

Moscow International School of Physics 2024

28 February – 6 March 2024

1st bulletin

The Moscow International School of Physics (MISP) is aimed at advanced students, PhD students and young postdocs working in high-energy physics. The program covers not only experimental and theoretical HEP physics, but also related fields: cosmology, machine learning, and mathematical physics. It should be noted that some preliminary knowledge of the subjects is necessary in order to be able to fully profit from the lecture courses. In addition to lecture courses, time will be allocated for presentations by participants of their research (Young Scientist Forum). The School language is English.

School Site and Date

The Moscow International School of Physics 2024 will be held between 28 February and 6 March 2024 at HSE Study Center “Voronovo”, Moscow.

The School is organized by the P.N. Lebedev Physical Institute of the Russian Academy of Sciences (LPI RAS), National Research University Higher School of Economics (HSE), and Skolkovo Institute of Science and Technology (Skoltech). LLC MESOL is the authorized operator of the School.

Scientific Programme

- “Flavor Physics” by A. Bondar (BINP, Novosibirsk)
- “Primordial Black Holes” by A. Dolgov (Novosibirsk St. U., Novosibirsk and JINR, Dubna)
- “Cosmology and Particle Physics” by D. Gorbunov (INR RAS, Moscow)
- “Standard Model and beyond” by D. Kazakov (JINR, Dubna)
- “Black Holes” by D. Levkov (INR RAS, Moscow)
- “Muon Anomalous Magnetic Moment” by I. Logashenko (BINP, Novosibirsk)
- “Physics at Energy Frontier” by A. Nikitenko (NRC Kurchatov Institute, Moscow and Imperial College, London)
- “Machine Learning for Physicists (Practical Course)” by F. Ratnikov (HSE, Moscow)
For participation in this course a laptop is required (at least one for two participants).
- “Neutrino Physics” by A. Smirnov (ICTP, Trieste)
- “Non-Abelian Strings and Dynamics of Supersymmetric Gauge Theories” by A. Yung (NRC Kurchatov Institute – PNPI, Gatchina)
- Young Scientist Forum with a Poster Session

Program Committee

- M. Danilov (LPI RAS, Moscow) — chair
- D. Gorbunov (INR RAS, Moscow)
- G. Kabatiansky (Skoltech, Moscow)
- D. Kazakov (JINR, Dubna)
- A. Marshakov (Skoltech, Moscow)
- V. Novikov (LPI RAS, Moscow)
- F. Ratnikov (HSE, Moscow)
- M. Vysotsky (LPI RAS, Moscow)

Organizing Committee

- T. Aushev (HSE, Moscow) — chair
- M. Chuyashkin (HSE, Moscow)
- G. Kabatiansky (Skoltech, Moscow)
- S. Polikarpov (LPI RAS, Moscow)
- F. Ratnikov (HSE, Moscow)
- N. Skrobova (LPI RAS, Moscow)
- E. Solovieva (LPI RAS, Moscow)
- T. Uglov (LPI RAS, Moscow and HSE, Moscow)

Young Scientist Forum

Special sessions will be devoted to the presentations of participants' scientific results. The report should be in the form of a brief talk (10+2 minutes) or a poster (portrait A1 or landscape A0). The Program Committee will select talks and posters from the submitted ones for presentation. The most interesting talks will be published in the peer-reviewed journal "Bulletin of the Lebedev Physics Institute" indexed by the Web of Science platform. Authors of the posters, most voted for by the School participants, will receive special prizes.

Social Program

Midday hours before lunch will be dedicated to sports and other kinds of activity. Cross-country ski rent will be available for free.

The School social program will also include a concert.

Important Dates

- 30 September 2023 — start of the registration and abstract submission;
- 25 November 2023 — deadline for the registration and abstract submission;
- 10 December 2023 — Program Committee decision, acceptance notifications;
- 25 December 2023 — deadline for the School fee payments;
- 28 February – 6 March 2024 — the School.

School Fee

The School fee is 490 Euro. It covers participation in all the scientific sessions, the School kit, accommodation, meals, coffee breaks, participation in all social events, and transfer between the School site and Moscow. Participation in a part of the School is not possible. Obtained grants allow the Organizing Committee to reduce the fee for participants from Russia and FSU countries to 2000 Russian rubles.

The payment is to be done with a credit (debit) card or via bank transfer in advance. Detailed instructions about the payment procedure will be given later.

The deadline for the payments for the invited candidates is 25 December 2023. The payment serves as the confirmation of participation and is not refundable. Foreign participants should pay the fee in cash upon arrival.

Visa Information

We kindly ask all participants who need a visa to contact Nataliya Skrobova before 15 December 2023. We strongly recommend applying as early as possible. Please note that the passport must be valid for at least 6 months after the visa expiration date.

Accommodation

The majority of the School events will be held at the HSE Study Center “Voronovo”. The Center is set in scenic surroundings on the edge of an old forest and boasts spacious premises that are fully equipped for both educational and extracurricular events, and also for leisure activities ranging from sports to intellectual games. Wi-Fi is available across the site.

The Study Center comprises of two connected but separate buildings — main and public. The main building offers hotel-style accommodation consisting of fully equipped standard rooms and suites, that have bathrooms, TV sets, and fridges. During the School participants will be accommodated in double rooms.

Transportation

HSE Study Center “Voronovo” is located ~ 70 km to the south of Moscow and has a poor accessibility by the public transport. Organizers will provide free bus shuttles for participants from/to Moscow at the first/last days of the School. Detailed information on transportation will be announced later.

Climate

Moscow region climate is typically continental. Weather in the beginning of March fits well for various winter sports. It is usually sunny. The average temperature is about -2 degrees Celsius though sudden drops of temperature could be expected, as well as thaws, so having proper warm clothes is advised.

Currency and Credit Cards

Most foreign credit cards do not work in Russia nowadays. We recommend to have some cash always with you.

Money exchange (preferably Euro or US dollars) is possible in banks.

Contacts

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