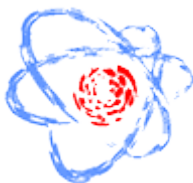


Session Program

8–15 Jun 2025



JINR Association of Young Scientists and Specialists Conference "Alushta-2025"

Section Talks

Monday 9 June

10:20

Section Talks: FLNP

Session | Location:

10:20–10:30

Power feedback model of the IBR-2M reactor and physical processes describing its behavior.

Speaker

Maxim Podlesnyy

10:30–10:40

Response of the LaBr3 scintillation detector on the 14.1 MeV neutrons irradiation

Speaker

Никита Федоров

10:40–10:50

Measurement of differential and total scattering cross sections of 14.1 MeV neutrons on carbon nuclei: methodological aspects and results

Speaker

Pavel Prusachenko

10:50–11:00

The fourth-generation reactor "Neptune" is a step towards closing the nuclear fuel cycle

Speaker

Dr Ахмед Хассан

11:00–11:10

Investigation of the effect of the microstructure of positive electrodes of chemical current sources on their functional characteristics

Speaker

Meir Yerdauletov

11:10–11:20

Small Size Alternative Fast Neutron Detector based on Helium-4 gas Using PHITS Monte Carlo Simulations

Speaker

cao hai

11:20–11:30

A study of the defect formation of CuO nanostructures under He+ ion irradiation

Speaker

Silvia María Fortuné Fábregas

11:30–11:40

Comprehensive studies of cultural heritage sites at the IBR-2 reactor

Speaker

Veronika Smirnova

11:40–11:50

The systematic structural studies of some Byzantine ceramic fragments using neutron diffraction, tomography and Raman spectroscopy.

Speaker

Ayazhan Zhomartova

11:50

13:30

Section Talks: BLTP+MSU

Session | Location:

13:30–13:40 Axial anomaly and Unruh effect in curved spacetime

Speaker
ROMAN KHAKIMOV

13:40–13:50 N= 2 supersymmetry and higher-spin theories

Speaker
Nikita Zaigraev

13:50–14:00 Rotating Black Holes in Extended Theories of Gravity: Constraints Using EHT Data

Speaker
Oleg Zenin

14:00

Tuesday 10 June

10:40

Section Talks: VBLHEP

Session | Location:

10:40–10:50 **Spin transparency mode of deuterons in the entire energy range at the Nuclotron/JINR**

Speaker

Elizaveta Butenko

10:50–11:00

Development of a temperature controller for cryogenic systems at the NICA accelerator complex

Speaker

Maxim Dzugaev

11:00–11:10

Students contribution to the development of NICA Injector Installations (Вклад студентов в развитие установок инжектора комплекса NICA)

Speaker

Дмитрий Понкин

11:10–11:20

Methods of electron cooling friction force measurement suitable for NICA Booster synchrotron

Speaker

Даниил Чумаков

11:20–11:30

The facility for manufacturing of HTS cables and solenoids

Speaker

Evgeny Matyukhanov

11:30–11:40

Системы контроля параметров и защиты модельного соленоида импульсного ВТСП индуктивного накопителя энергии SMES в системе питания сверхпроводящих магнитов Бустера и Нуклотрона NICA

Speaker

Ilya Donguzov

11:40–11:50

Hardware and software complex for measuring the tension of anod wires in drift tubes.

Speaker

Mr Nurzada Saktaganov

11:50–12:00

Газовые мишени ^3He для поляриметра низких энергий LEP ЛФВЭ

Speaker

Дмитрий Климанский

12:00

12:20

Section Talks: VBLHEP

Session | Location:

12:20–12:30

Distributed control system for the BM@N experiment

Speaker

Илья Осокин

12:30–12:40

Подсистема удаленного доступа и синхронизации карт электроники для детектора TPC/MPD проекта NICA**Speaker**

Denis Potapov

12:40–12:50

Monitoring of data collection at the CMS experiment at the LHC**Speaker**

Vladislav Shalaev

12:50–13:00

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

Timur Atovullaev

13:00–13:10

The CSC data in the 2022 SRC run**Speaker**

Madalina Mihaela Miloi

13:10–13:20

Optimization of the detector configuration for the new SRC experiment with a polarized deuteron beam**Speaker**

