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Projects Approved for Funding by ISTC Governing Board at the 37th Funding Session

1. Newly Approved Projects

2264 Investigation of Interaction of Intense Ion Beams with Matter and Dynamic Processes in Irradiated Targets

Project Manager: Vatulina V V; Leading Institution: VNIIEF (Sarov, N. Novgorod reg.); Collaborators: Università Degli Studi di Roma "La Sapienza"/Dipartimento di Energetica (Rome, Italy), Universität Frankfurt am Main / Institut für Theoretische Physik (Frankfurt, Germany), URA 0073/Université Paris-Sud / Laboratoire de Physique des Gaz et des Plasmas (Orsay, France); Duration: 36 months; Funding parties: EU

2845 Investigation of Simultaneous Signal Propagation from the Sources of Infrasound and Seismic Waves for Improving the Performance of the Infrasound Method of Monitoring the Conduct of Nuclear Tests (Continuation of the Research under ISTC Project No. 1341)

Project Manager: Baryshnikov A K; Leading Institution: NIIT (Pulse Techniques) (Moscow); Supporting Institutions: Siberian Branch of RAS / Institute of Solar-Earth Physics (Irkutsk, Irkutsk reg.), Institute of Atmospheric Physics (Moscow), Institute of the Geophysical Services (Obninsk, Kaluga reg.), Kola Science Center / Geological Institute (Apatity, Murmansk reg.); Collaborators: Bundesanstalt für Geowissenschaften und Rohstoffe / German National Data Center (Hannover, Germany), CEA / DAM / DCI (Bruyères-le-Châtel, France), Los Alamos National Laboratory (Los-Alamos, NM, USA), NORSTAR (Kjeller, Norway), Preparatory Commission for the Comprehensive Nuclear-test-ban Treaty Organization (Vienna, Austria), University of California / Laboratory for Atmospheric Acoustics (La Jolla, CA, USA), University of Mississippi / National Center for Physical Acoustics (University, MS, USA); Duration: 24 months; Funding parties: EU

2938 Metal Matrix Composites with Lightweight Reinforcements

Project Manager: Zhizhin K Yu; Leading Institution: Institute of General and Inorganic Chemistry (IONKh) (Moscow); Supporting Institutions: AO Kompozit (Korolev, Moscow reg.), VNIIEKhT (Chemical Technology) (Moscow); Collaborators: Los-Alamos National Laboratory (Los-Alamos, NM, USA), TNO Industrial Technology (Eindhoven, Netherlands); Duration: 36 months; Funding parties: US

3003 Radiation Impact of the Russian Nuclear Facilities on the Environment and Man. Amendment of the Scientific Basis for Radiation Protection of Non-Human Species

Project Manager: Sanzhayeva N I; Leading Institution: Institute of Agriculture Radiology and Agroecology (Obninsk, Kaluga reg.); Supporting Institutions: VNIIEKhT (Chemical Technology) (Moscow), State Research Center – Institute of Biophysics (Moscow); Collaborators: Canadian Nuclear Safety Commission (Ottawa, ON, Canada), CEA / Institut de Radioprotection et de Sûreté Nucléaire (Saint-Paul-lez-Durance, France), Forschungszentrum für Umwelt und Gesundheit GmbH (GSF) / Institut für Strahlenschutz (Neuherberg, Germany), International Atomic Energy Agency / Agency's Laboratories Seibersdorf (Vienna, Austria), Korea Atomic Energy Research Institute (KAERI) (Yuseong, Korea), Oak Ridge National Laboratory / Biological and Environmental Sciences Directorate (Oak Ridge, TN, USA); Duration: 36 months; Funding parties: EU

3031 Development of Resource Saving Alternative Technology of Conditioning Nuclear Power Plant Middle-Active Liquid Wastes with High Salt Content into Water Stable Mechanically Strong Isolating Matrix

Project Manager: Boltov Yu D; Leading Institution: FEI (IPPE) (Obninsk, Kaluga reg.); Collaborators: Ecometal S.R.L (Brescia, Italy), Friedrich-Schiller-Universität / Institut für Geowissenschaften (Jena, Germany), Nuclear

