

theory of multidimensional physical systems gives a direct way to the practice, showing the principles of construction of non-conventional systems and technologies and it allows joining of the parapsysics and parapsychology with the academic science. This theory supposes studying of the multidimensional physical phenomena, which should become a basis of a new direction of science that is named as "the theory of catastrophe". It is beyond doubt that the superfluid properties of ether lie in the base of inertia phenomenon and principle of relativity.

Further development of the physical principles of a new natural science will require a lot of time and efforts of the scientists of various specialties, while in the third millenium a strict theory will be constructed by means of application of mathematical methods for it. It will be similar to Feinman lectures on physics by its depth and seeming completeness.

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The Main Principle of Etherodynamics

Alexander M. Mishin

Experimental research work by Dr. Mishin leads to astrophysical discovery: The Center of the Universe is determined now. A unique gaging equipment was made by the author. This is the so called "device with an artificial biofield", which reacts to the strength of the ether wind.

Empirical studying of physical principles of the Universe discovers new sides of superfine, superfluid three-dimensional matter. All things existing in the material World were created from this matter. Our predecessors have been called this matter "ether" (it means "fire" in Greece) from the ancient times. They understood that it is a physical essence, which is very mysterious and incognizable in principle. In fact, the vortex-wave disturbances of ether are material, i.e. they contain energy, how we understand it, and thus they are observable. They occupy a space-time spectrum from zero to the Universal scales. A particular interval of this spectrum is given to the known material particles, which constitute the dense physical World. We are connected with this World energetically. The simplest ether vortexes (as in common superfluid liquid) looks like torus, vortex threads, solitary waves, but the long living elementary particles are the peculiar

stereodynamically multidimensional auto-oscillating systems. Their main energy properties were described by V.I. Ilin [1]. Now the experimental methodology and devices, which allow us to observe and study the vortex-wave forms of ether (not belonging to our real World) are developed [2-5].

We should note that the properties of free ether are principally different from the properties of ether, which is a form of steady real matter studied by the official science. In the earth laboratories the laws of classic physics, which describe the processes in matter, are performed at 96% on average [6]. In the limits of Galaxy the laws of free and bound ether act together and dynamics of the entire Universe is subjected only to the laws of free ether since the common matter and anti-matter constitute the insignificant part of its volume.

At the same time special observations and experiments show that in real Nature the well-known elementary particles are accompanied by the topological multitude of other vortex-wave structures of free ether (topological harmonies look like the famous toy Matryoshka), which are situated conditionally in solid, fluid, gaseous, plasmic quasimaterial state as well as in the fifth particular state. This state was recently opened by American scientists and was called "fermion gas". The main laws of multidimensional etherodynamics were given in my previous articles [2-5,7,8]. However, the vortex-wave processes in free ether have unique properties unknown in the material World. The given article is devoted to the consideration of these

properties. Further the notions “material” and “anti-material” are applied for the vortex-wave structures independently from the characteristic sizes of ether vortexes (level of the Universe).

New properties and possibilities of the modified electromagnetic auto-oscillating system with an artificial biofield were described in the work [5]. This system contains the linear pendulum, which swings in the horizontal plane with its own frequency of 1-7 Hz. Further research showed that the full pattern of ether waves disturbed by the pendulum looks like more complex and corresponds to the image on the Fig. 1 (in horizontal plane). Here the point 8 means the vertically located axis of pendulum. The swinging load 9 is shown in the center of the drawing. At first I demonstrated this diagram in the report on the International Congress in Saint Petersburg, 1998 [9].

