Relativity*, published results of astronomic observations made by Chinese scientists concerning motion of planets within the Solar System. In their papers, member of the Academy of Sciences Hua Di, professors Juhani Fu, Guo-Hua et al., in total 21 authors from the Public Republic of China, proved a complete failure of SRT and GRT by A. Einstein. As a result, they demanded to revise research results and conclusions on the space environment (ether) in the Universe [1].

A conclusive evidence for existence of the space ether is so-called "relic" thermal radiation identified in 1965 by A. Penzias and R. Wilson.

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The radiation has an average temperature of 2.7 degrees Kelvin. A. Efimov and A. Shpitalnaya in their paper called *On Motion of Solar System Relative to Background Radiation in Universe* [2] write that referring to background radiation as a relic one is "totally incompetent, it is more correct to identify it with neo-ether."

Astronomical observations [3] related to an assessment of the Solar System motion speed in the universe, have enabled to state that three-degree micro radiation (10GHz - 33 GHz) is not involved in this motion. Later, professionals from the NASA, B. Kori, D. Wilkinson, J. Smith et al., made corrections to initially recognised isotropic distribution of radiation in the universe [4]. They found available little deviations from homogeneous distribution. Experiments show that background radiation anisotropy arises due to motion of The Solar System relative to this radiation. A total speed of The Solar System relative to neo-ether is ~ 380 km/s directed with about 90 degree towards an ecliptic plane to the north. [2]

Remaining within SRT and GRT by A. Einstein, it is impossible to explain revealed radiation anisotropy.

For a cause for thermal radiation of background neo-ether one should search in physical nature of the space environment. If we assume that a structure of neo-ether includes virtual pairs of related charges, i.e. electrons and positrons, making dipoles, then with its physical features such an electrical environment, with its polarization would look like dipoles of dielectrics.

A thermal effect revealed by A. Penzias and R. Wilson one may explained in terms of Unitary Quantum Theory by L. Sapogin [5]. The space environment may generate spherically asymmetric potential trap holes. When electrons enter such traps, we observe an implemented solution to UQT differential equations, called *a maternity*."

According to him, following a series of oscillations at a potential hole, the electron intakes energy enough to leave out of the trap. Moving in one direction, spontaneously per se, electrons generate constant electric current able to warm the environment up [5].

The space environment (neo-ether) available in the universe provides the humankind with an inexhaustible source for conceptual innovations in many domains.

Instantaneous transmission of the information and energy to anywhere in The Solar System, gravity control, generating unlimited amounts of electrical energy at subatomic level, fundamentally new electric motors. All these do not make a complete list of innovations implemented using the space ether.

Formal science had not recognised new physical phenomena; nevertheless, many of those projects have been already in a stage of their technological implementation.

The most well-known among them is *The Global System to Transmit Energy Wirelessly* project [6], in part implemented by N. Tesla in 1908 in his laboratory on Long Island near New York.

In 1927, in paper *The World System* [6], N. Tesla wrote, "A fundamental distinction between now applied translational system and the system, I hope I would introduce, is that currently a transmitter emits energy in all directions, whereas within the system drafted by me to any place on the earth it only transmits the force field, while energy as such travels following a certain predetermined route."

A striking fact is that energy mainly travels along a curve, i.e. follows the shortest way between two dots on the earth's surface and reaches a receiver without any dispersion. A wireless transmitter generates longitudinal waves in the near-Earth electric environment. Its behaviour looks like that of sound waves in the air, except for the fact that huge elasticity and extremely low density of the medium (ether) makes their speed greater than that of the light.

Average surface speed is about 471,200 km/sec. At that, distribution of currents along the earth's surface more looks like the moon's shadow gliding across the globe."

One can capture the law on energy transmitted wirelessly from a picture by N. Tesla (figure 1). In an explaining text, N. Tesla wrote, "When a transmitter is working, two effects may be achieved, i.e. electromagnetic waves pass through the air, while current passes through the Earth. The former are distributed with the speed of light and a loss of their energy is irreparable in a circuit.