Safety Solutions Limited (Toronto, ON, Canada), Stoller Ingenieurtechnik GmbH (Dresden, Germany), The Zeopower Company (Chestnut Hill, MA, USA), Tokyo Institute of Technology / Department of Applied Chemistry (Tokyo, Japan), Universitat Leipzig / Wilhelm-Ostwald-Institute of Physical and Theoretical Chemistry / Adsorption Research Group (Leipzig, Germany), University of Thessaloniki / Department of Chemistry (Thessaloniki, Greece); Duration: 33 months; Funding parties: EU CA

3082 Alkane Selective Functionalization. Synthesis of Metallocene-Based Pincer Complexes of a New Generation, Catalysts for Alkane Dehydrogenation

Project Manager: Koridze A A; Leading Institution: INEOS (Organo-Element Compounds) (Moscow); Supporting Institution: Tbilisi State University (Tbilisi, Georgia); Collaborators: CNRS / Laboratoire de Chimie de Coordination (Toulouse, France), Indiana University / Department of Chemistry (Bloomington, IN, USA), The University of Montana, Chemistry Department (Missoula, MT, USA), University of California / Department of Chemistry and Biochemistry (Santa Barbara, CA, USA), University of Tokyo / Department of Basic Science (Tokyo, Japan); Duration: 36 months; Funding parties: US

3094 Development of experimental Prototype of Equipment and Measuring Technique for Control of Subcriticality of Neutron Multiplying Systems

Project Manager: Polkanov Yu G; Leading Institution: All-Russian Research Institute of Automatics (Moscow); Supporting Institution: FEI (IPPE) (Obninsk, Kaluga reg.); Collaborators: Oak Ridge National Laboratory (Oak Ridge, TN, USA), Pacific Northwest National Laboratory (Richland, WA, USA); Duration: 30 months; Funding parties: CA

3128 Using Low-Enrichment Uranium in VNIIEF Pulsed Nuclear Reactors

Project Manager: Voinov M A; Leading Institution: VNIIEF (Sarov, N. Novgorod reg.); Collaborators: Argonne National Laboratory (ANL) (Argonne, IL, USA), Princeton University / Program on Science and Global Security (Princeton, NJ, USA), Universita di Roma "La Sapienza" (Rome, Italy); Duration: 24 months; Funding parties: CA

3151 Experimental and Numerical Study of Critical Aerothermodynamic Phenomena on the EXPERT Reentry Demonstrator for Preparing In-Flight Tests

Project Manager: Ivanov M S; Leading Institution: Siberian Branch of RAS / Institute of Theoretical and Applied Mechanics (ITPMech) (Novosibirsk, Novosibirsk reg.); Supporting Institutions: Russian Academy of Sciences / Institute for Problems in Mechanics (Moscow), Makeyev Design Bureau of State Rocket Center (Miass, Chelyabinsk reg.); Collaborators: C.I.R.A. Italian Aerospace Research Center (Capua, Italy), European Space Agency (Noordwijk, Netherlands), von Karman Institute for Fluid Dynamics (Rhode Saint Genese, Belgium); Duration: 36 months; Funding parties: EU

3157 Spectrometric Position-Sensitive Detector of Electrons with Base Energy Shift

Project Manager: Pogrebitsky K J; Leading Institution: Russian Academy of Sciences / Physical Technical Institute (St Petersburg); Supporting Institution: VNIIEF (Sarov, N. Novgorod reg.); Collaborators: Brookhaven National Laboratory (Upton, NY, USA), NanoCarbon Research Institute Ltd. (Chiba, Japan); Duration: 36 months; Funding parties: CA

3158 Preservation Prions and Chlamydiae Stored in the State Virus Collection in Russia

Project Manager: Fadeeva L L; Leading Institution: Ivanovsky Institute of Virology (Moscow); Collaborators: Center for Biologics Evaluation and Research/US Food and Drug Administration (Rockville, MD, USA), Oxon Therapeutics, Inc. (Boston, MA, USA); Duration: 24 months; Funding parties: US

3161 Development of Mobile Simulator of Positive Lightning Current Effect on the Grounded Objects

Project Manager: Moskalenko V E; Leading Institution: VNIIEF (Sarov, N. Novgorod reg.); Collaborators: Department of the Army / US Army, Development and Engineering Center (Picatinny, NJ, USA), Metatech Corporation (Goleta, CA, USA); Duration: 24 months; Funding parties: US

