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## Projects Approved for Funding by ISTC Governing Board at the 35th Funding Session

### 1. Newly Approved Projects

0888 Computer-Aided Prediction of Chemical Ecotoxicity on the basis of Quantitative Structure-Activity Relationships with the Use of Physico-Chemical Descriptors, Including H-bond Parameters

Project Manager: Raevsky O A; Leading Institution: Institute of Physiologically Active Substances (Chernogolovka, Moscow reg.); Collaborator: US Environmental Protection Agency / National Exposure Research Laboratory (Las-Vegas, NV, USA); Duration: 36 months; Funding parties: US

2598 The Rocket Engine Jet Nozzle with High-Altitude Characteristics

Project Manager: Semenov V V; Leading Institution: MAI (Moscow Aircraft Institute) (Moscow); Supporting Institution: NIIIT (Pulse Techniques) (Moscow); Collaborators: Snecma Moteurs (Paris, France), [Individual specialist]; Duration: 30 months; Funding parties: EU

2754 Reorganization of Bacterial and Cell Culture Collection to Study Infectious Diseases in Humans and Animals

Project Manager: Zhirkov V M; Leading Institution: State Research Center for Applied Microbiology (Obolensk, Moscow reg.); Duration: 36 months; Funding parties: US

2841 Retrospective Evaluation of Radioactive Discharges into the Tcha River on the Basis of Radioecological Monitoring and Dosimetric Modeling Data

Project Manager: Vorobiova M I; Leading Institution: Ural Research Center of Radiation Medicine (Chelyabinsk, Chelyabinsk reg.); Supporting Institutions: NPO Mayak (Oziorsk, Chelyabinsk reg.), VNIITF (Snezhinsk, Chelyabinsk reg.), Institute of Plants & Animals Ecology (Ekaterinburg, Sverdlovsk reg.); Collaborators: Forschungszentrum für Umwelt und Gesundheit GmbH (GSF) / Institut für Strahlenschutz (Neuherberg, Germany), National Radiological Protection Board (Chilton, UK), Pacific Northwest National Laboratory / Environmental Technology Division (Richland, WA, USA), SENES Oak Ridge Inc. / Center for Risk Analysis (Oak Ridge, TN, USA), The University of Utah / Radiobiology Division (Salt Lake City, UT, USA); Duration: 24 months; Funding parties: US

2866 Application of Multi-Frequency Polarimetric Synthetic Aperture Radar (SAR) at Decimeter (L, P) and Meter (VHF) Bands for Surface and Subsurface Sensing of Soils and Vegetation Cover

Project Manager: Kalinkevich A A; Leading Institution: Russian Academy of Sciences / Institute of Radioengineering and Electronics (Moscow); Collaborators: Deutsches Zentrum für Luft- und Raumfahrt e.V. / Institute of Radio Frequency Technology and Radar Systems (Wessling, Germany), Deutsches Zentrum für Luft- und Raumfahrt e.V. / Microwaves and Radar Institute (Wessling, Germany), Forschungsinstitut fuer Hochfrequenzphysik und Radartechnik / Forschungsgesellschaft fuer Angewandte Naturwissenschaften e. V. (Wachtberg, Germany), Helsinki University of Technology (Helsinki, Finland), NASA / George C. Marshall Space Flight Center (Huntsville, AL, USA), Niigata University (Niigata, Japan), TU Delft / International Research Centre for Telecommunications-Transmission and Radar (Delft, The Netherlands), University of Kansas / Radar Systems and Remote Sensing Laboratory (Lawrence, KS, USA), US Department of Commerce / National Oceanic and Atmospheric Administration / Environmental Technology Laboratory (Boulder, CO, USA); Duration: 36 months; Funding parties: EU

2880 Development and Design of Start Detector for Trigger and Time-of-Flight Systems for the ALICE Experiment at CERN, LHC

Project Manager: Karavicheva T L; Leading Institution: Russian Academy of Sciences / Institute of Nuclear Research (Moscow); Supporting Institutions: TsKBM (St Petersburg), MIFI (Moscow), Kurchatov Research Center (Moscow), NIIIT (Pulse Techniques) (Moscow); Collaborators: CERN (Geneva, Switzerland), University of Jyväskylä (Jyväskylä, Finland); Duration: 24 months; Funding parties: EU

