

“the author of the unique technology” of cognitive modeling” Vetrov Anatoly Nikolaevich  
www.vetrovan.(spb.)ru  
RF, Saint-Petersburg city

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

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 Prokopenko N.A.” (“SF "SFA CMT" n. a. Prokopenko N.A.” – SF) as the first SF in the structure of “SIO “Academy of cognitive natural sciences”” (“SIO “ACNS””) and the add. component of the system of science and education 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 SF]:

- 1) it is executed by the principle of “administrative-economy submission”;
- 2) works in the 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 “SPbSETU “LETI”” and “The Government of RF” for the translation, carrying out of int. action and receiving of “The Nobel prize”);
- 3) includes the several various main divisions:  
I. “The fundamental researches financing department “Theory of physics, astronomy and space researches”” (“SOFA”) (\*)  
*“The financing of fundamental researches and developments in the area “Theoretical physics” (\*)* – theory of the questions and general problems of physical experiment, theory of physics of elementary particles, theory of fields, theory of physics of high energies, theory of nuclear physics, theory of physics of gas and liquids, theory of thermal-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, theory of the cognitive modeling technology in the theoretical physics, theory of the cognitive models of the interaction between elementary particles and firm bodies, fields, liquids and gases, theory of the cognitive model of the modified volumetric planetary model of atom n. a. Bohr N.H.D., theory of the cognitive models of the temperature areas of plasma of the atom and molecule, theory of the cognitive model of the optical environment of eye as the optical device, theory of the cognitive model of the acoustical environment of ear as the acoustical device, theory of the cognitive model of the distribution of waves in the environment of research;

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

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

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