3184 Evolution of Substructure and Phase Morphology in Alpha-Beta Titanium Alloys during Plastic Deformation and Their Influence on Mechanical Properties

Project Manager: Salishchev G A; Leading Institution: Russian Academy of Sciences / Institute of Metals Superplasticity Problems (Ufa, Bashkiria); Supporting Institution: Makeyev Design Bureau of State Rocket

Center (Miass, Chelyabinsk reg.); Collaborators: Air Force Research Laboratory / Wright-Patterson Air Force Base Ohio (Wright-Patterson, OH, USA), Ladish Co. (Cudahy, WI, USA); Duration: 24 months; Funding parties: CA

3192 Measurements of Mass, Energy and Angular Distributions of Fragments from Neutron-Induced Fission of Th-232 and U-238 and Creation of Intermediate Energy Nuclear Data Files for ADS Research

Project Manager: Ryzhov I V; Leading Institution: Khlopin Radium Institute (St Petersburg); Supporting Institution: Nuclear Physics Institute (Gatchina, Leningrad reg.); Collaborators: NRG an ECN KEMA company (Petten, Netherlands), Universitat Hannover / Zentrum fur Strahlenschutz und Radioekologie (ZSR) (Hannover, Germany), Universite catholique de Louvain/Institut de physique nucleaire (Louvain-la-Neuve, Belgium), University of Uppsala / Department of Neutron Research (Uppsala, Sweden), University of Uppsala / Svedberg Laboratory (Uppsala, Sweden); Duration: 36 months; Funding parties: EU

3193 Geological, Hydrogeological and Radioecological Qualification of Sites for Safe Disposal of Toxic and Radioactive Wastes in Cambrian and Vendian Clays in the North-West Region of Russia

Project Manager: Pankina E B; Leading Institution: Research Institute of Technology (Sosnovy Bor, Leningrad reg.); Supporting Institution: IGE (Institute of Geocology) / Saint-Petersburg Branch (St Petersburg); Collaborators: University of Minnesota / Minnesota Geological Survey (St Paul, MN, USA), [Individual specialist]; Duration: 36 months; Funding parties: CA

3201 Elements for Micro- and Nanoelectromechanics Based on the Whiskers of Quasi One-Dimensional Conductors and HTSCs

Project Manager: Pokrovskii V Ya; Leading Institution: Russian Academy of Sciences / Institute of Radioengineering and Electronics (Moscow); Supporting Institution: Institute of General Physics named after A.M. Prokhorov RAS / Natural Sciences Center (Moscow); Collaborators: CNRS / Universite Joseph Fourier / Institut National Polytechnique de Grenoble / Centre de Recherches sur les Tres Basses Temperatures (Grenoble, France), College of Engineering & Science (Clemson, SC, USA), Cornell University / Department of Physics (Ithaca, NY, USA), TU Delft / Kavli Institute of Nanoscience (Delft, The Netherlands), University of Kentucky / Department of Physics & Astronomy (Lexington, KY, USA); Duration: 36 months; Funding parties: EU

3209 Diagnostics and Analyser of Respiratory Organs Inflammation Activity at Chronic Obstructive Pulmonary Disease, Bronchial Asthma and Tuberculosis Using Determination of Hydrogen Peroxide Content in Biosubstrates

Project Manager: Kalinovskiy V V; Leading Institution: VNIIEF (Sarov, N. Novgorod reg.); Supporting Institutions: Central Tuberculosis Research Institute (Moscow), Moscow State University / Department of Chemistry (Moscow), Joint Stock Company PRACTIC-NC (Zelenograd, Moscow); Collaborators: Alfred Wegener Institute for Polar and Marine Research (Bremerhaven, Germany), Arizona State University / Department of Chemical and Materials Engineering (Tempe, AZ, USA), Department of Chemistry (Cincinnati, OH, USA), Deutsches Zentralkomitee zur Bekämpfung der Tuberkulose (Berlin, Germany), Queen Mary, University of London / Interdisciplinary Centre in Biomedical Materials (London, UK), Universita Degli Studi di Roma "Tor Vergata" (Rome, Italy), Universitat de Barcelona / Department de Medecina (Barcelona, Spain); Duration: 30 months; Funding parties: EU

