

Session Program

27–31 Oct 2025

**29th International Scientific Conference of Young
Scientists and Specialists (AYSS-2025)**

Theoretical Physics

Monday 27 October

12:00

Theoretical Physics

Session | Location: BLTP, BLTP, Conference hall

12:00–12:15

Effects of higher-order QED corrections in e^+e^- annihilation at future collider energies

Speaker

Uliana Voznaya

12:15–12:30

Relativistic description of tetraquarks with two heavy quarks

Speaker

Ms Elena Savchenko

12:30–12:45

ASSOCIATED PRODUCTION OF J/ψ WITH HADRON JET WITHIN THE PARTON REGGEIZATION APPROACH

Speaker

George Maloletnev

12:45–13:00

Twisted States in Higgs Boson Decay into Fermion Antifermion Pair

Speaker

Nikita Borodin

13:00

14:00

Theoretical Physics

Session | Location: BLTP, BLTP, Conference hall

14:00–14:15

Inflation in Scalar-Coupled BF gravity

Speaker

Egor Pluzhnikov

14:15–14:30

Space-like pion off-shell form factors in the Bethe-Salpeter approach

Speaker

Mikhail Slautin

14:30–14:45

Effects of velocity-dependent terms in the Skyrme functional on fusion barrier

Speaker

Михаил Косарев

14:45–15:00

Electron-Positron Pair Creation in Supercritical Collisions of Heavy Nuclei

Speaker

Stepan Andreev

15:00–15:15

Rare processes in photon-photon collisions using beams of the Compton source project of the National Center for Physics and Mathematics

Speaker

Anna Andreeva

15:30

16:00

Theoretical Physics

Session | Location: BLTP, BLTP, Conference hall

16:00–16:15

Gluodynamics in accelerated frames using lattice simulation**Speaker**

Dr Jayanta Dey

16:15–16:30

STUDY OF PHONON DENSITY OF STATES IN GRAPHITE USING DENSITY FUNCTIONAL THEORY**Speaker**

Ms Bich Thuy Nguyen

16:30–16:45

Moshinsky Atom as a Test for FEM on Hypercubes**Speaker**

Oleg Kovalev

16:45–17:00

Neutron star kicks from asymmetric magnetorotational core-collapse supernovae**Speaker**

Ilya Kondratyev

17:00

Tuesday 28 October

12:00

Theoretical Physics

Session | Location: BLTP, 2nd floor auditorium

12:00–12:15

Studying $\pi^0, \eta, \eta' \rightarrow \nu \bar{\nu} \gamma$ Dalitz decays using anomaly sum rules approach

Speaker

Mr Sergey Khlebtsov

12:15–12:30

Theoretical Study of the $^{29}\text{Si}^{16}\text{O}^+$ Cation

Speaker

Petr Turchenko

12:30–12:45

Analytical approaches for rapid prediction of gravitational waveforms for relativistic binary systems

Speaker

Aleksandra Mishakina

12:45–13:00

Coulomb Corrections in Rare B-Decays: A Key to Improved Precision

Speaker

Stepan Manukhov

13:00

14:00

Theoretical Physics

Session | Location: BLTP, 2nd floor auditorium

14:00–14:15

Lattice study of total momentum and free energy of rotating gluon plasma

Speaker

Dmitrii Sychev

14:15–14:30

The acceleration and the Unruh temperature in the heavy-ion collisions at the NICA complex energies

Speaker

Никита Цегельник

14:30–14:45

Bound states in an effective quark model with a nonlocal interaction

Speaker

Александр Хмелев

14:45–15:00

Chiral asymmetry in elastic scattering of vortex electrons by molecules

Speaker

Valentina Kolovertnova

15:00–15:15

The Boer-Mulders effect in polarised charmonium production within Soft Gluon Resummation approach

Speaker

Kirill Shilyaev

15:30

16:00

Theoretical Physics

Session | Location: BLTP, 2nd floor auditorium

16:00–16:15**Application of the parametric integration method with Goncharov polylogarithms in critical dynamics****Speaker**

Diana Davletbaeva

16:15–16:30**Scissors mode in ^{254}No** **Speaker**

Mariia Mardyban

16:30–16:45**Methodology for analyzing the indirect manifestation of an additional Z' -boson at the ILC and CLIC in the process of $e^+e^- \rightarrow \ell^+\ell^-$** **Speaker**

Dmitry Sinegribov

16:45–17:00**Influence of the Coulomb field of the foil nuclei on half-lives of fission isomers****Speaker**

Farrukh Otakhonov

17:00

Wednesday 29 October

12:00
13:00
14:00
15:30

Theoretical Physics
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