



JOINT INSTITUTE FOR NUCLEAR RESEARCH

XIII International Conference

**SELECTED PROBLEMS OF MODERN
THEORETICAL PHYSICS**

Dubna, June 23-27, 2008



1908-1979

Announcement of SPMTP'08

XIIIth International Conference on "Selected Problems of Modern Theoretical Physics" (SPMTP'08) to be held in Dubna on June 23 - 27, 2008 is dedicated to the 100th anniversary of the birth of D.I. Blokhintsev (1908-1979), an outstanding Russian physicist, organizer, and the first director of the Joint Institute for Nuclear Research (JINR).

The conference is a continuation of the conferences initiated by D.I. Blokhintsev, first, in the form of small workshops on nonlocal and nonlinear field theories. The first workshop of this series was held in Dubna in 1967. Later, these workshops gradually transformed into the representative international conferences on fundamental problems of quantum field theory and advanced mathematical physics.

The total number of participants is expected to be about 180. The conference program will include review talks at plenary sessions and original contributions at several parallel sections. The conference language will be English. One of the sessions will be devoted to the scientific and organizational activity of D.I. Blokhintsev.

The conference topics correspond to those areas of theoretical physics to which D. I. Blokhintsev has made significant contributions and which are extensively developed in the Bogoliubov Laboratory of Theoretical Physics at JINR.

The main topics:

- **Quantum Chromodynamics** (Structure of Hadrons, Generalized and Spin Distribution Functions; Confinement, Chiral Symmetry and Hadronization in QCD; Heavy Quark Physics; Heavy Ion Collisions and Quark Matter)
- **Electroweak Theory and Its Extensions, Unification**
- **Particle Astrophysics and Cosmology**
- **Modern Mathematical Physics** (Quantum Symmetries and Integrable Systems; Supersymmetry; Quantum Gravity and Strings; Non-commutative QFT)

The conference proceedings will be published by the JINR Publishing Department.

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* - to be confirmed

For registration at SPMTP'08, please fill in the enclosed **application form** and send it to Dr. S. Nedelko, or use the **on-line registration** form at <http://theor.jinr.ru/~spmtp/>. Deadline for application and abstract submission is April 15, 2008.

The registration fee is 500 USD for a participant and 350 USD for an accompanying person. It covers the transportation by car from airport to Dubna and back, accommodation in a hotel (6 nights, single room, breakfast), the break refreshments, social program, and a copy of the Proceedings of the Conference. The Organizing Committee is looking for a possibility of providing the financial support for the participants from Russia and other members of the Commonwealth of Independent States (CIS).

Arrival of the participants to Dubna is expected to be on Sunday, June 22, and the departure on Saturday, June 28.

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The up-to-date information concerning the registration and entry visa application , details of accommodation, the program of the conference, and other information will be available at the conference web-site <http://theor.jinr.ru/~spmtp/>.