3225 Numerical Model Development for Phenomena Going Along with Karst Formation and Evolution Processes

Project Manager: Deryugin Yu N; Leading Institution: VNIIEF (Sarov, N. Novgorod reg.); Supporting Institution: Kazan State University / Scientific Research Institute of Mathematics and Mechanics (Kazan, Tatarstan); Collaborators: Centro di Ricerca, Sviluppo e Studi Superiori in Sardegna (Pula, Sardinia, Italy), Lawrence Berkeley National Laboratory / Earth Sciences Division (Berkeley, CA, USA); Duration: 24 months; Funding parties: EU

3234 Development of High-Performance Oxygen-Conducting Membranes and Compact Pure Syn-Gas Generators on Their Base

Project Manager: Khristolyubov A P; Leading Institution: VNIIEF (Sarov, N. Novgorod reg.); Supporting Institutions: Boreskov Institute of Catalysis (Novosibirsk, Novosibirsk reg.), Karpov Institute of Physical Chemistry (Moscow), Belarussian State University / Institute of Physical Chemical Problems (Minsk, Belarus);

Collaborators: CNRS / Institute de Recherches sur la Catalyse (Paris, France), University of Connecticut / School of Engineering (Storrs, CT, USA); Duration: 24 months; Funding parties: EU

3236 Adaptation of System Laser Ignition Components for the Chamber of Combustion of the Rocket Engine

Project Manager: Guterman V Yu; Leading Institution: Chemical Automatics Engineering Design Corp. (Voronezh, Voronezh reg.); Supporting Institution: Keldysh Research Center (Moscow); Collaborators: Cranfield University / School of Engineering (Cranfield, Beds, UK), Snecma Moteurs (Paris, France), Stork Group/Stork Product Engineering B. V. (Amsterdam, Netherlands); Duration: 24 months; Funding parties: EU

3238 Polymer Composite Materials Reinforced with Diamonds Nanoparticles

Project Manager: Kulichikhin V G; Leading Institution: A.V. Topchiev Institute of Petrochemical Synthesis (Moscow); Supporting Institutions: NIKIMT (Institute of Assembly Technology) (Moscow), MISIS (Steel and Alloys) (Moscow); Collaborator: University of Missouri (St Louis, MO, USA); Duration: 36 months; Funding parties: US

3245 Bionanotechnological Analysis of Affine Surfaces

Project Manager: Ignatov S G; Leading Institution: State Research Center for Applied Microbiology (Obolensk, Moscow reg.); Supporting Institution: ITEF (ITEP) (Moscow); Collaborators: Battelle Energy Alliance LLC (BEA) / Idaho National Laboratory (Idaho Falls, ID, USA), Clarkson University (Potsdam, NY, USA), Johannes Kepler Universitat Linz / Institute for Biophysics (Linz, Austria), North Carolina State University / Department of Chemistry (Raleigh, NC, USA), Technische Universitat Kaiserslautern (Kaiserslautern, Germany), University of Groningen / Department of BioMedical Engineering (Groningen, Netherlands); Duration: 36 months; Funding parties: EU

3254 Development of Novel Techniques for NO₂ Column Retrieval and Estimate of its Radiative Forcing from Data of Existent Ground-Based Measurement Networks

Project Manager: Rublev A N; Leading Institution: Kurchatov Research Center / Institute for Molecular Physics (Moscow); Supporting Institutions: Keldysh Institute of Applied Mathematics (Moscow), Moscow State University (Moscow), Institute of Atmospheric Physics (Moscow); Collaborators: CNRS / Ecole Polytechnique / Laboratoire de Meteorologie Dynamique (Palaiseau, France), Meteorological Service of Canada (Downsview, ON, Canada), NASA / Goddard Space Flight Center (Greenbelt, MD, USA), Pacific Northwest National Laboratory (Richland, WA, USA), Universitat Bremen / Institut fur Umweltphysik (Bremen, Germany); Duration: 36 months; Funding parties: EU