The latter keeps flowing with a changing speed depending on the cosecant of an angle, which makes a radius drawn from any arbitrary point on the axis of wave symmetry.

At the beginning, the speed is infinitely high, but it has been gradually decreasing until passes through a quarter circle and become equals to the light speed. From that moment, it is increasing again to become infinitely high at the opposite side. Instead of transmitting sound vibrations to a remote wall, I sent electrical oscillations deeply into the earth, and instead of the wall, I got an answer from the Earth. Instead of echo, I got a standing electric wave reflected from the far depths."

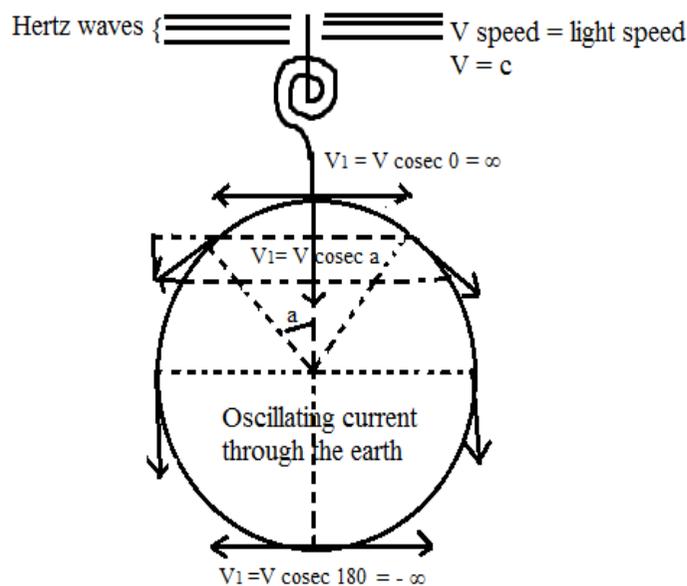


Fig.1: N. Tesla failed to complete this project due to lack of funding

History of another project for wireless data transmission to any point of The Solar System began in the 60-ies of the 20th century and referred to names of N. Kozyrev, G. Shipov and A. Akimov. Professor from the Pulkovo Observatory N.A. Kozyrev in time of his astronomical observations of the star Procyon using a telescope, equipped with a special signalling sensor, found unknown radiation. Herewith the telescope was not focused on a place, which was seemingly emitting visible light, but the place where the star was actually located at that time, taking into account the light speed of light and a direction and speed of the star motion star.

A propagation velocity of unknown radiation was significantly higher than the light speed (a signal reaches the earth almost instantly). N. Kozyrev recognised the time as a radiation source, as in math aspect he concluded that in the star all the forces were balanced to such an extent that there was just nowhere for power to come from [7].

However, in the late 60-ies, young scientists A. Akimov and G. Shipov reproducing N. Kozyrev's experiments concluded that it was not the time as a source of mysterious radiation, but massless inertia vortices, which they called torsion radiation. A nature of inertia vortices formation has been still unclear, but having accepted the hypothesis of cosmic ether, we can assume that a reason for vortices formation is outrage of the space environment. In his paper [8], G. Shipov writes. "Torsion radiation looks like massless vortices of inertia, which as their only physical feature have a spin.

A direction of vortex rotation determines its charge. Herewith having the same name charges attract each other, while unlike repel". Based on theoretical constructs by member of Academy of Science G. Shipov, Professor A. Akimov in the 90-ies of the 20th century developed torsion transmitting devices that presented fantastic opportunities in communications. Receiving and transmitting equipment was ready to get patents; including producing a prototype, but a lack of funding prevented the project completion. [9]

The third project refers to generation of electric power at a subatomic level. An author of the project is a group of enthusiasts headed by Professor at Moscow State Automobile and Road Technical University L. Sapogin and astronaut pilot V. Dzhaniybekov.

