



JOINT INSTITUTE FOR NUCLEAR RESEARCH
**XXI INTERNATIONAL BALDIN SEMINAR
ON HIGH ENERGY PHYSICS PROBLEMS**

*RELATIVISTIC NUCLEAR PHYSICS
& QUANTUM CHROMODYNAMICS*

Dubna, Russia, September 10-15, 2012

FIRST BULLETIN

The XXI International Baldin Seminar on High Energy Physics Problems " *Relativistic Nuclear Physics and Quantum Chromodynamics*", organized by the Joint Institute for Nuclear Research will be held from September 10 to 15, 2012 in Dubna, Russia.

The Seminar continues the series of traditional meetings and was established by an outstanding scientist Academician A.M. Baldin (1926-2001). Among conferences that were organized by Alexander Michailovich of special importance is just this series of the International Seminars on High-Energy Physics Problems started in 1969 with M. A. Markov's (1908-1994) support. They have been given an inofficial, somewhat witty, name "Baldin autumn".

SEMINAR TOPICS

- Quantum chromodynamics at large distances
- Relativistic heavy ion collisions
- Hadron spectroscopy, multiquarks
- Cumulative processes
- Structure functions of hadrons and nuclei
- Multiparticle dynamics
- Polarization phenomena, spin physics
- Studies of exotic nuclei in relativistic beams
- Applied use of relativistic beams
- Accelerator facilities: status and perspectives
- New project NICA/MPD (Nuclotron-based Ion Collider fAcility/ Multipurposed Detector) at JINR
- Progress in experimental studies in the high energy centers - JINR, CERN, BNL, JLAB, GSI, etc.

The program is supposed to present reports from the major experimental collaborations and summaries of the major theoretical and experimental advances made in relativistic nuclear physics.

The Seminar programme will consist of review talks and contributions presenting original researches.

The working language of the Seminar is English.

ORGANIZING COMMITTEE

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FURTHER INFORMATION

Further information is available on the Seminar Web Site at <<http://relnp.jinr.ru/ishepp/>>

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