

they are “black holes” visually for each other. Interaction of these worlds is weak, that's why it is called perceptible, informational interaction [9], which can be conceived in the intuitive level [10].

Conclusions

- There is non-linearity of distribution of frequency-amplitude characteristics (potentials, conditions) in the rythmodynamic space, which creates an illusion of curvature.
- “Frequency pulling” is a reason of gravitational red shift, deceleration of rate of the atomic clock, mismatch of frequencies.
- Mismatch of frequencies of the object leads to the vectorial deformation of the interference field. Reaction on the deformation is the movement (free fall).
- A massive body becomes invisible due to the shift of its frequency characteristics to the infrared (black hole) or ultraviolet (white hole) area. In such an interpretation the “collapse” is a quick process of shift of the frequency characteristics of the object.
- A notion of “Shvarzshild's sphere” is changed by the frequency horizon. An object got beyond this horizon becomes invisible.
- Electromagnetic waves pass through the Shvarzshild's sphere free in both directions.

If the uncompromising classical (diffusion) and “neoclassic” (buracanian) hypotheses were in contradiction concerning the question of black holes up to the present time, then with appearance of this article a new point of view (rythmodynamic) came out. This point of view states:

- There are no curvature of space, there are no black holes in a common sense, but there is an illusion

that the bodies become invisible due to the shift of their frequency characteristics to the infrared or ultraviolet area.

- Our Universe is bounded from the both sides by the frequency horizon. That why it is non-observable for the external worlds, i.e. it is a “black hole”!
- As the mass of black hole increase, its frequency increase too and the moment can appear, when the further increasing of frequency will lead to the weakening of gravitational properties at first, then to the leaving of black hole to another frequency interval of space. For the habitant of another frequency scale this process can be observed as a birth of a new star or new elementary particle.

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In memory of Acad. Vladimir Ivanovitch Zubov
April 14, 1930- October 28, 2000

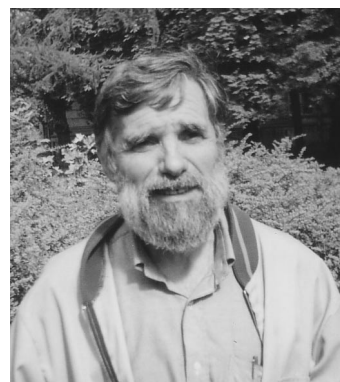
Hydrogen-Helium Energy on the Base of Laminated Silicates and Tectosilicates

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In October 31, 2000 an opening of Research Institute on Cosmic Energy (RICE) took place in Munich. The opening of a branch Institute in Saint Petersburg is planned to be done in a year. Official materials were published in the magazine “Raum und Zeit” (“Space and Time”) #109 and #110, 2001. Internet address is www.raum-und-zeit.com. A gravelectrical transformer of cosmic energy was shown on the presentation of the Institute.



Dr. Oleg M. Kalinin

Transformation of energy is a central notion in universal (analitical) electrodynamics by Maxwell-Zubov. Acad. Vladimir I. Zubov studied the unification of electromagnetic and gravitational interactions. Eighler's rotatory mechanics with three Eighler's angles (precession, nutation and proper rotation) is opposed to Newtonian translational mechanics. Proper rotation is usually called as rotation, twisting or torsion.

In 1995 Dr. Oleg M. Kalinin successfully defended his doctoral thesis on the topic "Mathematical biology and quantification". But Higher Certifying Commission of Russia organized a blockade of this thesis. The main opponent was the biophysical cathedra of Moscow State University. Research Institute of Cosmic Energy was established for the development of this theme. The main report on the topic of the thesis lasted more than one hour. Director of RICE Dr. Hartmut Mueller demonstrated a gravitational electric unit made of minerals of serpentine (negative potential "minus", laminated silicate) and quartz (positive potential "plus", tectosilicate). This so called Munich jar is a real perpetual energy source: according our calculations a small 3 Wt lamp will work about 3×10^6 years. In this energy source the transformational process of hydrogen into helium takes place and the catalysis of this process is silicon $^{28}_{14}\text{Si}$.

