Session Program

18–22 Oct 2026

30th International Scientific Conference of Young Scientists and Specialists (AYSS-2026)

Accelerator Technologies and Neutron Sources

Sunday 18 October

12:15

Accelerator Technologies and Neutron Sources

Session | **Location:** Conference hall 2

12:15–12:30 **Optimization of Beam Accumulation in NICA Booster Synchrotron**

Speaker
Daniil Chumakov

12:30–12:45 **LOCO-Based Reconstruction of the Magnetic Optics Parameters of the NICA Booster**

Speaker
Anastasiia Semenova

12:45–13:00
Investigation of Flow Harmonics Correlations in Heavy-Ion Collisions at Nuclotron-NICA Energies Range

Speaker
Nikita Bikmetov

13:00

14:30

Accelerator Technologies and Neutron Sources

Session | **Location:** Conference hall 2

14:30–14:45
Development of Electronics and Software for Pulsed Electron-String Heavy Ions Source KRION-N1

Speaker
Maxim Dzugaev

14:45–15:00 **Development of a High-Voltage DC Power Supply in the "Mini-Module" Format**

Speaker
Stepan Mykhachev

15:00–15:15
Development of Power Supply Systems for a Metal Vapor Vacuum Arc Ion Source at the Heavy Ion Accelerator HIPr

Speaker
Mr Sergey Ogorodnikov

15:15–15:30
Results of a Study of The Characteristics of Modified High-Power VHF Frequency Range Combiners

Speaker
Mikhail Kozlov

15:30–15:45
The SOCHI Microcircuit Irradiation Station and Channel. Development of a Vacuum System

Speaker
Vladislav Tyulkin

15:45

16:00

Accelerator Technologies and Neutron Sources

Session | **Location:** Conference hall 2

16:00–16:15 **VMM3a-based Readout Solution for the SPD-NICA Straw Tracker**

Speaker
Vitaly Bautin

16:15–16:30

Radiation Damage to Double-Sided Silicon Strip Detectors (DSSD) When Operating in a Direct Beam of Heavy Relativistic Ions

Speaker
Danil Chemezov

16:30–16:45

Development of a Hardware System for Testing the Synchronization Network of the NICA Complex

Speaker
Vitaliy Kornienko

16:45–17:00

Development of a Control System for the High-Frequency Path Modules of Stochastic Cooling of The NICA Collider

Speaker
Andrew Krasnyakov

17:00

Monday 19 October

11:15

Accelerator Technologies and Neutron Sources

Session | **Location:** Conference hall 2

11:15–11:30

Study Interaction of Proton Beam with Ridge Filter and Tissue Equivalent Media Using Monte Carlo Method

Speaker
Azizbek Abduvaliev

11:30–11:45

Modelling Fragmentation of 124Xe and 136Xe Nuclei on a Fixed Target at the NICA Facility

Speaker
Polina Iusupova

11:45–12:00

Mixed Nitride Uranium–Plutonium Fuel for a Pulsed Reactor

Speaker
Jakob Vdovin

12:00–12:15

Development of Diagnostic Elements of the Proton Accelerator Output Channels of the Proton Synchrotron

Speaker
Dmitrii Logvinov

12:15–12:30

Development of Warm Dipole Magnets for the Proton Therapy Medical Accelerator Complex

Speaker
Artemiy Malyshev

12:30–12:45

Formation of a Specialized Beam on the Installation of LINAC

Speaker
Maria Rashitova

12:45–13:00

Magnetic Field Mapping Strategies for MSC-230 Cyclotron

Speaker
Svetlana Dima

13:00

14:30

Accelerator Technologies and Neutron Sources

Session | **Location:** Conference hall 2

14:30–14:45

Model of Side Ionization Chambers for the WWER-1000 Simulator

Speaker
Vokhid Kudratov

14:45–15:00

3He Gas Targets for the LHEP Low-Energy Polarimeter

15:00

Speaker
Dmitriy Klimanskiy