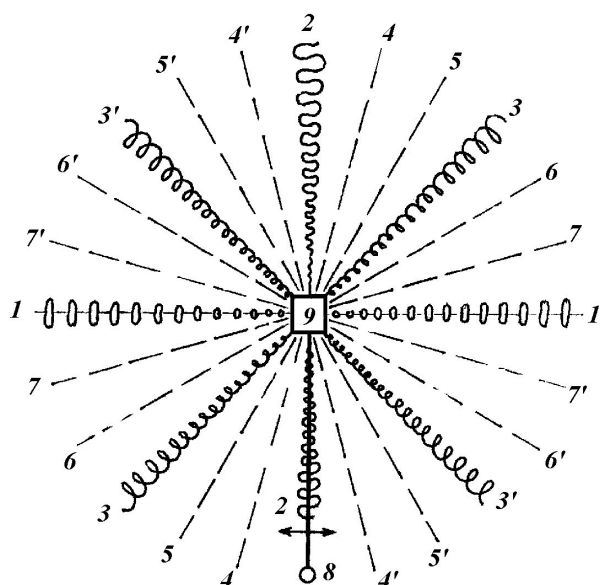


Fig.1

I will shortly remind about the methods of experimental research. Since we speak about the radiation of the narrow beams with the frequency of few Hz and divergency less than 2° , then it is clear that there are principally new, non-traditional wave processes. These waves are propagating by the ether model with a small speed, because they belong to the macroscopic area of the vortex spectrum [8]. The beams shown on the Fig.1 are easily observed by the method of extrasensory perception. Along with this, the non-traditional waves are not only radiated but also registered by device with an artificial biofield [5]. Of course, studying of ether properties is a laborious work, which can be compared by a traditional physicist with the work in a common laboratory and with common devices, but in a full darkness.

And now let's make some qualitative physical discussion on the nature of waves disturbed by the mechanical pendulum in a particular superfluid material

medium in conditions of air atmosphere and gravitational field of the Earth.

Radiation along the line 1-1, which coincides with the direction of oscillations of pendulum, can be considered as longitudinal toroidal ether waves, which are the most neutral vortexes. They twisted only in the direction of the movement. The same kind of the wave is propagated to the left and to the right, but in opposite phases. With the extrasensory perception the longitudinal waves are “soft”, elastic, corresponding to the properties of matter the load pendulum made of. However, the last circumstance, which demonstrates the “matter” of macrovortexes corresponds to all kinds of waves considered further in the same manner.

We should understand the matter of ether vortex as an assembly, spectrum of smaller vortexes of deeper levels, which take part in the localized movement under consideration. Since the vortex spectrum of ether is quantized in all conceivable spatial scales (and corresponding circular frequencies) any ether processes have the same character.

Accordingly, in the perpendicular direction 2-2 the transverse waves are formed, which can be called the topological harmonies (sub-harmonies) of classic electromagnetic waves, because their vortex structure in this experiment has macroscopic sizes or rather sizes of vortexes, which form the waves. According to Azukovsky [10] these waves look like the Karman's track and it is close to the truth. These waves are perceived weaker both by the sensor way and artificial biofield device, but, however, it is not the evidence of their smaller intensity.

By the line 3-3 at an angle of 45° in the direction of the movement of pendulum (in the direction of propagation of longitudinal waves) a particular longitudinal-transverse radiation is formed. This radiation has a left helical spiral vortex structure with a twist angle of 45° and torus twisted in two directions. The research showed that this radiation corresponds to the common matter structure called in traditional physics “de Broglie waves”. These are the most “heavy” and viscose spiral waves, which interact with the matter in a largest extent. In the direction 3'-3' the radiation has an analogous character, but with the right twist. It corresponds to the antimaterial, weakly perceived structure. The longitudinal-transverse waves are the protomaterial or quasimaterial formations only. In this case they belong to the macrofloor of the Universe and correspond to the essences of “jan” - “in” subtle energy in ancient Chinese philosophy.

Let's remind another time that while propagation of longitudinal waves on the surface of the Earth the left longitudinal-transverse wave is material, and the right wave is antimaterial. The similar waves represent the consecution of toroidal vortexes, which are twisted in two directions in such a manner that the point on the surface of torus moves along the right or left spiral at an angle of 45° .

