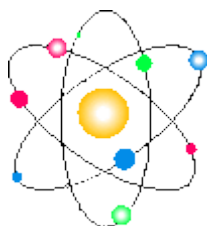


Session Program

24–31 Aug 2025



**The XVI-th International School-Conference "The Actual
Problems of Microworld Physics"**

Parallel session - Main auditorium

Tuesday 26 August

16:00

Parallel session - Main auditorium

Session | Location: Hotel "Forum", main auditorium

16:00–16:30

Capabilities of NICA accelerator complex for applications in radiation materials sciences, biomedicine and microelectronics

Speaker

Олег Белов

16:30–17:00

Neutron detection in a wide energy range: new detector materials and solutions

Speaker

Vitaly Mechinsky

17:00–17:30

Absorption, birefringence and generation of terahertz radiation in layered structures containing Dirac materials

Speaker

Konstantin Batrakov

17:30–17:50

Influence of electron irradiation with 20-MeV energy on superconductivity properties of HTSC- films of 2-d generation

Speaker

Vadim Efimov

17:50–18:10

Irradiation of functional materials based on cobalt oxide and HTSC. Investigation of structural, electronic and magnetotransport properties

Speaker

Екатерина Клевцова

18:40

Wednesday 27 August

16:40

Parallel session - Main auditorium

Session | Location: Hotel "Forum", main auditorium

16:40–17:20

The Quantum Primordial Black Holes in Early Universe, Inflationary Cosmology and Relic Gravitational Waves

Speaker

Alexander Shalyt-Margolin

17:20–18:00

Non-relativistic Approximation for a Spin $3/2$ Particle, in Presence of Electromagnetic and Gravitational Fields

Speaker

Victor Red'kov

18:00–18:20

Theorem of equivalence of inertial and gravitational masses of test bodies

Speaker

Anatoly Serdyukov

18:20–18:40

Estimation of the kinetic parameters of the fractal stellar medium in the Solar neighborhood

Speaker

Mariya Ostashova

18:40–18:55

Strong equivalence theorem of masses of gravitating bodies

Speaker

Maria Serdyukova

19:00