

The World "Axis of Good" (2005)

(pra-centenary of special relativity)

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This note was written in 2005, just after the hundredth anniversary of special relativity, on the occasion of the following event. A report has appeared in press that “the American space-lab telescope Wmap detected in the Universe a symmetry axis of the angular distribution of the relict background microwave radiation”. It is hard to imagine a “better gift” to the centenary of SRT. Proponents of SRT (which are the most people among scientists) immediately titled this discovery “The Axis of Evil”, since it wrecks their notions that there is no absolute reference frame in the World. Such reference pegs turns out to exist and not only in outer space but in each ordinary Earth’s laboratory. It is this that I inform about the readers of this note, in case if they know nothing about it.

Already about year at scientific web-sites holds a fuss of a kind of sensation. No wonder, the discovery of such a peculiar property of the world space-time is reported as its preferred symmetry axis. The shock from this discovery is well understood – just yesterday the Einstein’s special relativity theory (SRT) strongly forbade not only speak or write but even think about possibility in the world space-time of preferred places, absolute pegs and benchmarks. The world is relative only and has no absolute at all, taught us 100 years all ideologists of SRT. And out of sudden a world axis is found!

To majority of people, indifferent and accustomed to oddities of SRT or those who makes a carrier due to SRT, grown up and devoted all their authority to advocacy of SRT and its protection from critics (who are often suspected in a pursuit to get a bit of the Einstein glory), this discovery threatens by wreck of their principles. That is why they gave to this discovery the name “Axis of Evil”. For a few of scientists, which remember the wise warning of Poincare “...*most of the ways that follows Einstein lead to a dead end*”, the discovery of world symmetry axis is a good news and big joy. So, it is perceived by them in no other way as “Axis of Good”.

In the foundation of medieval principle of relativity, considered by Einstein as the basis of the first postulate of SRT, lays the assertion of absolute motion being unobservable and states of rest and motion of inertial objects indistinguishable. Over 100 years of cultivating this principle among four generations of graduates the Einstein adherents inculcated into physics a rule prohibiting even to ponder over absolute motion of bodies. This ban decree is passed off now by them as a law of nature. It hemmed in the bud any attempts of science novices to discuss in theories the absolute motion, since the absence of reference points in space-time was thus assumed. The discovery of the World symmetry axis clearly testifies to occurrence of such benchmarks in the world space-time and it is relictly inherent to Universe, i.e. likely to have existed before particles of matter arisen.

For the time being in physics fully dominates the exokinematic hypothesis according to which the motion of bodies put into effect only through pair relations with each other, not permitting any dynamic relation with space-time (i.e. the Galilean supposition of no reference points and dynamic reactivity of space-time is in power, being exaggerated by the first postulate of SRT prohibiting preferred states, positions and places in space-time). The naivety of this rather a “sound” notion can

be excused by epoch of post-medieval resurrection of science of 15-19 centuries – but not the science of 21 century which extends the sensitivity of its observation tools at 150-170 db (by 10^{15} – 10^{17} times in comparison with medieval).

In 2005, on the eve of hundredth anniversary of SRT, at last broke out a “bombshell”: the Universe proved to possess such a feature as a fixed orientation – American orbital telescope Wmap has found in the space an axis of symmetry of angular distribution of the relict background microwave radiation! No doubt that the symmetry pattern may be retained 14 billion years since the collapse solely due to a stationary material medium of the kind of super-permeable aether, supporting this organization. Yet, nobody until now connected this symmetry axis with a substance of aether, i.e. the materiality of the space-time, and it is me who do so hoping that a recognition of absolute-local character of the world will come soon.

First reliable evidences of existence of aether I obtained in 1968 in an ordinary laboratory of a research institute in Russia [1-4]. They were inexpensive to my country: for a salary 150 roubles in month (while the American Space Program has cost a lot of \$ billions and was accomplished 37 years later). Since then I attempted many times to report in press (Uspekhi PhysNauk, JETP) my experimental results on observing absolute velocities and their interpretation in terms of luminiferous aether. But all was in vain [1-4]. Moreover, in the epoch of “mental feudalism” in CPSU-supervised scientific institutions of USSR I was expelled (1974) from Karpov institute for experiments made on my private initiative in night times and not included into official schedule of the institute. This expulsion was followed by the demolition of a spectrometric laboratory built by me. (Yet I was mercifully transferred to another institution of Obninsk.)

In those years I managed to find out not so obvious (as in the above mentioned measurements of the relict radiation) manifestations of the “harmonic markedness” of aether substance at distances $\sim 10^{-7}$ – 10^{-4} cm around each elementary particle. This was made by observations of electromagnetic aura of de Broglie waves in aether-gradient microsphere around each particle [2] imitating their behavior in the form of a phenomenon known as “diffraction of particles”. And insofar as all elementary particles are identical, in the sense of Pauli principle, in their reactions, already then I was inclined to conclusion that the reference character of space-time found by me is universal (but the regime of supervision by commissars did not allow to publish it). Nowadays all this is confirmed by the detection of the symmetry axis in the outer space. It remains only to be proud of these experiments (my and that of American scientists) which both unambiguously indicate the existence of preferred positions.