The quasimaterial spiral properties manifest also in the radiation in directions (4-4)-(7-7), which belong to the kind of unexpected longitudinal-transverse waves with an angle twist of 15° , 30° , 60° and 75° and the same antimaterial radiation in directions (4'-4')-(7'-7'). The intensity of these vortex-waves according to the available data is lower in comparison with the main ones (for the used methods of registration).

All considered radiation is propagated mainly in horizontal plane. The explanation of this feature is the fact that the near-Earth layer of ether in the part of spatial-time spectrum of vortexes under consideration has a pronounced vertical anisotropy and in horizontal plane it is practically homogeneous. It is experimentally proved that anisotropy of ether is stipulated by the gravitational field of the Earth [11]. We should take into consideration the fact that gravitation directly influence the process of formation of ether waves. That's why in the vertical plane and other planes ether waves have their features and now they are not studied enough. But it was stated that the material waves are propagating from the horizontal plane downward and the antimaterial waves are propagating upward. The radiation Rose also is formed in the planes, which pass through the beam of the longitudinal wave and situated at the angle of 45° to the vertical plane.

The given waves in free ether are sufficiently different from the known elastic waves, because in this case the radiation can be considered as a flow of macroscopic quasiparticles, which propagate with the low speed and divergence of about 2° . (These 2° are due to the curvilinear movement of the pendulum. In reality the beam practically does not diverge). The wave properties nevertheless conserve and manifest in the partial reflection from the boundary layer and in the realization of the laws of geometrical optics with passing through the common lenses. As it is known, the optical properties of non-traditional waves was firstly discovered and used by N.A. Kozyrev [12]. In the solid ether phase, for example, in gravitational field elastic waves can also be, which do not have their own vortex structure, but these dynamic processes belong to the particular quasimaterial ether ("hologram" of the standing waves).

Technically simple and very difficult in method physical experiment described above has a deep cognitive meaning and allows to make the following conclusions.

1. Since the longitudinal-transverse wave with the twist angle of 45° as de Broglie wave corresponds in the microworld to the classic material structure (in the form of elementary particles) then other ether waves of this kind with another twist angle found by us should correspond to some forms of matter. It will be rational to include them into the program of scientific research. Potentially there can be 4 kinds of elementary particles and antiparticles besides the known ones. They can belong to our spatial-time floor as well as be situated beyond its limits or in some other vibration range.

In traditional physics the momentum of elementary particles is characterized by the spin quantum number. This number for photon is equal to 1, for electron it is equal to $\frac{1}{2}$ and for pi-mesons it is equal to 0. According to the diagram on the Fig. 1 the transverse ether wave corresponds to photon. The longitudinal-transverse wave with a twist angle of 45° corresponds to electron. The longitudinal wave corresponds to pi-meson. Our experiment states that there are should be elementary particles and antiparticles of $1/6$, $1/3$, $2/3$ and $5/6$ spin.

According to the principle of topological and system fractality [7] the seven-beam rose of material vortex-wave radiation inhere to all scales of the Universe including geophysical, solar and others. We should remember that the notions "left" and "right" as well as the notions "top" and "bottom" have their sense only with the presence of gravitation, when the processes in the vertical plane are considered. Any gravitating system has a center of gravitation, i.e. any physical body or system from elementary particle to the entire Universe. However surprising it is, but we can find a lot of mentions about seven vivifying beams of "light" in esoteric sources.

2. All waves in free ether has a vortex nature (we do not consider the elastic waves in the quasimaterial solid state here), then it will be logical to apply the stated principles of wave etherodynamics to all natural range of spatial-time vortex scales. Then the longitudinal and transverse waves appear to be common to all material and antimaterial Worlds. Therefore, we cannot determine by optical and other kinds of electromagnetic radiation, what object we observe, i.e. we cannot differ galaxy from antigalaxy. This fact should be noted by astrophysicists.

It is also evident that double and triple non-traditional images of cosmic bodies now can find their explanation taking into consideration the existence of seven kinds of narrow-beam material ether waves, which appear in every gravitating system (for example, the double image of the Moon given in [5]).