3272 New approaches to designing anti-HIV compounds targeting late steps of HIV-1 replication

Project Manager: Bourchteine M E; Leading Institution: Ivanovsky Institute of Virology (Moscow); Supporting Institutions: Institute of Immunological Engineering (Lyubuchany, Moscow reg.), Health Research & Development Foundation (Moscow); Collaborators: McGill University / McGill University AIDS Centre (Montreal, QC, Canada), University of Massachusetts / Medical School (Worcester, MA, USA); Duration: 36 months; Funding parties: US

A-1232 Synthesis and Investigations of Binary and Multicomponent Metal-Oxide Semiconductors for Manufacture of Chemical Nanosensors and Electronic Nose Arrays for Monitoring of Different Toxic Gases in Environment and Civilian Defense

Project Manager: Aroutonian V M; Leading Institution: Yerevan State University (Yerevan, Armenia); Collaborators: Aligent Technologies, Inc. (Fort Collins, CO, USA), Auburn University / Materials Research and Education Center (Auburn, AL, USA), CEA / DSM / DRECAM/CEN Saclay (Saclay, France), Heinrich Heine Universitat Dusseldorf / Institut fur Physik der Kondensierten Materie (Dusseldorf, Germany), Institute of Chemical Technology (Prague, Czechia), Korea Institute of Energy Research (Yusong-gu, Korea), Kyushu University (Fukuoka, Japan), Nagasaki University (Nagasaki, Japan), National Renewable Energy Laboratory (Golden, CO, USA), Synopsys, Inc. (Mountain View, CA, USA), The Inje University (Gimhae, Korea), Universita Degli Studi di Roma "Tor Vergata" (Rome, Italy), University of Uppsala / Department of Engineering Sciences, Solid State Physics (Uppsala, Sweden); Duration: 36 months; Funding parties: EU

A-1241 Monograph "Non-Linear Quantum Few-State Models"

Project Manager: Ishkhanyan A M; Leading Institution: Engineering Center "Mashtotc" (Ashtarak-2, Armenia); Collaborators: Institute for Molecular Science (Okazaki, Japan), Universite de Metz / Laboratoire de Physique Moleculaire et des Collisions (Metz, France), University of Connecticut (Storrs, CT, USA), University of Turku / Department of Physics (Turku, Finland); Duration: 24 months; Funding parties: EU

A-1249 Self Propagating High Temperature Synthesis of Hydrogen Content Materials with Maximum High Content of Hydrogen

Project Manager: Dolukhanyan S K; Leading Institution: Institute of Chemical Physics (Yerevan, Armenia); Supporting Institution: Yerevan Physics Institute (Yerevan, Armenia); Collaborators: National Research Council Canada / Neutron Program for Materials Research (Chalk River, ON, Canada), Universite du Quebec a Trois-Rivieres / Institut de Recherche sur l'hydrogene (Trois-Rivieres, QC, Canada); Duration: 36 months; Funding parties: CA

B-1206 Development of Effective Antiviral Agents of a New Type

Project Manager: Shadyro O I; Leading Institution: Belarussian State University (Minsk, Belarus); Supporting Institution: Belarussian Research Institute for Epidemiology and Microbiology (Minsk, Belarus); Collaborators: Carleton University (Ottawa, ON, Canada), Robert-Koch-Institute (Berlin, Germany), Universitat Leipzig / Institut fuer Medizinische Physik und Biophysik (Leipzig, Germany), York University (Toronto, ON, Canada); Duration: 36 months; Funding parties: EU

G-1153 Computer Program for Strength Analysis of Alkali-Aggregate Reaction-Affected Concrete Dams

Project Manager: Motsonelidze A N; Leading Institution: Tbilisi Architectural and Civil Engineering Institute (Tbilisi, Georgia); Collaborators: Acres International Limited (Niagara Falls, Canada), Centro Elettrotecnico Sperimentale Italiano (Milan, Italy), Loughborough University (Loughborough, UK), Purdue University / School of Civil Engineering (West Lafayette, IN, USA); Duration: 24 months; Funding parties: EU

G-1217 Vortices, Waves, Fronts in Rotating Fluids: Adjustment, Stability, Frontogenesis

Project Manager: Chagelishvili G D; Leading Institution: Abastumani Astrophysical Observatory (Tbilisi, Georgia); Collaborators: Observatoire de Paris (Meudon, France), University of Alberta (Edmonton, AB, Canada), University of Texas / Institute for Fusion Studies (Austin, TX, USA); Duration: 36 months; Funding parties: EU US