I am satisfied that my principal experimental results and scientific ideas (about material aether, its evalectic existence, birth from it of the space-time, corpuscles of substance, and all the diversity of the spectrum of disturbances excited by them in the aethereal body) are already published in university press [1-4] and can be get upon a request. It is not yet clear what applications this *discovery* may find in the nearest future. But together with my findings concerning the electromagnetic origin of Compton and de Broglie waves and with aetherodynamic rethinking of relativistic and quantum theories [1-4] *it* must lead to a grandiose revolution in all physico-technical applications of science.

It can be appreciated the contemporary drama of people grown up at Einstein exokinematic ideas of special and general relativity of no reference marks in the world (no preferred locations). Being trained in this way, ascending at the Olympus of science, they were able to persuade their governments to spend billions of dollars for a scientific project proving the Galilean-Einsteinian no-reference-mark

“Standard Model” of the world space-time (homogeneity, isotropy, emptiness and non-reactivity of space-time). However, suddenly they obtained an opposite result: the world turns out to have an axis, there are preferred positions and places everywhere in it, and the states of inertial systems having different velocities are far from being identical [3]. Being shocked by this discovery, they perceive the outcome of their investigation as a fallen on them evil. This is seen by the name which they gave to their discovery: there is found an axis of evil – they are yelling in despair (see the turmoil around the “axis of evil” in the internet raised in 2005).

The joy of opposing party is understandable as well. It is seen from the title of the current report. For critics of SRT the discovery of the world symmetry axis means the discovery of an “Axis of Good”. For instance, personally me almost forty years try to prove an empirical narrowness of the relativity principle and theoretical narrowness of the statements of the first and second postulates of SRT, developing thus timid doubts of great physicists, Poincare [5], Pauli [6] and Brillouin [7] concerning the problem of preferred loci in the Universe. Pauli, who regarded as dead end the Einstein’s idea of unified field, in following words expressed the problem of the first postulate of SRT: “*It is unsatisfactory that not all systems treated in SRT on equal footing and... there is no rationale for preferring Galilean inertial reference sets* [6, 7]”. This remark of 85 years old turns out to be prophetic.

In the second half of 20th century the similar problem of the second postulate of SRT was elucidated which Brillouin wrote about: “*It is unsatisfactory that, as is now known, in empty space, even in perfect vacuum, all kinds of other waves (de Broglie or Schroedinger waves) propagate with arbitrary speeds* [7]”. These doubts of great scientists hardly can be overestimated, and since the end of 1960th I guided by them in my pursuit for proving unreliability of SRT postulates. All these, the specificity of inertial reference frames according to Pauli, dependence of propagation speed of electromagnetic waves on the dispersion of properties of the space-time substrate – by Brillouin, and my demonstration of electromagnetic origin of Compton and de Broglie waves together with aetherodynamic reconstruction of relativistic and quantum theories [1, 4] now in natural way is complemented by the discovery of the existence of a World Absolute manifested itself by the symmetry axis of the Universe. An essential scientific proof is gained that the space-time is realized through aether, possesses a position of absolute preference and always ready to become a reference frame proving to a perspicacious observer the measuring of absolute speeds of the world objects under investigation. Such is the grace that descended upon us from the world "axis of good".

So was my article ended in 2005. Nowadays much of my experimental results are published in English [8-12]. The scientific circles of the civilized world responded to it similarly to that of the “axis of evil”, i.e. unscientifically, alike to reaction in my own country. This indirectly indicated that it also belongs to a “civilized world”. Still in [8-12] by logic and facts I disclosed the errors in interpretation of measurements by Michelson&Morley, Miller, Shamir&Fox, Trimmer, Herrmann, Nagel and others, and demonstrated that all these measurements gave a positive result (but not negative as many thinks erroneously). Nobody ventured to disprove my arguments, and those who responded confined themselves by a low-grade scolding.

Yet I revealed two main features of these centenarian experiments. Firstly, they always showed a non-zero shift of the interference fringe. i.e. they were always positive. Secondly, it is just an incorrect accounting by Michelson (and in his wake by others) of polarization of luminiferous media that brought about the fallacious interpretation of this shift. Take notice what values of speed of aether wind they obtained depending on the decreasing density of a gas light-carrier: in the normal-pressure air – $1 \div 12$ km/s (Michelson&Morley, Miller, Shamir&Fox), in laboratory vacuum $\sim 10^{-3}$ atm – ~ 4 cm/s (Trimmer et al.), in laboratory vacuum $< 10^{-9}$ atm – few $\mu\text{m/s}$ (Herrmann and Nagel). The due accounting of polarization of aether and particles in optical media [2-4, 8-12] always corrects the errors of interpretation, coming from Michelson, and leads in all mentioned authors to the same values of speed of aether wind $150 \div 600$ km/s (see the table in [12]) keeping with the astronomical measurements of the Earth's speed. That's where the root of evil in science today.

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