3. The speed of propagation and its own frequency (angular speed of rotation of vortexes) of the ether wave are in inverse proportion to the size of vortexes, which form this wave. Therefore, to the left of the microworld with the decrease of vortex scales the speed of waves (topological harmonies) will more and more exceed the speed of light, and to the right of the microworld the waves (topological subharmonies) will slow down [8].

Registration (detecting) of non-traditional wave by common physical methods is complicated because of the fact that there are an energy and informational barrier between the vortex-wave structures of ether, which belong to the different areas of the spatial-time vortex spectrum (different levels of the Universe). This barrier reflects the fundamental property of the superfluid ether as a stereodynamically multidimensional synergetic system [7]. We can say,

that the principle of least action is realized here on the ether level. An ability to control the above mentioned barrier lies in the base of functioning of all natural stable systems and it is specifically realized in the world of elementary particles and in the animate nature. It stipulates the permanency of all around us. The "lifetime" of the devices with an artificial biofield [5] in the same laboratory conditions lies in the limits of three hours up to several days. The devices are tested, which really react to the non-traditional disturbances during several weeks. It can be also that the given barrier spoils the life of many inventors tried to discover the perpetual motion machine, because they try to use the superfluid free ether as a working body of their machines.

The ether waves are represented in our World as flicker-noises, which characterize the change of penetrability of energy and informational barrier in time and with the growth of vortex size (decrease of circular frequency). They statistically reflect the influence of cosmophysical factors [6]. The external connections of the Earth on the classic material and field levels have another nature. Energy of this nature is defined by the spiral movement of the protogalaxy vortex of the fine-structure ether.

Characters of the flicker-noises as well as other experimental facts prove our supposition that the penetrability of the energy and informational barrier grow with the increasing of the spatial scale of the physical process. For example, the registration of the North-East ether wind in the laboratory condition can be made effective only during the first 3 hours. But such open systems like trees can detect this wind continuously that is proved by the corresponding asymmetry of their inner structure (pattern on the stumps) [4]. Thus, the influence of free ether really grow with the increase of the vortex size. We wrote about it in the beginning of our article. This fact should be taken into account for the theoretical models. When the experimenter creates the artificial biofields, i.e. overcome the energy and informational barrier, he oversteps the limits of the natural spectrum of ether vortex disturbances. This activity is amenable and dangerous. The so called "electronic smog" is also a kind of non-traditional technologies. It is created by all modern electromechanical devices in spite of the fact that the designers of these devices are not concerned about ether.

4. The next fundamental direction of physical research is a search and studying of methods to "stop" the radiation, i.e. studying the transformation of vortex-wave protomatter into the localized auto-oscillating systems (elementary particles). The methods to solve this problem require the further detailing of empirical model of stereodynamically multidimensional ether with the development of the main Principle of the Universe. The frames of this law we will describe below. Now we can only suppose that beyond the spatial-time limits of the common matter, in other quantum areas of the vortex spectrum the "temperatures" of quasimatter

are below the absolute zero even on the surface of the Earth. That's why in this case there are no circumstances for the appearance of the steady "stopped" vortex-wave forms (macro- or femto-scopic elementary particles). It is evident, that the huge flow of additional energy is necessary for the wave structures (moving in straight lines) to transform into the real matter. However, the phenomena of a ball lighting or UFO are undoubtedly prove the reality of existence of macroscopic elementary particles.

It should be understandable that now we are taking the first steps to the general theory of ether waves and quasimatter. Beyond the limits of the given physical experiment applying another empirical material it was discovered that any flow or movement of ether has vortex-wave properties independently from its origin [4,7,11]. A physical body situated in the ether flow becomes a source of secondary radiation taking into account the hierarchy of gravitational fields. But according to the scheme described above the ether waves of all 12 kinds are generated by the body in three planes. With this we consider the body as any material object having the classic mass.

