

As we can see from this figure, the initial effect of lightning of the sheet reached 6-7 mg with the gradual recovery to its common weight in 15 minutes. The usual weight is shown by the lower line of recording. In the case of reversible deformation the change of weight of the body is not observed. So, compressed rubber or compressed steel spring shows their common weight. We should expect such result, because the **entropy of the system doesn't change with reversible processes** (as well as with elastic collision). That's why **decrease of the weight of the bodies should be discovered in the processes of a big increase of entropy**. It appeared, that initial heating of the bodies really leads to the very significant decrease of their weight.

Studying of this phenomenon gave a big material, which allows deeper understanding of the way, how active properties of time call decrease of mass and weight of the body.

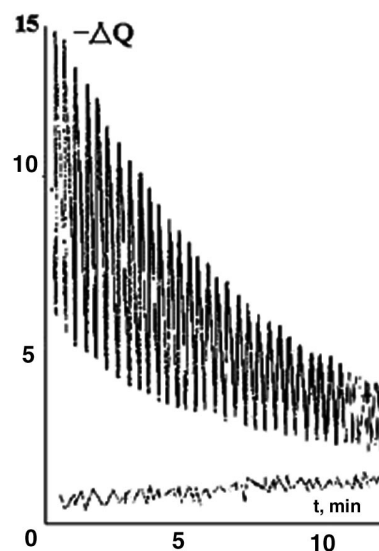


Fig.2

The Causal Mechanics

by Kozyrev N.A.



Review by Alexander V. Frolov

This is a short review on research work of the well-known Russian scientist Nikolai A. Kozyrev. Most of these papers are not yet published in English. There are important practical applications for new technologies, which are based on Kozyrev's theory and we'll be discussing this in our book. There is a project to publish an English language book about the time rate control technologies that will include all Kozyrev's papers devoted to this topic.

"The Nature of Stellar Energy Based on Analysis of Observational Data"

A conclusion about stellar energetics was made from astronomical observations: any given star is a machine that transforms incoming energy into heat radiation; there is no inner source of energy inside the star. The possibility of using incoming energy-flow exists in all area of space-time. ***It is proposed that through the power of some active properties, time can influence the energy of matter, and thus, time is a source of life in our universe.*** The density and other parameters of stellar matter in the mode of transformation (time-flow energy into heat energy) are calculated. It is concluded that output-energy depends on the volume of matter. It was proposed that time is not simply spreading, but being created throughout the universe at any given moment and for this reason telecommunications by means of time-properties can be produced as instantaneous signal instead of electromagnetic methods, which have some limited velocity.

"Cause or Asymmetrical Mechanics in Linear Approximation"

N.A.Kozyrev calculates the qualities of stellar matter where it is a transformer of time-form energy into heat-energy. It is concluded that the transformation involves several electrodynamic processes, but, generally, any closed mechanical system can also produce energy if it is an asymmetrical system. ***The asymmetry for mechanics according Kozyrev is a cause-effect asymmetry and if the mechanical system includes the non-reversible cause-effect connection it can take the energy from time-flow.*** (In my opinion, this is the theoretical basis for any kind of over-unity systems. Editor)

The notions of cause and effect are defined in the papers. N. Kozyrev postulates 5 properties of cause-effect connections. A definition and formula for the velocity of time-flow are given. It is proposed and experimentally demonstrated that in special case the time-flow can introduce two time-paired equal and opposite forces into the system.

N. Kozyrev demonstrates through gyroscope experiments the fact that time-energy can be transferred to the experimental system. It is also proposed that the energy of the system can be transferred to time-energy. In other words, the time flow can be accelerated or decelerated by means of energy exchange with a special asymmetrical mechanical or electrodynamic system.

In this paper N.A.Kozyrev describes two extreme cases for mechanics: there is the quantum mechanics of the atom world (microcosmos in other words) where there are no cause-effect connections since velocity of time is equal to zero; and if the velocity of time is equal to infinity there are only stable cause-effect connections for any process, that is classical Newtonian mechanics. The real world exists for a real time velocity between zero and infinity.

Experiments with vibrational gyroscopes and weight machines (scales) are described in the paper. Important conclusions are made about the possibility of increasing vital anti-entropy processes into biological systems if they are interacting with the time-flow.

"Causal Mechanics and the Potential for Experimental Investigation of the Properties of Time"

In this paper N. Kozyrev writes about the connection between matter and time. He describes three cause-effect axioms, determining the physical qualities of the velocity of time-flow, and publishing important experimental data. In his experiments, the weight of gyroscopes was changed when they were connected to weight machine (scales) by means of a vibrational system. Weight changes were detected at about 100 mg levels. These weight changes depend on frequency due to a discrete law. So, it is one of the real demonstrations of the discrete quantum world laws in our real world of classical mechanics.

"Unknown Worlds"

This work is a demonstration of organic matter possibility to get free energy for vital processes by means of transforming time-form energy. The "density of time" is defined. Experimental data for measurement of the density of time at different places on the planet is given. It is claimed that the density of time can be changed: near any given Cause process it is thinner and near any given Effect process it is denser. N. Kozyrev wrote about the possibility of using the physical properties of time for biological forms of telecommunications, i.e. for telepathy. This telecommunication cannot be screened and it is instantaneous signal system.