2911 Development of Technology of Conversion to the Safe Condition of Non-Drained Residues of Sodium Radwaste in Fast Reactors  
 Project Manager: Bagdassarov Yu E; Leading Institution: FEI (IPPE) (Obninsk, Kaluga reg.); Collaborators: Argonne National Laboratory (ANL) / West (Idaho Falls, ID, USA), CEA / DRN / DER / CEN Cadarache (Cadarache, France); Duration: 24 months; Funding parties: EU

2955 The Catalytic Technologies Based on Ensembles of Immobilized Nanoparticles  
 Project Manager: Smirnov V V; Leading Institution: Moscow State University / Department of Chemistry (Moscow); Supporting Institutions: Russian Academy of Sciences / Physical Technical Institute (St Petersburg), Karpov Institute of Physical Chemistry (Moscow), State Research Institute of Organic Chemistry and Technology (Moscow); Collaborators: Princeton University / School of Engineering and Applied Science (Princeton, NJ, USA), Texas A&M University / Department of Chemical Engineering (College Station, TX, USA), Universität Hannover / Institute of Physical Chemistry and Electrochemistry (Hannover, Germany), University of Bremen / Institute of Applied and Physical Chemistry (Bremen, Germany); Duration: 36 months; Funding parties: EU

2968 Development of the Scaled Methods for Depositing Heteroepitaxial Doped Diamond Films. Creation and Investigation of Devices Based on the Films  
 Project Manager: Pal' A F; Leading Institution: TRINITI (Troitsk, Moscow reg.); Supporting Institutions: Moscow State University / Institute of Nuclear Physics (Moscow), All-Russian Scientific Research Institute of Non-Organic Materials named after A. Bochvar (Moscow); Collaborators: Intel Corporation (Hillsboro, OR, USA), North Carolina State University (Raleigh, NC, USA), Teer Coating Ltd. (Hartlebury, UK), University of Bristol / School of Chemistry (Bristol, UK); Duration: 36 months; Funding parties: EU US RK

2973 Development of Conceptual Proposal on Design of Fast Nuclear Gas Cooled Reactor Facility FBGR-1000 with Using of Light Water Reactors and Micro-Coating Fuel Technologies  
 Project Manager: Ivanov E A; Leading Institution: Kurchatov Research Center (Moscow); Collaborators: CEA / DRN / DER / CEN Cadarache (Cadarache, France), Japan Nuclear Cycle Development Institute / O-arai Engineering Center (Ibaraki, Japan); Duration: 18 months; Funding parties: EU

2976 Study for Possible Design of Optical and Magnetic Memory with Super-High Recording Density with the Use of Femtosecond Laser Radiation and Atomic-Force Microscopy  
 Project Manager: Stepanov A N; Leading Institution: Russian Academy of Sciences / Institute of Applied Physics (N. Novgorod, N. Novgorod reg.); Supporting Institutions: VNIIEF (Sarov, N. Novgorod reg.), Institute of Physics of Microstructures (N. Novgorod, N. Novgorod reg.); Collaborators: Laser Zentrum Hannover e.v. (Hannover, Germany), Los Alamos National Laboratory (Los-Alamos, NM, USA), Universität Würzburg / Physikalisches Institut (Würzburg, Germany); Duration: 24 months; Funding parties: US RK

2990 Complex Ground Based Geophysical Observations Coordinated with Satellite DEMETER Investigations  
 Project Manager: Molchanov O A; Leading Institution: Institute of Physics of the Earth (Moscow); Supporting Institutions: Institute of the Geophysical Services (Obninsk, Kaluga reg.), International Agency on Complex Monitoring of the Earth, Natural Disasters and Technogenic Catastrophes (Moscow); Collaborators: Chiba University / Marine Biosystems Research Center (Chiba, Japan), CNRS / Centre d'etude des Environnements Terrestre et Planétaires (Sant-Maur, France), CNRS / Laboratoire de Physique et Chimie de L'Environnement (Orleans, France), Institute of Experimental Physics (Kosice, Slovakia), Tokai University / Earthquake Prediction Research Center (Tokai, Japan), Università Degli Studi di Bari (Bari, Italy), Université Paul Sabatier / Centre d'Etude Spatiale des Rayonnements (Toulouse, France), University of Electro-Communications (Tokyo, Japan), University of Maryland at College Park / Department of Physics / East-West Space Science Center (College Park, MD, USA), University of Sheffield / Department of Automatic Control and Systems Engineering (Sheffield, UK); Duration: 36 months; Funding parties: EU JP