Thus, besides the considered macromechanical method (Fig. 1) the ether waves as topological subharmonies and insufficiently known harmonies (femtosc scale) are disturbed by all forms of material movement including electrons. That's why the spatial-time spectral composition of non-traditional waves is very wide and diverse, which creates the known difficulties to identify and study them. And when the physical principles of these waves are generally unknown, the discussions on the "non-physical component" of laser emission [13], choral and torsion fields, psi-waves and other things begin.

(Editor's: We should note, that "non-physical" choral, torsion and other fields mentioned here by Dr. Mishin are considered by others as real physical fields).

... we could determine the true coordinates of the Center of the Universe

Fundamental principle of etherodynamics plays an important role in formation of the Universe including our dense world. The twelve-beam rose of vortex-wave radiation allows to see the deep layers of electro-dynamics. For example, on the base of this law a fine ether structure of electromagnetic fields was discovered and a new physical phenomenon was theoretically forecasted. This phenomenon was further discovered during the laboratory experiment. We will consider this phenomenon in the next article.

Rotation of the Earth creates the ether flow (ether wind) from the East to the West, which in every point of gravitational field of the Earth forms 12 beams in horizontal and other planes and creates a steady grid

of spiral vortexes and antivortexes. We call it Hartman's grid [4]. The most intensive material longitudinal-transverse waves (de Broglie's waves) are directed from the North-East to the South-West (that is Chinese term "jan"). The analogous antimaterial waves (that is Chinese term "in") having the characteristic sizes of macroscopic vortexes are directed from the South-East to the North-West. In my experimental practice the geophysical jan-wind was the first to discover, and it called a great perplexity, why it deviates to the South-West and does not coincide with the direction of the Earth's rotation [2].

The spiral-vortex cellular structures should also exist in the gravitational fields of the stars, galaxies and the Universe. It is very important that in the last case the process of rotation creates the spatial grid of galaxies and antigalaxies, which cannot have the steadiness of Hartman's grid in free ether. First of all, galaxy is a vortex, which contains the spiral with an angle twist of 45° . The common matter is born in the structure of this vortex and fractally manifests itself. The quantity of galaxies and antigalaxies, matter and antimatter should be the same in the scale of the Universe. This is a fundamental property of free ether. A spirally symmetrical world of stereodynamic topological harmonies accompanying the material processes on the Earth can be called virtual in comparison with the left spiral dense physical world, or the physical plan according to esoteric science.

To hasten the understanding of the properties of real ether to the notions of classic physics we can say that for the separate galaxy ether is described by the theory of two-component superfluidity by Landau, where the normal component is presented by matter and the superfluid one is presented by free ether. Then the known state of superfluidity (for example, helium-II) and the fifth state of matter as a "fermion gas" appear to be transitional between matter and free ether.

The main principle of etherodynamics (Fig. 1) allows to identify the global anisotropy of space [14,15] with the material longitudinal-transverse de Broglie's wave, which is created by rotation of the entire Universe. And the main universal longitudinal ether flow, which can be registered on the surface of the Earth, constitutes the angle of 45° with this direction. Having the data on the radiation Rose we could determine the true coordinates of the center of the Universe in equatorial system:

right ascension $\alpha=330^\circ\pm3^\circ$;

declination $\delta=-30^\circ\pm5^\circ$.

According to the observations of the activity of the Center by non-traditional method in 2001, the maximums of radiation were registered on March 5, 22, April 3, June 4 and 26, July 15 and 28, August 23, October, 10. Members of SAO RAS in Pulkovo documentary proved a synchronous increase of activity

of radiation of the Sun on the wave of 4,4 cm. It was noted that the discovered Center of the Universe coincides in its direction with one of the quasar groups, while another group of these objects is situated in the same plane ($\delta=-30^\circ$) at the angle of $\alpha=15^\circ$ [15]. It is characteristic that the angular distance by α between the quasar groups constitutes 45° .

