

18th Moscow International School of Physics (43rd ITEP Winter School of Physics)

ITEP Winter School of Physics has a long tradition starting from the year 1973. The School usually attracts many participants from leading research centers and universities. High level of sessions is ensured by invitation of eminent lecturers well known in the international scientific community for their research activity in particular areas. School program is aimed at advanced undergraduate and graduate students and post docs who work or plan to work in theoretical or experimental particle physics. Short selected reports made by the School participants are planned as well.

Since 1994 the ITEP Winter School of Physics became international. Having regard to the importance of the School, Moscow Government Premier has given the ITEP Winter School of Physics a status of the Moscow School. Moscow Government became a General Sponsor of the Moscow School of Physics since 1998.

The School working language is English.

It is planned to have two or three lectures in each half day session. For those participants who wish to present their scientific activity time will be given to make short (about 10-15 min.) reports and best of them will be awarded by diploma. Number of short reports is limited and selection will be made by the Organizing Committee. All lectures and selected reports will be published in the Proceedings of the 18th International Moscow School of Physics in a peer-reviewed journal. Mid-day hours will be free for rest, cross country skiing and other sports.

The School fee amounts to 500 Euro. The sum covers all living expenses during the School, transportation, and excursion. Grants received by the Organizing Committee allow to reduce the fee to 5000 rubles for participants from Russia and FSU countries. There are some limited extra funds to support young participants from Russia and FSU. To apply for the support please contact Organizing Committee.

The number of participants will be limited to 110. To ensure consideration of your application, please fill in the on-line registration form **not later than December 10, 2015**. The [on-line registration form](#) is available at the web page of the School.

School site and date

18th International Moscow School of Physics (43rd ITEP Winter School of Physics) is scheduled for **February 17-24, 2015** and will be held in a hotel situated on a picturesque cite near Moscow (the particular place will be specified later).

Main topics of the School

- Physics at LHC
- Higgs Boson
- Heavy Flavor Physics
- Quarkonium
- Cosmology and Astrophysics
- Hot Topics

Preliminary list of speakers and tentative titles includes

- Dmitry Gorbunov (INR) — Cosmology and particle physics

- Alexander Gorsky (ITEP) — News in Mathematical Physics
- Peter Križan (University of Ljubljana, J. Stefan Institute, Ljubljana) — Heavy Flavours
- Vladimir Lipunov (SAI MSU) — Gamma-ray bursts
- Igor Novikov (Lebedev Physical Institute RAS) — Black holes
- Graham Ross (Oxford, Great Britain) — Beyond the Standard Model
- Paris Sphikas (CERN) — Physics at ATLAS and CMS
- Michail Voloshin (TPI, Minneapolis; ITEP) — Strong interactions and spectroscopy
- Deiter Zeppenfeld (KIT, Karlsruhe) — Higgs Boson

Organizing committee

Chair of the Organizing Committee: Michael Danilov

School Director: Yuri Kiselev

I.Alekseev, D.Besson, S.Blinnikov, A.Bylinkin, M.Danilov, S.Glazyrin, S.Godunov, E.Ilyina, D.Kazakov, Yu.Kiselev, V.Novikov, L.Okun, P.Pakhlov, A.Rostovtsev, D.Svirida, E.Tikhonova, T.Uglov, M.Vysotsky, E. Zhemchugov.

All correspondence and requests for further information concerning the School should be sent to the secretary of the Organizing Committee (itep.ws@gmail.com).

The School is organized by [ITEP](#), [Department of Science, Industrial Policy and Entrepreneurship of Moscow City Government](#), and [National Research Nuclear University “MEPhI”](#).