

Session Program

27–31 Oct 2025

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

Instruments and Methods of Experimental Physics

Monday 27 October

12:00

Instruments and Methods of Experimental Physics

Session | Location: MLIT, Conference hall

12:00–12:15

DEVELOPMENT OF STRUCTURED B4C COATED CATHODES FOR THERMAL NEUTRON DETECTORS

Speaker

Александр Оводов

12:15–12:30

Development of a line of high-voltage power supplies for research facilities

Speaker

Zakhar Pantelev

12:30–12:45

Development of the Readout Board for Highly Granular Neutron Detector at the BM@N experiment

Speaker

Alexander Izhvestnyy

12:45–13:00

Measurement of the time resolution of the ASHIPH counter prototype with a silicon PMT for the Super Tau-Charm Facility

Speaker

Aleksandr Chepelev

13:00

14:00

Instruments and Methods of Experimental Physics

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14:00–14:15

Momentum spread measurement method for the space charge-dominated ion beams

Speaker

Даниил Чумаков

14:15–14:30

Intercomparison of Geant4 hadronic models in simulating the Highly-Granular Neutron Detector for the BM@N experiment

Speaker

Mr Savva Savenkov

14:30–14:45

Study of the characteristics of the BBC detector prototype

Speaker

Aleksey Tishevsky

14:45–15:00

HPGe detector mass calibration with a dissolved uranium source

Speaker

Темирлан Хусаинов

15:00–15:15

Status of upgrade the ASHIPH counter for the SND detector

Speaker

Robert Efremov

15:30

16:00

Instruments and Methods of Experimental Physics

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16:00–16:15

FPGA implementation of shape fitting algorithm with electron-photon and hadron components for reconstruction in the BELLE II electromagnetic calorimeter**Speaker**

Olesia Radchenko

16:15–16:30

Data processing of FARICH prototype tests on "Electron beam facility" from VEPP-4M complex**Speaker**

Artyom Ofitserov

16:30–16:45

Methodological researches of scintillation counters operation during the SRC experiment at BM@N 2022**Speaker**

Stepan Cherepanov

17:00

Tuesday 28 October

12:00

Instruments and Methods of Experimental Physics

Session | Location: MLIT, Conference hall

12:00–12:15 **Slow Control System for MPD TOF: Overview, Current Status, and Future Plans**

Speaker

Vitaliy Dronik

12:15–12:30 **Development of precision temperature measurement module for cryogenic systems**

Speaker

Stepan Mykhachev

12:30–12:45

High-performance computations for convective flow analysis in the TPC drift volume of MPD/NICA

Speaker

Maryia Miadzvedzeva

12:45–13:00

COMPARISON OF THE USE OF NEPTUNIUM AND PLUTONIUM AS A NUCLEAR FUEL IN A NEUTRON SOURCE

Speaker

Dr Ахмед Хассан

13:00

14:00

Instruments and Methods of Experimental Physics

Session | Location: MLIT, Conference hall

14:00–14:15 **Performance and Upgrade of Trigger Detectors for the BM@N Experiment**

Speaker

Mr Valyo Velichkov

14:15–14:30 **Measurement of low-energy cosmic muons with multilayer lead-scintillator telescope**

Speaker

Daniil Liapin

14:30–14:45

IMPROVEMENT AND DETERMINATION OF THERMAL NEUTRON FLUX OF THE CHANNELS NO. 2 AND NO. 3 AT THE DALAT NUCLEAR REACTOR

Speaker

Mr Cuong Trinh Van

14:45–15:00

Data Analysis Methods in the vGeN Experiment Searching for Neutrino Scattering

Speaker

Thanh Pham

15:00–15:15

Reference Tracking System for Performance Studies of Small Straw Tracker Prototypes for the Future SPD Detector at the NICA Collider

Speaker

Margarita Banchshikova

15:15–15:30

Garfield/LTSpice studies of the straw tube time and charge resolution for various readout parameters

Speaker

Sofia Bulanova

15:30

16:00

17:00

Instruments and Methods of Experimental Physics

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Wednesday 29 October

12:00

Instruments and Methods of Experimental Physics

Session | Location: MLIT, Conference hall

12:00–12:15 Non-Destructive Evaluation of Fuel Cladding Materials for Fast Reactors

Speaker

Mr Abdelrahman Salman

12:15–12:30

Emittance Growth in Systems with Electron Cooling: The Impact of Optics Mismatch and X-Y Coupling

Speaker

Margarita Korobitsina

12:30–12:45

ПРОТОТИП ОДНОКООРДИНАТНОГО ДЕТЕКТОРА МЕДЛЕННЫХ НЕЙТРОНОВ НА ОСНОВЕ ПЛОСКОЙ КАМЕРЫ: ИЗМЕРЕНИЕ С ЛАБОРАТОРНЫМИ ИСТОЧНИКАМИ ИЗЛУЧЕНИЙ

Speaker

Mikhail Samotokhin

12:45–13:00

Remote access and synchronization subsystem of electronics cards for the TPC/MPD Detector of the NICA project

Speaker

Denis Potapov

13:00

14:00

Instruments and Methods of Experimental Physics

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14:00–14:15

Advanced setup for performance studies of small Straw Tracker prototypes for the SPD detector

Speaker

Dmitry Sosnov

14:15–14:30

Heterogeneous scintillator for detecting thermal neutrons based on lithium glass

Speaker

Илья Зимин

14:30–14:45

Uniformity study of the light yield and crosstalk in cubic scintillators

Speaker

Angelina Chvirova

15:30

Thursday 30 October

12:00

13:00

14:00

15:30

Instruments and Methods of Experimental Physics

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Friday 31 October

12:00

13:00

14:00

15:30

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