Asya Atovellaeva

13:20–13:30

Nuclear modification factor of inclusive charged particles in Au+Au collisions at URQMD and HYDRO model**Speaker**

Alisher Aitbayev

13:30–13:40

Exploring Nuclear Clusters Through Relativistic Nucleus Fragmentation**Speaker**

Dr MARIMUTHU NATARAJAN

13:40

Wednesday 11 June

10:30

Section Talks: DLNP

Session | Location:

10:30–10:40

Development of X-ray Monochromatization Devices for Energy Calibration of Pixel Semiconductor Detectors

Speaker

TRUONG HOAI BAO PHI

10:40–10:50

Garfield++ simulation of the Micromegas detector

Speaker

Natalia Koviagina

10:50–11:00

Robustness test of a Micromegas detector with resistive DLC anode

Speaker

Igor Liashko

11:00–11:10

Calculation of self-shielding correction for Neutron activation experiments at IREN facility using PHITS and MCNP6

Speaker

Thanh Pham

11:10

12:30

Section Talks: MLIT

Session | Location:

12:35–12:45

SPD data management

Speaker

Alexey Konak

12:45–12:55

Pilot Applications for Distributed Task Execution in the SPD Online Filter System

Speaker

Леонид Романычев

12:55–13:05

An Overview of SPD Online Filter High-Throughput Processing Middleware

Speaker

Nikita Greben

13:05–13:15

Automation of BM@N Run9 data processing on a DIRAC distributed infrastructure

Speaker

Igor Pelevanyuk

13:15–13:25

Цифровая карта технологий: детекторы, ускорители, компетенции

Speaker

Ms Анна Ильина

13:30

13:30

Section Talks: Offices and Departments

Session | Location:

13:30–13:40 Science art**Speaker**

Варвара Фуфаева

13:40–13:50**Улучшаем навыки съемки видео на телефон. Наглядные примеры, практические рекомендации****Speaker**

Мг Александр Байдацкий

13:50

Thursday 12 June

10:10

Section Talks: LRB

Session | Location:

10:10–10:20

Dynamics of IL-1 β , arginase, and NO synthase levels in mouse brain homogenates following proton irradiation at the Bragg peak in the short and long term.

Speaker

Nguyễn Bảo Ngọc

10:20–10:30

Comparative analysis of behavioral responses and physiological parameters of mice under proton exposure and aging.

Speaker

Sofya Sakharova

10:30–10:40

INDUCTION OF DNA DOUBLE-STRAND BREAKS BY X-RAYS UNDER THE INFLUENCE OF THE COMBINATION OF DNA REPAIR INHIBITORS IN B16 MURINE MELANOMA CELLS.

Speaker

Зуен Фам

10:40–10:50

The effect of DNA repair inhibitors on the double-strand breaks formation

Speaker

Daria Shamina

10:50

Saturday 14 June

10:30

Section Talks: FLNR

Session | Location:

10:30–10:40

STUDY OF NUCLEON TRANSFER PROCESSES IN THE REACTIONS $^{48}\text{Ca} + ^{197}\text{Au}$, $^{40}\text{Ca} + ^{197}\text{Au}$

Speaker

Ksenia Molotorenko

10:40–10:50

Experimental study of Mass–Total Kinetic Energy distributions of fragments formed in the $^{48}\text{Ca} + ^{208}\text{Pb}$ reaction

Speaker

Sanila Sathyan

10:50–11:00

The off-line tests of the Cryogenic gas stopping cell at the FLNR JINR

Speaker

Алексей Новоселов

11:00–11:10

Описание работы ЖРО и газоочистки систем циклотронов

Speaker

Alexandr Zudin

11:10–11:20

Time-correlated single photon counting technique in optical spectroscopy of MgAl_2O_4

Speaker

Phuong Thao Le Thi

11:20–11:30

Utilization of prompt gamma-ray spectroscopy using segmented gamma detectors in experimental setups

Speaker

ANIRUDDHA DEY

11:30–11:40

Natural Radionuclides in Rice Soils in the Mekong Delta Region, Vietnam: Health Risk, Transfer to Rice, and Long-Term Accumulation in Topsoil

Speaker

Бинь Ле

11:40