As it follows from the above-stated, the main principle of etherodynamics, which makes clear the dynamics of the Universe and explains the causes of matter and antimatter formation is as significant as the law of gravity. In the limits of the received empirical data we have let's formulate this law as follows.

Any dynamic physical process disturbs 12 kinds of the vortex waves in free ether including longitudinal, transverse and longitudinal-transverse, which propagate in straight lines as narrow beams in every 15° in perpendicular, parallel planes and the plane at the angle of 45° to the gradient of gravitational field. From the vertical zero plane, which goes across the longitudinal wave to the left from the observer (if the observer is normally oriented in the gravitational field facing to the side of the propagation of this wave) material vortex-wave flows are created. To the right from the observer antimaterial flows are created. In the perpendicular plane material waves are directed downward and antimaterial ones are directed upward.

Waves radiated in the perpendicular plane at the angle of 45° (and possibly at other angles) require further more detailed studying.

We have mentioned above the main consequences from this law. But I should note another time that the external ether flow (longitudinal wave) interacting with the Earth creates the quasimaterial de Broglie's wave on its surface in horizontal plane (spiral wave at the scale of the Earth). The wave can be easily registered. This wave deviates by the course of movement at an angle of 45° . That's why the attempts to identify this wave with a hypothetical cosmological vectorial potential, which is perpendicular to the axis of rotation of the Universe [14, 15] are scientifically baseless.

In the real Space there are a lot of hierarchical small and big gravitational centers. That's why any rose of ether radiation reflecting the superposition of gravitational fields represents a complex many-beam and many-level formation. Studying of this formation seems to be a very important problem in science.

We can only regret that in spite of the evident constructive nature, the concept of ether is suppressed until now and is refused by the official science. To overcome the "ether blindness" we should only strain our intuition and senses. Then, if we overstep the limits of stereodynamically one-dimensional material world (concerning ether), we will open a wonderful and unknown new physical reality on every laboratory table, in every movement. I wonder why the academic elite is satisfied with the ideas of primitive materialism, why

it is bewitched by the illusion of simplicity and power of easily controlled “technocratic chariot”, which is on the road to ruin?

The author is grateful to Dr. Alexandra A. Shpitalnaya, who assisted me in discovery of the correlation between the solar activity and processes in the Center of the Universe.

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COMMENTS ON THE WORKS BY DR. MISHIN

Fundamental research in the field of etherodynamics made by A.M. Mishin covers a wide range of phenomena including those connected with the method of registration of direction of global cosmic anisotropy.

There were found some directions, which are the cause of appearance of new physical interactions. These interactions are responsible for the fluctuation of solar activity and geodynamic processes on the Earth and other planets of the solar system. The direction, which cross the coelosphere in the point with coordinates of straight ascendancy equal to 330° and declination equal to -30° (the second equatorial coordinate system) is the most interesting for the astrophysical application.

The author called this new discovered direction “the Center of the Universe” (CU). By means of observations with a big radio-telescope in Pulkovo, St. Petersburg, a new phenomenon was discovered in the microwave range of wave lengths (4.4 cm and 6.2 cm). This phenomenon consists in the following: after the disturbance of “the Center of the Universe” (this disturbance can be registered by A.M. Mishin by means of device with an artificial biofield) a powerful increase of radio frequency band radiation of the Sun were registered during next several days. This radiation also is accompanied by the disturbance of all nonstationary processes on the Sun. Thus, the new unique possibilities of short-term forecasting of solar activity appear.

The problem appears, which is connected with evaluation of simultaneous influence of activity fluctuations of CU on the nonstationary earth processes. First of all, the meteorologists, seismologists and services of Ministry of Emergency should pay attention to this activity.

The work of A.M. Mishin can be realized for the development of a detailed program of earthquake prediction and meteorological forecasting in various regions of our planet.

Members of Pulkovo observatory:

Senior staff scientist /signed/ Dr. A.A. Efimov

Staff scientist /signed/ Dr.A.A. Spitalnaya