3072 Modelling of Brittle and Ductile Fracture and Prediction of Irradiation Damage Effect on Fracture Toughness Properties of Steels for Reactor Pressure Vessels on the Basis of Local Approach  
 Project Manager: Margolin B Z; Leading Institution: TsNIIKM PROMETEIY (Construction Materials) (St Petersburg); Collaborators: EDF (Paris, France), Framatome ANP GmbH (Erlangen, Germany), Serco Assurance (Warrington, UK); Duration: 36 months; Funding parties: EU

3079 Development of a Web Site for Distribution and Commercialization of Scientific and Technological Projects of the Russia Nuclear Cities  
 Project Manager: Ilkaeva L A; Leading Institution: VNIIEF (Sarov, N. Novgorod reg.); Collaborator: Landau Network - Centro Volta (Como, Italy); Duration: 18 months; Funding parties: EU

- 3085 Investigation of Steady and Unsteady Phenomena in Transonic Wind Tunnels with Slotted Walls to Improve a Complex Technique for Testing Highly-Economical Civil Aircrafts  
Project Manager: Bosnyakov S M; Leading Institution: Central Aerodynamic Institute (Zhukovsky, Moscow reg.); Collaborators: Aérospatiale Airbus (Toulouse, France), European Transonic Windtunnel (Köln, Germany); Duration: 24 months; Funding parties: EU
- 3086 Study of Applicability of Biochip Technology for Individual Genetic Characterization in Forensic Genetic Testing and Formation of DNA Databases  
Project Manager: Lysov Yu P; Leading Institution: Engelhardt Institute of Molecular Biology (Moscow); Supporting Institutions: Forensic Science Center of the Ministry of Home Affairs of the Russian Federation (Moscow), Institute of Genetics and Selection of Industrial Microorganisms (Moscow); Collaborator: US Department of Energy (Washington, DC, USA); Duration: 6 months; Funding parties: US
- 3090 Developing, Creating and Beam Testing Of The Calorimetric Modules for the New Generation Colliders  
Project Manager: Tarkovsky E I; Leading Institution: ITEF (ITEP) (Moscow); Supporting Institutions: MIFI (Moscow), NII Pulsar (Moscow); Collaborator: DESY (Hamburg, Germany); Duration: 24 months; Funding parties: EU
- 3093 Balloon Research in the Stratosphere for Study of Chemical and Dynamical Processes Influencing the Climate Change and for Validation of Satellite Observations  
Project Manager: Lukyanov A N; Leading Institution: Central Aerological Observatory (Dolgoprudny, Moscow reg.); Supporting Institution: VNIIEF (Sarov, N. Novgorod reg.); Collaborators: JAXA / Earth Observation Research Center (EORC) (Tokyo, Japan), Kyoto University / Institute for Sustainable Humanosphere (Kyoto, Japan), National Institute for Environmental Studies (Tsukuba, Japan); Duration: 36 months; Funding parties: JP
- 3095 Stratosphere-Troposphere Exchange in Extratropical Regions: Observation and Analysis  
Project Manager: Yushkov V A; Leading Institution: Central Aerological Observatory (Dolgoprudny, Moscow reg.); Supporting Institution: MIFI (Moscow); Collaborators: Alfred Wegener Institute for Polar and Marine Research (Bremerhaven, Germany), Consiglio Nazionale delle Ricerche / Istituto di Scienze dell'Atmosfera e del Clima (Bologna, Italy), Finnish Meteorological Institute (Helsinki, Finland), Johann Wolfgang Goethe-Universität / Institut für Meteorologie und Geophysik (Frankfurt, Germany), Lancaster University (Lancaster, UK), Service d'Aéronomie (Verrières le Buisson, France); Duration: 36 months; Funding parties: EU
- 3098 High-Effective Methods of Investigation and Modelling of the Barrier Discharges for Optimization of Plasma Display Panels and Excimer Lamps  
Project Manager: Zvereva G N; Leading Institution: Vavilov State Optical Institute (GOI) (St Petersburg); Supporting Institutions: VNIIEF (Sarov, N. Novgorod reg.), Kyrgyz-Russian Slavonic University (Bishkek, Kyrgyzstan); Collaborators: CNRS / Centre de Physique des Plasmas et de leurs Applications de Toulouse (Toulouse, France), Hokkaido University / Graduate School of Engineering (Sapporo, Japan), Nagoya Institute of Technology (Nagoya, Japan), SFD Research Corporation (Huntsville, AL, USA), Technische Universität München / Physik Dep. E-12 (Garching, Germany), University of Minnesota / Department of Mechanical Engineering (Minneapolis, MN, USA), West Virginia University / Department of Physics (Morgantown, WV, USA); Duration: 36 months; Funding parties: EU JP
- A-1165 Research and Development of LuAP Scintillation Crystals for New Generation Positron Emission Tomographs (PET)  
Project Manager: Petrosyan A G; Leading Institution: Institute for Physical Research (Ashtarak-2, Armenia); Collaborators: CERN / European Laboratory for Particle Physics (Geneva, Switzerland), CNRS/Université de Claude Bernard-Lyon 1 / Laboratoire de Physico-Chimie des Matériaux Luminescents (Lyon, France); Duration: 30 months; Funding parties: EU
- A-1167 The New Technology for Production of Better Quality Perlite Fillers and Materials on Its Basis  
Project Manager: Gurgenyanyan N V; Leading Institution: NPF "Stone & Silicates" (Yerevan, Armenia); Collaborators: Clemson University / School of Materials Science and Engineering (Clemson, SC, USA), Geosciences Management Institute, Inc. (Boulder City, NV, USA), Institute of Geology and Mineral Exploration / LITHOS Quality Control Laboratory of Ornamental Stones (Pegonia, Greece), International Bureau for Environmental Studies (Brussels, Belgium), National and Kapodistrian University of Athens / Department of Geology (Athens, Greece), National Centre for Scientific Research "Demokritos" / Institute of Materials Science (Attika, Greece), National Research Council / Institute of Science and Technology for Ceramics (Faenza, Italy), National Technical University of Athens / Department of Mining Engineering and Metallurgy (Athens, Greece), National Technical University of Athens / Laboratory of Heterogeneous Mixtures and Combustion Systems (Athens, Greece), Oak Ridge National Laboratory / Nuclear Science and