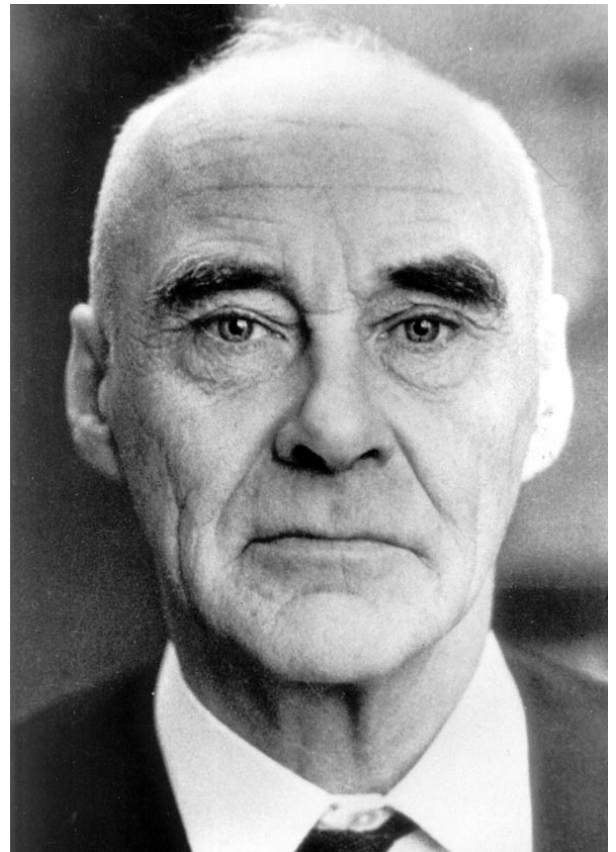
In this paper it was proposed to screen time by means of certain processes; i.e. it is possible to create compensation of natural time-flow by corresponding physical processes in some local space-time area.

"The Way to Space"

N. Kozyrev writes about the irrationality of rocket methods for space exploration and he proposes his theory to find gravitation - time relation to build antigravitation spacecraft. The force that would propel the spaceship in this case would be produced by means of changing of the physical properties of time. *(In other words it is warp drive topic, which being developed by many research teams today. Editor)*

"On the Potential for Experimental Investigation of the Properties of Time"

There is some potential for biological systems to use time-flow as a source of vital energy or life energy. N. Kozyrev describes experiments with gyroscopes and



several methods how to introduce some cause-effect asymmetry into a mechanical system. The value of the velocity of time-flow is calculated. Seasonal changes in the density of time produced by vital processes of Nature are detected. In this paper, functions existing between the density of matter and the density of time are determined and it was tested in experiments.

"Astronomical observations by means of physical properties of time"

In this paper N. Kozyrev experimentally determines value and sign of the time-flow; which is positive in clock-wise co-ordinate systems. The changes of density in time are experimentally proven: In the area of entropy processes (dissipation, heating of matter, melting of ice, evaporation of liquids, fading of plants) the "production of additional time" was detected. In the area of opposite processes (cooling of matter, freezing of water, crystallization) the "absorption of time" was detected. There is a description of mechanical and electromagnetic detectors monitoring the density of time changes.

"On Time-to-Matter Influence"

The paper is about N. Kozyrev's experiments to detect the production of additional time-flow by means of

special detectors in the area of dissipation and evaporation processes. It was assumed that the Sun is not only a time-absorption system but also a time-flow production system. This small component of the time structure is very important since it is ordered and it introduces the anti-entropy organizing effect to any natural process and especially in biological processes. ***It is proposed to use this organizing life effect to increase the vital processes of biological systems.***

"On the Possibility of Reducing Mass and Weight under the Active Properties of Time"

Experimental data were published to demonstrate the weight changes during some non-reversible deformations or heating. The nature of time and matter-time interaction was investigated in this way.

On New Energy and Political Authority

Alexander V. Frolov

The article "New energy in hands of politicians" [1] by A. Davidov, Head of Department of Strategy Analysis and Information, Council of the Russian Federation puts forward some interesting points. It demonstrates a great interest of Russian officials to the new energy technologies.

Mr. Davidov thinks that the electrochemical cells are the most perspective method to produce hydrogen as a fuel. Also he wrote about real possibility of working with plasma, resonance effects and other fuel-less systems since any system involved in energy exchange with environmental and by this way the over-unity efficiency can be explained.

Mr. Davidov also wrote about the main aspect of the autonomous energy system, which is their property to produce power directly on demand. It will lead to global changes in industrial relations, increase in personal and business independence, decrease in the authority of mediators in energetics, new kinds of business.

Davidov's conclusion is: that financial power will be replaced by new energetics, which should become a new direct tool of economic control.

I suppose the changes based on autonomous energetics should be really a global one, but it will not lead to destruction of the world financial system because the gold equivalent can not be replaced by the KWtts-hours for all financial operations at the moment.

It cannot be organized until the majority of energy customers use the centralized energy networks, for example in cities and towns. But in the future the currency stability of any state will be connected with the technological level of its autonomous energetics. The replacement of the gold equivalent in the financial system means an obligation to make an exchange a certain amount of KWtts-hours for the corresponding amount of money (currency). There is clear logic in this system since the money should be an equivalent of the work and work in physics is related with the KWtts-hours. It was great to read Mr. Davidov's statement about some completed research work into new energy and antigravitation started in the Soviet period of Russian history. He has promised to demonstrate the prototypes in 2 years if the financial problems were resolved.

Davidov's forecast and his conclusion on the change in balance of political forces correlate with my own conclusions of 1996, "Free energy" a written report was made for the Russian State Duma. In a few years the new political power may become the main force in Russia and power should be based on the technologies of fuel-less autonomous energetics.

Mainly this will lead to the strengthening of regional authority especially in far from Moscow areas of Russia and with a low population and low-tech industry as a result of their weak energetics. It may be also necessary to note that the new energy technologies are the key to new methods of space exploration. The advanced propulsion aerospace systems are the start of civilian access to space, which is a new large market.

Reference:

1. Davidov A.V. The new energy in the hands of politicians, "On the edge of impossible", #6 (259), 2001, p.14.