

# PRIZES AND GRANTS

The **2006 Pontecorvo Prize** was awarded to Professor A. Suzuki (KEK, Japan) for the discovery of reactor antineutrino oscillations and detection of geantineutrinos in the KamLAND experiment.

The **2006 Bogoliubov Prize for young scientists** was awarded to Aurélien Barrau from the Laboratory for Subatomic Physics and Cosmology, and Joseph Fourier University, Grenoble, for a series of papers on astrophysics and cosmology.

## PRIZEWINNERS OF JINR'S ANNUAL COMPETITION FOR BEST RESEARCH

### I. Theoretical Physics Research

#### *First Prize*

«Theory of Resonances in Multichannel Systems».

Authors: E. Kolganova, A. Motovilov.

#### *Second Prize*

«Theory and Phenomenology of Neutrino Mixing and Oscillations».

Author: S. Bilenky.

### II. Experimental Physics Research

#### *First Prize*

1. «Search for Charge Asymmetry in 3-pion Decays of  $K^\pm$ ».

Authors: S. Balev, E. Goudzovski, V. Kekelidze, V. Kozhukharov, D. Madigozhin, N. Molokanova, Yu. Potrebenikov, P. L. Frabetti, P. Hristov, C. Cheshkov.

2. «Synthesis of Element 118 in the  $^{249}\text{Cf} + ^{48}\text{Ca}$  Reaction».

Authors: Yu. Oganessian, V. Utyonkov, Yu. Lobanov, F. Abdullin, A. Polyakov, I. Shirokovsky, Yu. Tsyganov, A. Voinov, A. Mezentsev, M. Itkis.

#### *Second Prizes*

1. «Study of Mu-atomic and Mu-molecular Processes at the Meson Facilities TRIUMF (Canada) and PSI (Switzerland)».

Authors: V. Bystritsky, V. Stolupin, V. Gerassimov, V. Volnykh, V. Sandukovsky, V. Pavlov, V. Boreiko, J. Woźniak, M. Filipowicz, F. Mulhauser.

2. «Experimental Investigation of Reactions at Beams of  $^6\text{He}$  with Light and Heavy Nuclei (First Experiments at DRIBs)».

Authors: R. Astabatyan, G. Gulbekian, R. Kalpakchieva, A. Kulko, S. Lukyanov, V. Maslov, Yu. Penionzhkevich, N. Skobelev, Yu. Sobolev.

### III. Physics Instruments and Methods

#### *First Prize*

«Photon Methods of Radiation Detection».

Author: Yu. Akimov.

#### *Second Prizes*

1. «Laser-Based Calibration System of Electromagnetic Calorimeters for the Experiments on Relativistic Nuclear Physics at the JINR Nuclotron».

Authors: Yu. Anisimov, A. Livanov, V. Krasnov, S. Kuznetsov, A. Malakhov, J. Kliman, Š. Gmuca, V. Matoušek, M. Morhač, I. Turzo.

2. «Neutron Diffraction Study of the Physical Properties of Rock Samples of the Upper Part of Lithosphere».

Authors: A. Frischbutter, Ch. Janssen, Ch. Scheffzuek, K. Walther, K. Ullemeyer, D. Nikolaev, A. Nikitin, T. Ivankina.

#### **IV. Applied Physics Research**

##### ***First Prize***

«Accelerator Complex IC100 for Applied Research».

Authors: B. Gikal, G. Gulbekian, S. Dmitriev, P. Apel, I. Kolesov, O. Ivanov, V. Mironov, R. Oganessian, S. Paschenko, V. Skuratov.

##### ***Second Prizes***

1. «Methodology and Experimental Investigations of the Stability of Polymers for Particle Accelerators and Detectors».

Authors: A. Astapov, A. Vodopianov, L. Zaitsev,

S. Zaitsev, I. Karpunina, A. Kovalenko, V. Krasnov, A. Maksimov, E. Cherevatenko, V. Chumakov.

2. «Observation and Investigation of Weak Heating of Ultracold Neutrons».

Authors: E. Lychagin, A. Muzychka, G. Nekhaev, A. Strelkov.

##### **Encouraging Prizes**

«A Study of Strange Hadron Production and Fragmentation in Neutrino Interactions in the NOMAD Experiment».

Authors: A. Chukanov, D. Naumov, B. Popov.

#### **GRANTS**

In 2006, a number of research projects of JINR's staff members received a financial support from the following international funds: the US Civilian Research and Development Foundation for the Independent States of the Former Soviet Union (CRDF), the International Science and Technology Centre (ISTC), the International Association for the Promotion of Cooperation with Scientists from the Independent States of the Former Soviet Union (INTAS), Deutsche Forschungsgemeinschaft (DFG, Germany), as well as the Russian Foundation for Basic Research (RFBR) and the RF Ministry of Education and Science Funds to implement their proposals.

The Russian Foundation for Basic Research financed research projects in the following contests: «Project Initiatives» — 65 projects; «Projects for the Initiation and Development of Resources in Information, Computing and Telecommunication» — 3 projects; «Specific Fundamental Research» — 1 project; «Development of the Research Infrastructure» — 1 project; «Immediate Support for the Research Infrastructure» — 1 project; «"Naukograd" Regional Contest — 2004» — 2 projects; «Analytical Reviews» — 1 project; «Publishing Projects» —

2 projects.

RFBR rendered financial support for the following grants: «RFBR and Deutsche Forschungsgemeinschaft, Germany» (RFBR-DFG) — 7 projects; «RFBR and Ministry of Flanders» (RFBR-MF) — 1 project.

RFBR and the Belarussian Republican Foundation for Basic Research (BRFBR) rendered financial support for 5 projects.

RFBR and the Academy of Sciences of Moldova rendered financial support for 2 projects.

The Russian Foundation for Basic Research also rendered JINR financial support to hold 16 scientific conferences in the framework of the contest «Organization of the All-Russian and International Scientific Conferences in the Territory of Russia» and supported 12 JINR staff members in their attending scientific conferences abroad in the framework of the contest «Participation of Russian Scientists in International Events Abroad».

As part of the Programme of the state support for young Russian scientists and leading scientific schools, the Institute obtained 4 grants of the President of the Russian Federation: 3 for scientific schools and 1 for young Russian scientists.