Technology Division (Oak Ridge, TN, USA), Technical University of Crete (Chania, Greece), University of Potsdam / Institute für Geowissenschaften (Potsdam, Germany); Duration: 36 months; Funding parties: EU

**A-509.2 Development and Analysis Measures to Improve the Safety, Reliability and Operating Efficiency of Armenian NPP**

Project Manager: Apikyan S A; Leading Institution: Yerevan State University (Yerevan, Armenia); Supporting Institution: Armenian NPP (Metsamor, Armenia); Collaborators: Brookhaven National Laboratory (Upton, NY, USA), Engineering Planning and Management, Inc. (Framingham, MA, USA), University of Central Florida / Department of Physics (Orlando, FL, USA), University of Minnesota / School of Physics and Astronomy (Minneapolis, MN, USA); Duration: 36 months; Funding parties: US

**G-1106 Development and Monitoring of the Long Life Radionuclide Pollution (Sr-90, Cs-137) of Georgia's Plant Cover and Soils**

Project Manager: Urushadze T F; Leading Institution: Sukhumi Institute of Physics and Technology (Tbilisi, Georgia); Collaborators: Institute of Soil Research (Vienna, Austria), Iowa State University of Science and Technology / Department of Agricultural and Biosystems Engineering (Ames, IA, USA), Justus-Liebig-Universität Giessen / Institut fuer Pflanzenernaehrung Fachbereich Agrarwissenschaften Oekotrophologie und Umweltmanagement (Giessen, Germany), Universitat de Barcelona (Barcelona, Spain); Duration: 36 months; Funding parties: EU

**G-1160 Development of New Nanocrystalline Scintillation Materials**

Project Manager: Jalabadze N; Leading Institution: Georgian Technical University (Tbilisi, Georgia); Collaborators: Boston University / College of Engineering (Brookline, MA, USA), Bundesanstalt für Materialforschung und prüfung (Berlin, Germany), CERN / European Laboratory for Particle Physics (Geneva, Switzerland), CTI Molecular Imaging, Inc. (Knoxville, TN, USA), Ecole Nationale Supérieure de Chimie de Paris / Laboratoire de Chimie Appliquée de l'Etat Solide (Paris, France), Institute of Physics (Prague, Czechia), Korea Institute of Machinery&Materials / Department of Materials Technology (Changwon, Korea), McGill University / Montreal Neurological Institute (Montreal, QC, Canada), Stockholm University (Stockholm, Sweden), TU Delft (Delft, The Netherlands); Duration: 36 months; Funding parties: EU