In his interview in 2012, L. professor Sapogin said: "The issue is a fundamentally new way to produce electrical power. Since Faraday time people have been generating electric current moving a conductor within a magnetic field. Our system does not include the magnetic field at all. We have almost completed building of a new installation. It is based on implemented quantum solutions called *The Maternity*, mentioned in paper *Which physics prohibits perpetuum mobile?*" Within UCT, both appearing and disappearing substance (energy) is possible, and we can apply it.

We need to select processes that release excess energy, while standard quantum mechanics cannot tell us how to do it. At the same time, UCT has such potential. We are perhaps achieving the time when a scientific theory, followed by engineering thought, would make it possible to obtain "free" power on installations based on features of the subatomic level in substance structure. "

The fourth project is associated with farther of new electrodynamics, "Siberian Maxwell" G. V. Nikolaev [10]. In September 1991, at the 2nd International Conference on Space, Time and Gravitation in Saint Petersburg, Nikolaev reported opening a new kind of the magnetic field, and new theory of electromagnetism, as well as presented a unique electromotor of his own design.

Austrian physicist Stefan Marinov announced his interest in Nikolaev's papers. He reproduced some G. Nikolaev experiments and built his paradoxical electromotor, functioning against laws of electrodynamics.

Stefan Marinov also published a monograph, a main theme of which was new theory by G. Nikolaev and a principle of operation for the electromotor that he called *SIBERIAN COLIA*. In his papers, Nikolaev presented himself as a follower to Maxwell theory, but the theory based on a corporeal medium, in which bias currents play a leading role. The most important achievement of the new theory was discovery of new scalar magnetic field $H_{\perp} = -\text{div}A$, supplementing the vector magnetic field $H_{\parallel} = \text{rot}A$.

To eliminate certain difficulties in determining power of magnetic interaction W between moving charges through their magnetic fields H_{\perp} and H_{\parallel} associated with making interaction formal of the vector and scalar fields between each other, G. Nikolaev suggested a move from two types of magnetic fields to one complete vector field H_{Π} :

$$H_{\Pi} = |H_{\perp}|r_0 + |H_{\parallel}|x_0$$

The known transverse Lorentz force presents far from a complete picture of properties that the magnetic field has. When we take into account all properties of the magnetic field, we also immediately discover an available longitudinal magnetic interaction force, which considerably differs from the known Lorentz force. [10]

Under the new theory of electrodynamics, many phenomena have found their explanations, such as motion of U-shaped conductor, an issue of *railgun engine* (SIBIRIAN COLIA) and results of Aronov-Bohm experiments, for which, going from transverse Lorentz forces, there has been no correct explanation found.

A physical nature of rotation of *engine* axis, fixed on two bearings, with current (AC or DC) flowing through external bearing rings (see Fig. 2), G. Nikolaev explained as follows: "In this experiment, with a constant angular velocity of rotating axis on bearings, dimensions of a circuit and hence its L inductance do not change and a dependence for the circuit energy

$$WL = \frac{Lj^2}{2}$$

from which we can find the force influencing the axis

$$F = \frac{dWL}{dx} = -\frac{j^2}{2} \frac{dL}{dx}$$

turns out to be essentially unacceptable.

An analysis of functioning for devices of such type shows that driving forces in them are not potential transverse Lorentz forces applied to radial rotation currents of an anchor, but longitudinal reaction forces applied to currents in supplying rails. "[10].

It should be clarified that in case of symmetric current input (figure 2.A), an engine axis starts spinning in any direction after the first push. In case of asymmetric current input (figure 2.B), the axis starts spinning without the prior push. This clarification is crucial, if we extend the *railgun* experiment to a global scale and if as an engine we consider the Globe, on a surface of which a negative electric charge $Q = 5,16 \cdot 10^{14}$ coulomb is concentrated, while along an outer sphere such currents go, which generate a magnetic field of 50 a/m, while the immovable space aether plays a role of bearings. Axial rotation of the Earth would depend on the same longitudinal forces, as in the *railgun* experiment.