The informational equations of 1972 lie in the base of this theory. [Kalinin O.M., 1972, Problems of cybernetics, part 25, page 107-117]. In 1982 Dr. Hartmut Mueller found general solutions of informational equations. It was the constant of strong interactions, reverse constant of electromagnetic interactions and reverse constant of gravitational interactions. The Munich jar is a real example of electromagnetic and gravitational unification.

Gravitation and electric source of energy (Munich jar) also can work as a mean of telecommunication. The Munich jar transforms the energy of gravity waves to the electric energy. A reverse process is possible, i.e. the modulation of gravity waves and transfer of information by means of them. This communication already works between Munich and Erfurt. It is planned to make communications between Munich and Saint Petersburg in October, 2001.

Miniature Munich jars having the size of 6x8 mm are applied in a new medical device, which protects a man from the negative effect of low-frequency electromagnetic fields of technical origin in of 1-100 Hz band.

Another miniature Munich jars having the size of 12x16 mm also are applied in a new medical device, which makes the healing of wounds 2-3 times quicker.

More information you can find at www.raum-und-zeit.com. This information was also published in the magazine "Raum und Zeit", #109/2001, page 70, 66-73 and 105/2000, page 5-10.

Some notes from Faraday Lab Ltd.

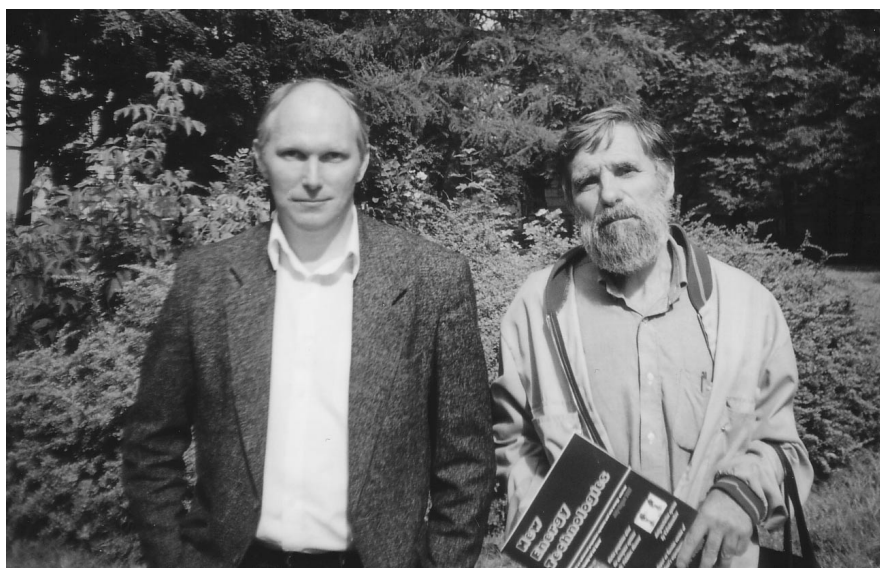
We have been acquainted with Acad. Zubov from 1989 up to his death. Besides the interesting discussions (particularly on the topic of inertialess non-reactive motion) I should mention his kind willingness to give an organizational support to the struggle for new ideas in science.

Concerning the above-mentioned Munich jar, I think this effect is a demonstration of electro-gravitational phenomena described by T.T. Brown in his patents of 1927-1965. Certain materials including complex silicates, laminators and clays and certain rare earth elements decrease its weight due to tribo-excitation. "The result is not only real loss of weight, but such materials suffer a retardation in gravitational acceleration (value "g")", writes T.T. Brown in his article "Method for Producing Gravitationally - Anomalous Materials". The method of excitation is a mechanical friction only (it is called "tribo-excitation").

The Minich jar, about which we wrote above, involves special materials mentioned in the Brown's articles to the process of electro-gravitational energy exchange.

We are interested in the development of this research topic, if there will be adequate investments from the customer. Commercial application of this technology is possible in telecommunication, energetics, aerospace and medicine.

Alexander V. Frolov



Alexander V. Frolov and Dr. Oleg M. Kalinin St.Petersburg, August 2001