**G-698.2 The New Technology of the Processing of Barite Raw for Purification of Acid Quarry Waters from Ions of Heavy Metals**

Project Manager: Andguladze S N; Leading Institution: Georgian Technical University (Tbilisi, Georgia); Collaborator: San Francisco State University (San Francisco, CA, USA); Duration: 36 months; Funding parties: US

**G-916 Controlled Variable Geometry Rotor with Centrifugal Force Compensation**

Project Manager: Turmanidze R S; Leading Institution: Georgian Technical University (Tbilisi, Georgia); Collaborators: Boeing Defense & Space Group (Philadelphia, PA, USA), Boeing Operations International, Inc. (Moscow), ONERA (Chatillon, France); Duration: 24 months; Funding parties: EU

**G-945.2 Heavy Metals in the Soil and Natural Waters of Mining Regions of Georgia and Development of Methods of Environmental Improvement**

Project Manager: Svanidze Z S; Leading Institution: Georgian Technical University (Tbilisi, Georgia); Collaborators: Iowa State University / College of Engineering (Ames, IA, USA), Mitsui Mineral Development Engineering Co., Ltd. (Tokyo, Japan); Duration: 36 months; Funding parties: US

**K-1128 Experimental and Theoretical Investigations of Proton-and Alpha-Particle-Induced Nuclear Reactions on Light Nuclei for Astrophysics**

Project Manager: Burtebaev N; Leading Institution: National Nuclear Center of the Republic of Kazakhstan / Institute of Nuclear Physics (Almaty, Kazakhstan); Collaborators: Ohio State University / Department of Physics and Astronomy (Athens, OH, USA), University of Colorado at Boulder (Boulder, CO, USA); Duration: 36 months; Funding parties: US

**KR-1101 Assessment of Spatial Techniques of Pollution of the Territory of Kyrgyzstan by Anthrax Agents**

Project Manager: Matkarimov S A; Leading Institution: National Academy of Sciences of Kyrgyzstan / Biotechnology Institution (Bishkek, Kyrgyzstan); Supporting Institution: Republican Center of Quarantine and Especially Dangerous Infections (Bishkek, Kyrgyzstan); Collaborators: Louisiana State University / Department of Geography and Anthropology (Baton Rouge, LA, USA), Louisiana State University / School of Veterinary Medicine (Baton Rouge, LA, USA), Pacific Northwest National Laboratory (Richland, WA, USA); Duration: 24 months; Funding parties: EU US

KR-920 Creation of information-computing complex based on a high-performance cluster to solve scientific and applied problems with a large volume of calculations

Project Manager: Dolgushev V G; Leading Institution: Kyrgyz-Russian Slavonic University (Bishkek, Kyrgyzstan); Collaborators: Technische Universität Dresden / Institut für Kartographie (Dresden, Germany), University of Potsdam / Institute für Geowissenschaften (Potsdam, Germany); Duration: 36 months; Funding parties: EU

T-1145 Investigation of Structure and Physical Properties of Polymers at Compound Exposure

Project Manager: Tuichiev S; Leading Institution: Tajik State National University (Dushanbe, Tajikistan); Collaborator: NanoCarbon Research Institute Ltd. (Chiba, Japan); Duration: 36 months; Funding parties: JP

T-1157 Modeling and Investigation of Characteristics of Solid-State Converters of Neutron Radiation for Increasing the Registration Efficiency of Detectors

Project Manager: Abdushukurov D A; Leading Institution: Physical-Technical Institute (Dushanbe, Tajikistan); Supporting Institution: Tajik State National University (Dushanbe, Tajikistan); Collaborator: Physikalisch-Technische Bundesanstalt (Braunschweig, Germany); Duration: 36 months; Funding parties: EU

T-1163 To Develop the Capability to Build and Operate a Water Balance and Water Quality Model for the Transboundary Basin of the Upper Syr Darya River in Central Asia

Project Manager: Djuraev A A; Leading Institution: Physical-Technical Institute (Dushanbe, Tajikistan); Supporting Institutions: Institute of Chemistry named after V.I.Nikitin, Academy of Sciences, Republic of Tajikistan (Dushanbe, Tajikistan), Institute of Mathematics (Dushanbe, Tajikistan), Institute of Water Problems, Hydro-Power Engineering and Ecology (Dushanbe, Tajikistan), Tajik State National University (Dushanbe, Tajikistan), Main Administration on Hydrometeorology and Environmental Monitoring (Dushanbe, Tajikistan), Khujand State University (Khujand, Tajikistan); Collaborator: Sandia National Laboratories (Albuquerque, NM, USA); Duration: 36 months; Funding parties: US