G-1246 Production and Usage of Polyvalent, Polycomponent Clinical - Prophylactic Bacteriophage Preparation for Treatment of Diseases Caused by E. coli, Salmonella and Shigella

Project Manager: Saralidze D; Leading Institution: Biochimfarm Joint Stock Company (Tbilisi, Georgia); Collaborator: Universitat de Barcelona / Facultat de Farmacia (Barcelona, Spain); Duration: 36 months; Funding parties: EU

K-1203 High-Sensitive Ion Technology for Measurements of Low Concentrations of Hydrogen Heavy Isotopes

Project Manager: Bimurzaev S B; Leading Institution: National Nuclear Center of the Republic of Kazakstan / Institute of Nuclear Physics (Almaty, Kazakstan); Collaborators: Argonne National Laboratory (ANL) (Argonne, IL, USA), Middlesex University / School of Health and Social Sciences (London, UK); Duration: 36 months; Funding parties: CA

K-1265 Experimental Study of the Processes at the Corium Melt Retention in the Reactor Pressure Vessel

Project Manager: ; Leading Institution: National Nuclear Center of the Republic of Kazakstan / Institute of Atomic Energy (2) (Kurchatov, Kazakstan); Collaborators: CEA / DEN (Gif-sur-Yvette Cedex, France), Forschungszentrum Karlsruhe GmbH (Karlsruhe, Germany), Forschungszentrum Rossendorf (Rossendorf, Germany), IRSN - Institut de Radioprotection et de Surete Nucleaire (Fontenay aux Roses, France); Duration: 36 months; Funding parties: EU

K-1266 The Metal Block Nanostructured Neutralizers of the Motor Transport Exhaust Gases

Project Manager: Dosumov K D; Leading Institution: Institute of Organic Catalysis and Electrochemistry (Almaty, Kazakstan); Supporting Institution: Pavlodar Chemical Plant (Pavlodar, Pavlodar reg., Kazakstan); Collaborator: Engelhard Corporation (Iselin, NJ, USA); Duration: 36 months; Funding parties: US

KR-1281 Geodynamics of Talas-Fergana Fault, Tien Shan and Natural Disasters on the Territory of Central Asia

Project Manager: Mamyrov E; Leading Institution: Institute of Seismology (Bishkek, Kyrgyzstan); Supporting Institution: Institute of Dynamics of the Geosphere (Moscow); Collaborators: Istituto Nazionale di Geofisika e Vulcanologia (Rome, Italy), Stanford University / Department of Geological and Environmental Sciences (Stanford, CA, USA), Universita degli studi di Milano-Bicocca / Department of Geological Science and Geotechnologies (Milan, Italy); Duration: 36 months; Funding parties: EU

KR-993.2 Development of the Highly Effective Biological Means for the Optimization of the Nutrition and the Protection of Plants

Project Manager: Kydralieva K A; Leading Institution: National Academy of Sciences of Kyrgyzstan / Institute of Chemistry and Chemical Technology (Bishkek, Kyrgyzstan); Supporting Institution: JSC Biochimash (Moscow); Collaborators: University of Saskatchewan (Saskatoon, SK, Canada), Washington State University (Pullman, WA, USA); Duration: 36 months; Funding parties: US CA

T-1257 Study of Etiological Structure of Acute Intestinal Diseases, Activators Behavior and Optimization of Preventive and Anti-Epidemiological Activities during Such Infections in Republic of Tajikistan

Project Manager: Zakirova N S; Leading Institution: Republican Center for State Sanitary Epidemiological Control (Dushanbe, Tajikistan); Collaborator: Walter Reed Army Institute of Research (Rockville, MD, USA); Duration: 36 months; Funding parties: US

2. Project Development Grants

3170 Development of Method Electrophysics Analysis for Microbial Cell - Bacteriophage Interaction

Project Manager: Ignatov O V; Leading Institution: Institute of Biochemistry and Physiology of Plants and Microorganisms (Saratov, Saratov reg.); Supporting Institution: State Research Center for Applied Microbiology (Obolensk, Moscow reg.); Collaborators: Auburn University / Materials Research and Education Center (Auburn, AL, USA), New Mexico Institute of Mining and Technology (Albuquerque, NM, USA); Duration: 18 months; Funding parties: US