Asymmetry for the Globe is achieved with running away magnetic and geographic poles in the space, eliminating a need for the first push.

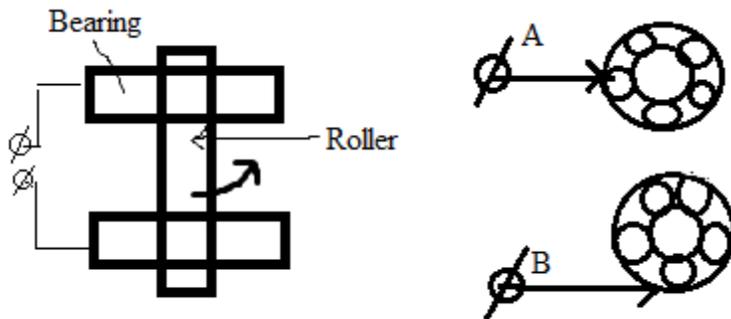


Fig 2.

The fifth project is a DC generator, which has been successfully operating for about 30 years as a perpetuum mobile, i.e. it produces energy from the vacuum. In Switzerland, the device is called *Testatik Machine M/L Converter* of the *Methernitha religions group*.

Swiss physicist Paul Baumann is an inventor of this "gratuitous" energy source.

Externally, the device looks like an electrostatic machine with Leyden jars. It has two acrylic disks with 36 narrow sectors, made of thin aluminium. The machine is manually driven by rotating disks in different directions. A rotation speed is 50 to 70 rpm. Having been firstly driven, disks spontaneously rotate. At that, we achieve DC voltage of about 300 to 350 V with the 30A current.

The installation was made in four variants with a power of 0.1, 0.3, 3 and 10 kW. Mechanical energy spent to rotate disks is only about 100 mW, hundreds of thousand times less than generated electric energy is. A motor and a generator in the device are combined together. The largest installation for 10 kW has a diameter of plastic disks of more than 2 m, while the smallest - 0.2 m. The machine with 3kW has a weigh of about 20 kg. Such a system is noiseless, compact and clean in an environment safety aspect.

The installation with 10 kW operates today in a town of Linden near Bern and belongs to a religious commune. A principle of machine operation has not been still entirely clear even to the inventor himself. To clarify this, the commune gave as a present a 100 W power installation to Stefan Marinov. In 1989, Professor S. Marinov published his book *The Thorny Path of Truth* that is a documentary evidence for broken conservation laws.

Later, getting familiar with papers by G. Nikolaev, S. Marinov suggested that in his invention Paul Baumann had implemented theoretical objectives of new electrodynamics. A generator operates on a principle of separated charges between two metal spheres insulated from the earth and each other. At the same time, rotation of disks after the first push and separation of charges in the inter-disk space filled with the neo-ether, occur under an influence of the same longitudinal forces that rotate a rotor of the SIBERIAN COLIA engine and provide bias currents when charging a flat-topped generator. The circulation theorem, under which efforts to replace charges would be equal to the energy released when the electric current flows through, after charges have been separated, is not true for single electric charges. Professor L. Sapogin proved this in the Unitarian Quantum Theory [5].

Thus, availability of the space environment (neo-ether), new electrodynamics by G. Nikolaev and the UQT by L. Sapogin give theoretical justification for the existence of perpetuum mobile.

The abovementioned list of projects can be continued, but the paper is not endless. Even the mentioned cases show that scientifically designed materialization of the space environment may provide us with a wide and varied choice of innovations. The matter depend on the science.

To conclude with, I would like to thank Professor L. G. Sapogin for his offer to write this paper and the exclusive content kindly provided by him.

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