

Session Program

27–31 Oct 2025

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

Information Technology

Wednesday 29 October

12:00

Information Technology

Session | Location: MLIT, 4th floor, 456

12:00–12:15 Development of a virtual assistant for shift operators of the BM@N experiment

Speaker

Ilya Romanov

12:15–12:30 Data Management System for SPD Online Filter

Speaker

Polina Korshunova

12:30–12:45

A Unified Middleware for Data, Workflow, and Workload Management in SPD Online Filter

Speaker

Nikita Greben

12:45–13:00

Integration of Maestro Software Client and Server Components for Hardware Control of the Synchronization System Segment for the Booster Injector at LHEP JINR Using Tango Controls and WebSocket

Speaker

Алексей Козловский

13:00

14:00

Information Technology

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14:00–14:15

Deployment, Customization and Case Studies of the self-hosted C++ library package manager Conan in the software plugin development for controlling the Synchronization System Segment for the Booster Injector

Speaker

Денис Ивлиев

14:15–14:30

Adaptive Pilot Framework for Distributed Workload Execution in the SPD Online Filter System

Speaker

Леонид Романычев

14:30–14:45

A method for identifying and calculating a singularity of type $1/(x-c)$ in a multidimensional divergent integral.

Speaker

Daviti Goderidze

14:45–15:00

The Evolution of the controls-kt Framework: From an Imperative Approach to a Declarative Composite Architecture

Speaker

Maxim Kolpakov

15:00–15:15

Simulation of the dynamics of a annular system of parallel Josephson junctions under the influence of external electromagnetic radiation

Speaker

Mrs Adiba Rahmonova

15:30

Thursday 30 October

12:00

Information Technology

Session | Location: MLIT, 4th floor, 456

12:00–12:15 Monitoring of the SPD data management system

Speaker

Alexey Konak

12:15–12:30

Benefits of a Microkernel Architecture for Slow Control Systems Software in Research Activities: Case Studies from LHEP, JINR

Speaker

Алексей Козловский

12:30–12:45

Method for automating the processes of building, testing, and deploying application software within the distributed data processing system of the SPD experiment

Speaker

Ринат Короткин

12:45–13:00

Status of the BM@N software infrastructure and future plans

Speaker

Alexander Chebotov

13:00

14:00

Information Technology

Session | Location: MLIT, 4th floor, 456

14:00–14:15 Slow Control System of the BM@N experiment

Speaker

Илья Осокин

14:15–14:30

Algorithms for resolving overlapping signals in cathode-strip detectors based on wavelet transform and KAN neural network

Speaker

Dmitry Fomenok

14:30–14:45

Development Methodology of the Data Management System for the BM@N experiment

Speaker

Igor Zhironkin

15:30