3219 The Molecular-Genetic Polymorphism of Tuberculosis Pathogen of Human, Cattle, Pigs and Poultry and Studying of Channels of Infection in Live Farming

Project Manager: Faizov T H; Leading Institution: All-Russian Research Veterinarian Institute (Kazan, Tatarstan); Supporting Institution: Central Tuberculosis Research Institute (Moscow); Collaborators: Canadian Food Inspection Agency / Mycobacterial Diseases Centre of Expertise (Ottawa, ON, Canada), Charite Campus Benjamin Franklin (Berlin, Germany); Duration: 36 months; Funding parties: CA

3. Reallocation of Funds for Earlier Approved Projects

1861 Creation of the Universal Gas Polarized Target for the Investigation of the Nuclear Polarization in the Molecules of Hydrogen (Deuterium) at the Different Interactions with the Target's Walls

Project Manager: Chernov N N; Leading Institution: Nuclear Physics Institute (Gatchina, Leningrad reg.); Collaborator: Universitat zu Koln / Institut fur Kernphysik (Koln, Germany); Duration: 36 months; Funding parties: EU Other

2108 Noncontact System for Dynamic Monitoring of Objects

Project Manager: Gurov I P; Leading Institution: Saint Petersburg State Institute of Fine Mechanics and Optics (St Petersburg); Supporting Institution: VNIITF (Snezhinsk, Chelyabinsk reg.); Collaborators: Consiglio Nazionale delle Ricerche / Istituto di Cibernetica (Arco Felice, Italy), De Montfort University (Leicester, UK), Fachhochschule Aalen (Aalen, Germany), Istituto Nazionale di Ottica Applicata (Florence, Italy), Ministry of International Trade and Industry / Agency of Industrial Science and Technology / Mechanical Engineering

Laboratory (Tsukuba, Japan), University of Oulu (Oulu, Finland), Zygo Corporation (Middletown, CT, USA); Duration: 24 months; Funding parties: EU JP

3119 Design-Theoretical and Experimental Research on Justification of Safe Use of Dispersive Fuel in a Nuclear Reactor Core

Project Manager: Mamaev M I; Leading Institution: VNIIEF (Sarov, N. Novgorod reg.); Collaborator: General Atomics (San Diego, CA, USA); Duration: 36 months; Funding parties: US CA

3131 Development of Electrothermal Technology of Coating

Project Manager: Shkolnikov E Ya; Leading Institution: MIFI (Moscow); Supporting Institution: VNIIEF (Sarov, N. Novgorod reg.); Collaborators: Drexel University / Center for the Plasma Processing of Materials (Philadelphia, PA, USA), GTV mbH (Betzdorf, Germany), High-Energy Frequency Tesla Inc. (Ottawa, ON, Canada), Korea Electrotechnology Research Institute (Gyeongsan, Korea), Texas Technical University / Pulsed Power Laboratory (Lubbock, TX, USA); Duration: 30 months; Funding parties: CA

3189 The Development of Composition and Technology of Amendment Production for Rehabilitation of Soils Contaminated by Radionuclides and Assessment of Their Application Efficiency

Project Manager: Konoplev A V; Leading Institution: Scientific & Production Association "Typhoon" (Obninsk, Kaluga reg.); Supporting Institutions: Kurchatov Research Center (Moscow), Joint Institute of Energy and Nuclear Research - Sosny (Minsk, Sosny, Belarus); Collaborators: Katholieke Universiteit / Department Interfasechemie (Heverlee, Belgium), Riso National Laboratory / Radiation Research Department (Roskilde, Denmark), SCK-CEN (Mol, Belgium), US Environmental Protection Agency (Washington, DC, USA), Utrecht University / Faculty of Geosciences (Utrecht, Netherlands); Duration: 36 months; Funding parties: EU CA

G-1110 Development of a Package of Technologies for Commercial Production of Boron Isotopes-Based Materials and Items

Project Manager: Shalamberidze S O; Leading Institution: National High Technology Center of Georgia (Tbilisi, Georgia); Collaborator: Spectra Gases (Branchburg, NJ, USA); Duration: 27 months; Funding parties: EU Other