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THE FUNDAMENTAL RESEARCHES FINANCING BRANCH
“COGNITIVE MODELING IN THE PHYSICAL SCIENCES” (“OFN”)
OF “THE SF "SFA CMT" NAMED AFTER N.A. PROKOPENKO”

The developed “The fundamental researches financing branch “Cognitive modeling in the physical sciences”” (“OFN”) treats to the fundamental researches financing divisions of “The scientific fund “System and financial analysis based on cognitive modeling technology” named after N.A. Prokopenko” (“The SF “SFA CMT” named after N.A. Prokopenko” – The SF) as the first SF in structure of “The SIO “Academy of cognitive natural sciences”” (“The SIO “ACNS””), an additional component of science and education system of the modern country for the financing of creation, distribution and use of the fundamental main and derivative scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru) [see the fundamental researches financing branches and departments of The SF]:

- 1) it is executed by the principle of “administrative-economy submission”;
- 2) works in several main directions, which allow to provide the financing of development, production and promotion of the fundamental main and derivative scientific results (my second report on SRW from 2006-2008(9) y. was submitted to “The SPbSETU “LETI”” and The Government of The RF for the translation, carrying out of int. action and receiving of “The Nobel Prize”);
- 3) includes several various main divisions:

I. “The fundamental researches financing department “The theory of the physics, astronomy and space researches”” (“SOFA”) (*)
*[the financing of fundamental researches and developments in area “ T h e o r e t i c a l p h y s i c s ” (*)* – theory of questions and general problems of physical experiment, theory of physics of elementary particles, theory of fields, theory of high energy physics, theory of nuclear physics, t h e o r y o f p h y s i c s o f g a s a n d l i q u i d s , theory of thermo-dynamics and statistical physics, theory of physics of firm bodies, theory of physics of plasma, theory of physics of atom and molecule, theory of optics, theory of laser physics, theory of radio-physics, theory of physical bases of electronics, theory of acoustics, t h e o r y o f c o g n i t i v e m o d e l i n g t e c h n o l o g y i n t h e o r e t i c a l p h y s i c s , theory of cognitive models of interaction between elementary particles and firm bodies, fields, liquids and gases, t h e o r y o f c o g n i t i v e m o d e l o f m o d i f i e d volumetric planetary model of atom named after N.H.D. Bor, theory of cognitive models of temperature areas of plasma of atom and molecule, theory of cognitive model of optical environment of eye as optical device, theory of cognitive model of acoustical environment of ear as acoustical device, theory of cognitive model of waves distribution in environment;

the financing of fundamental researches and developments in area “Theoretical astronomy” (*) – theory of astronomy and heavenly mechanics, theory of astronomy and astro-physics of The Solar system, The Sun, stars, fogs, interstellar environment, star systems, theory of cosmology, theory of observatories, tools, devices and methods of astronomical supervision, theory of cognitive modeling technology in theoretical astronomy, theory of cognitive models of relative positioning of 1, 2, 3, 4, 5 and more planets and satellites, The Earth, The Sun and others;

the financing of fundamental researches and developments in area “Theoretical space researches of The Earth, The Sun and planets” (*) – theory of general questions of space researches of The Earth, The Sun and planets, theory of devices and methods of fundamental scientific researches of space environment, theory of planning and realization of starts of space vehicles and artificial heavenly bodies, theory of uncontrol movement of space vehicles and artificial heavenly bodies, theory of control of movement of space vehicles and artificial heavenly bodies, theory of space technics and technology, theory of safety and medical-biological problems of space flights, theory of use of space systems for connection and navigation, theory and problems of extraterrestrial territories discovery and prospects of astronautics, theory of astronomical objects research by space means, theory of geo-physical fundamental researches by space means, theory of research of The Earth from space, theory of cognitive modeling technology in theoretical space researches of The Earth, The Sun and planets, theory of cognitive models of gravitational and other interactions between 1, 2, 3, 4, 5 and more artificial space objects, satellites, planets, The Earth and The Sun, theory of cognitive models of work of basic rocket engine, the first, the second, the third and the fourth rocket engine of launch vehicle and others].

II. “The fundamental researches financing department “The theory of the nuclear physics and physics of atomic nucleus” (“SYF”) (*)

[the financing of fundamental researches and developments in area “Theoretical nuclear physics” (*) – theory of nuclear raw materials and fuel, theory of isotopes synthesis, theory of isotopes and ionization radiations, theory of nuclear reactors, theory of thermo-nuclear reactors, theory of radiations action and protection against them, theory of nuclear explosions, theory of nuclear fuel processing and waste disposal, theory of cognitive modeling technology in theoretical nuclear physics, theory of cognitive models of structure of chemical elements with 1, 2, 3, 4, 5 and more nucleus, theory of cognitive model of modified volumetric principle named after W.E. Pauli for studying electronic clouds within limits of power levels, theory of cognitive model of modified planetary model of atom named after N.H.D. Bor and others].

The fundamental researches financing branches and departments of The SF allow to the financing of development, production and promotion of the main and derivative scientific results of CMT.