T-1171 Investigation of Epizootological State of Natural Plague Pestholes and Prevention Measures for Plague Infections among Population of the Republic of Tajikistan

Project Manager: Safarova S P; Leading Institution: Republican Anti-Plague Station (Dushanbe, Tajikistan); Collaborator: University of Texas / Medical Branch (Galveston, TX, USA); Duration: 36 months; Funding parties: US

## 2. Project Development Grants

2970 Novel Disinfectants for Decontamination of the Objects Affected by Anthrax Agents in Biological Terror Acts

Project Manager: Intse S A; Leading Institution: Research Center of Toxicology and Hygienic Regulation of Biopreparations (Serpukhov, Moscow reg.); Supporting Institution: All-Russian Research Veterinarian Institute (Kazan, Tatarstan); Duration: 24 months; Funding parties: US

KR-1154 Information and Analytical Center for Extremely Dangerous Infections in Kyrgyz Republic

Project Manager: Gavrilova O N; Leading Institution: Republican Center of Quarantine and Especially Dangerous Infections (Bishkek, Kyrgyzstan); Supporting Institution: Kyrgyz National University named after J.Balasagyn (Bishkek, Kyrgyzstan); Duration: 36 months; Funding parties: US

T-1082 Inspection of Republican Point of Burial Radioactive Wastage with the Purpose of Development a Technical Decision for its Rehabilitation

Project Manager: Abdushukurov D A; Leading Institution: Physical-Technical Institute (Dushanbe, Tajikistan); Supporting Institutions: Academician Adkhamov Fund (Dushanbe, Tajikistan), Republican Burial Ground (Dushanbe, Tajikistan); Collaborator: Brookhaven National Laboratory (Upton, NY, USA); Duration: 18 months; Funding parties: US

T-1159 Complex Study of Malaria Mosquitoes and Their Natural Enemies, Elaboration of Measures on Regulation of Number of Mosquitoes in Southern Regions of Tajikistan

Project Manager: Khabirov Z; Leading Institution: Institute of Zoology and Parasitology named after E.N.Pavlovsky (Dushanbe, Tajikistan); Collaborator: SWORDE Teppa / Representative Office (Khatlon, Tajikistan); Duration: 36 months; Funding parties: US

## 3. Reallocation of Funds for Earlier Approved Projects

2896 Planar Layered Structures Based on Ferroelectric Films Intended for Applications in Radioelectronic Tunable Devices of Millimeter Wavelength Band

Project Manager: Karmanenko S F; Leading Institution: St Petersburg Electrotechnical University (St Petersburg); Supporting Institution: Holding Company "Leninetz" (St Petersburg); Collaborator: University of Oulu / Microelectronics and Materials Physics Laboratories (Oulu, Finland); Duration: 24 months; Funding parties: EU RK

3015 Fundamental Investigation of the High Current High Repetition Rate Discharges and Achievement of the EUV Radiation Parameters Required for the Next Generation Lithography

Project Manager: Borisov V M; Leading Institution: TRINITI (Troitsk, Moscow reg.); Collaborator: Xtreme Technologies (Göttingen, Germany); Duration: 24 months; Funding parties: EU JP

3020 Development of Oxygen Sensors, Systems of Control of Oxygen Content in Lead Coolants for Test Loops and Facilities

Project Manager: Askhadullin R S; Leading Institution: FEI (IPPE) (Obninsk, Kaluga reg.); Collaborators: CEA / DEN / Département de Technologie Nucléaire (Saint-Paul-lez-Durance, France), ENEA (Bologna, Italy), EURATOM-Ciemat (Madrid, Spain), Forschungszentrum Karlsruhe in der Helmholtz-Gemeinschaft / Institut fuer Hochleistungsimpuls- und Mikrowellentechnik (Eggenstein-Leopoldshafen, Germany), Korea Atomic Energy Research Institute (KAERI) (Yuseong, Korea), Los Alamos National Laboratory (Los-Alamos, NM, USA), Mitsui Engineering & Shipbuilding Co., Ltd. / Nuclear Energy Systems Division (Tokyo, Japan), Ramon Llull University / Institut Quimic de Sarria (Barcelona, Spain), Royal Institute of Technology (Stockholm, Sweden), SCK-CEN (Mol, Belgium); Duration: 24 months; Funding parties: EU CA