

Session Program

27-31 Oct 2025

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

***Elementary Particle Physics and High-Energy Heavy Ion
Physics***

Monday 27 October

12:00

Elementary Particle Physics and High-Energy Heavy Ion Physics

Session | Location: BLTP, Blokhintsev Hall (BLTP, 4th floor)

12:00–12:15

Sub-luminal monopole search final results with time-based trigger/selection using the NOvA far detector data

Speaker

Alexander Antoshkin

12:15–12:30

Measurement of the $e^+e^- \rightarrow \eta \gamma$ cross section near the $\phi(1020)$ resonance with the SND detector

Speaker

Kirill Sungurov

12:30–12:45

Prospects for Studying Hidden-Charm Pentaquark States with the ATLAS Detector

Speaker

Artem Vasyukov

12:45–13:00

A $\phi(1020)$ comparative study between MC and experimental data for the BM@N experiment

Speaker

Ramin Barak

13:00

14:00

Elementary Particle Physics and High-Energy Heavy Ion Physics

Session | Location: BLTP, Blokhintsev Hall (BLTP, 4th floor)

14:00–14:15

Directed flow of protons in Xe+CsI collisions at 3.8A GeV with BM@N

Speaker

Mikhail Mamaev

14:15–14:30

Analysis of hypernuclei production in MC data for the BM@N experiment

Speaker

Елизавета Константинова

14:30–14:45

Searches for glueballs at BESIII

Speaker

Prokhor Egorov

14:45–15:00

Search for new physics in ρ^0 decays in NA64

Speaker

Svetlana Gertsenberger

15:00–15:15

Probing Hydrodynamics at 7.7 GeV: Model Comparisons of the Bulk Properties of Au+Au Collisions.

Speaker

Oris Eng

15:30

16:00

Elementary Particle Physics and High-Energy Heavy Ion Physics

Session | Location: BLTP, Blokhintsev Hall (BLTP, 4th floor)

16:00–16:15

Double-differential cross sections of neutron production at large angles in Xe + CsI collisions at 3.8 A GeV**Speaker**

Nikita Lashmanov

16:15–16:30

Pair photon production in the parton Reggeization approach.**Speaker**

Alena Pustobaeva

16:30–16:45

Search for associated production of a Higgs boson with a single top quark at $\sqrt{s} = 13$ TeV with the ATLAS detector**Speaker**

Анастасия Тропина

16:45–17:00

Si-MWPC tracking and momentum reconstruction for SRC-2022 experiment**Speaker**

Timur Atovullaev

17:00

Tuesday 28 October

12:00

Elementary Particle Physics and High-Energy Heavy Ion Physics

Session | Location: BLTP, Blokhintsev Hall (BLTP, 4th floor)

12:00–12:15

Selection of Neutrino Charge-Current Single Pion Interactions in the Upgraded Near Detector ND280 of the T2K Experiment

Speaker

Ms Daria Fedorova

12:15–12:30

Search for heavy neutral leptons in T2K experiment

Speaker

Konstantin Gorshanov

12:30–12:45

Search for point-like neutrino sources with Baikal-GVD

Speaker

Evgeny Bondarev

12:45–13:00

Application of a deep neural networks for Top-Higgs coupling analysis with the ATLAS detector in the $H \rightarrow b\bar{b}$ final state

Speaker

Alice Didenko

13:00

14:00

Elementary Particle Physics and High-Energy Heavy Ion Physics

Session | Location: BLTP, Blokhintsev Hall (BLTP, 4th floor)

14:00–14:15

Measurements of neutron kinetic energy with the Highly Granular Neutron Detector prototype in the BM@N experiment

Speaker

Aleksandr Zubankov

14:15–14:30

"Study of the strangeness production in Xe+CsI interactions with the BM@N spectrometer"

Speaker

Роман Зинченко

14:30–14:45

Deuteron directed flow in Xe+Cs(I) collisions at beam kinetic energy 3.8A GeV at the BM@N experiment

Speaker

Irina Zhavoronkova

14:45–15:00

Particle identification in highly segmented detector SuperFGD of the T2K neutrino experiment

Speaker

Alexandr Shvartsman

15:00–15:15

Sensitivity of flow harmonics to the equation of state of strongly interacting matter in heavy-ion collisions at Nuclotron-NICA energies

Speaker

Никита Бикметов

15:15–15:30

Amplitude analysis of di-charmonium production in di-J/psi and psi-psi(2S) channels with the ATLAS detector

Speaker

Alice Didenko

15:30

16:00

Elementary Particle Physics and High-Energy Heavy Ion Physics

Session | Location: BLTP, Blokhintsev Hall (BLTP, 4th floor)

16:00–16:15

Distinguishing of the $pp \rightarrow ZZjj$ process based on advanced machine learning approaches in the conditions of the ATLAS experiment

Speaker

Dmitry Zubov

16:15–16:30

Search for lightly ionizing particles (LIPs) in the NOvA experiment

Speaker

Olesya Geytota

16:30–16:45

Feasibility studies using enhanced particle production: an afterburner for the MPD experiment

Speaker

Дарья Флусова

16:45–17:00

Assessing the accuracy of the GENIE event generator with electron scattering data

Speaker

Stanislav Luchuk

17:00–17:15

Charged hadron spectra and anisotropic flows in O+O, Kr+Kr, and Xe+Xe collisions at $\sqrt{s_{NN}} = 6$ GeV using the UrQMD model

Speaker

Ms Anastasiia Vasilieva

17:15

Wednesday 29 October

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

Elementary Particle Physics and High-Energy Heavy Ion Physics

Session | Location: BLTP, 2nd floor auditorium

Elementary Particle Physics and High-Energy Heavy Ion Physics

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Thursday 30 October

12:00

13:00

14:00

15:30

Elementary Particle Physics and High-Energy Heavy Ion Physics

Session | Location: BLTP, 2nd floor auditorium

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