

## Monday 27 October

18:30

#### Poster session & Welcome drinks

Poster Session | Location: JINR International Conference Centre, 2 Stroiteley st.

Improved Analysis of the Hydrophilic Dimensions of Membrane Proteins from X-ray Crystallographic Data

Speaker

Semyon Zhuravlev

Hyperspherical Function Method for Calculating Binding Energies of Three-Body Systems

Speaker

Artur Gapchenko

Strontium Migration in SiC Under Uniform Helium Implantation.

Speaker

Tshepiso Kadi

Effects of 710 MeV Bi Ion Irradiation and Annealing on Se-Implanted SiC

Speaker

Tshepo Mabelane

Comparative effects of swift heavy ion irradiation on SiC implanted with Ag alone and Ag + He

Speaker

Rifumo Chauke

Calibration and Simulation of the CMD-3 Endcap BGO Calorimeter: Studies of Electronic Nonlinearity and Energy Resolution

Speaker

Ivan Dubrovin

Sensitivity study of the ATLAS experiment at the LHC to Higgs-boson production in association with a single top quark for Run 3 and upcoming High-Luminosity run

Speaker

Alina Dadashova

Investigation of magnetization dynamics in  $\phi 0$  Josephson Junctions under the influence of an external EM field

Speaker

Dmitry Malkin

SPD Beam-beam counter detector signal response uniformity tests with cosmic muons

Speaker

Kseniya Tertyshnaya

Fabrication and Characterization of Luminescent Polymer Nanocomposite Films

Speaker

Ms Samkelisiwe Khambule

Helium and silver co-implantation into SiC at 350 °C and sequential annealing: Effects of temperature and helium bubbles on SiC structure and migration behaviour of silver

Sive Mtsi

Absorption properties of boron nitride quantum dots: Effects of solvents

#### Speaker

Mr Ilia Simonenko

Comprehensive Analysis of the Effect of Gamma Irradiation on Defect Dynamics and Structural Stability in ZrC Nanocrystals

#### Speaker

Samir Samadov

## FLOWMETERS BASED ON THROTTLE DEVICES IN CRYOGENIC SUPPLY SYSTEMS OF THE NICA ACCELERATOR COMPLEX

#### Speaker

Mrs Tatyana Zhironkina

Dependence of the angular coefficients of  $J/\psi$  mesons  $A_{i}$  on the transverse momentum in pp collisions at  $\sqrt{s_{NN}} = 10$  GeV using the Pythia model

#### Speaker

Mr Mikhail Bykovskii

Comparative Analysis of Parametric X-ray Radiation from Carbon Powder with Different Particle Sizes

#### Speaker

Ekaterina Kidanova

Activated Carbon Production From Pistachio Shells For Use in Supercapacitor Applications

#### Speaker

khadija Windo

Study of Hadron Shower Development in the FHCal at the BM@N Experiment

#### Speaker

Ms Valeria Zharova

# MULTIFUNCTIONAL SYSTEM FOR DIAGNOSTICS AND ADJUSTMENT OF AMPLIFIER MODULES RF2-RF3 OF THE NICA COLLIDER

### Speaker

Александр Карпук

#### Physical Properties of Nano- Scaled silver in Boron Nitride Matrix

### Speaker

Mr Awadelkarim Mohamed Ismail Ibrahim

#### Development of Offline Run Validation System for the JUNO Experiment

#### Speaker

Dmitrii Shpotya

### Neutron multiplicity from ordinary muon capture in 136Ba and 76Se

#### Speaker

Дмитрий Илюшкин

#### GEANT4 simulation of muon capture on Fe, Al, Cu and BaCO<sub>3</sub> targets in the MONUMENT experiment

#### Speaker

Artem Bystryakov

Research of the effects of Gamma irradiation on the electrical properties of GaN transistors and amplifiers for scintillation detectors in high-luminosity experiments

Speaker

Виктория Москаленко

#### DETERMINATION OF BORON CONCENTRATION IN GLASS SAMPLES BY PGNAA METHOD

Speaker

Đức Nguyễn Minh

#### CALCULATION OF NEUTRON SELF-SHIELDING FACTOR FOR 186W TARGET USING THE PHITS CODE

Speaker

Phuong Dung Truong

Development and characterization of a novel energy calibration method for photon-counting GaAs:Cr-TIMEPIX3 detectors

Speaker

TRUONG HOAI BAO PHI

Benchmarking Computational Tools for Predicting Absorbance Spectral Shifts in rhodopsin Mutants

Speaker

Lev Vasilenko

Renormalization group improvement of effective potential for an arbitrary scalar field theory with massive term.

Speaker

Aleksandr Golovin

Effective production of E. coli ABC-transporter MsbA for in meso crystallization improvement

Speaker

Ivan Bezruchko

Spectroscopic factor for the mirror pairs of nuclei

Speaker

Jamshitdin Talibjanov

Finite Nuclei Properties from Nuclear Matter Equation of State

Speaker

Ahmed Refaat Mohammed Mohammed

Kinetics of electrodeposition of indium nanowires with thin gold segments for microelectronics

Speaker

Mr Artem Shashkov

## COMPARISON OF HEAVY METAL ABSORPTION BETWEEN COTTON AND MOSS IN AIR ENVIRONMENT

Speaker

Hieu Nguyen Trung

Possibilities of obtaining swollen lipid cubic phases using various ionogenic surfactants

Speaker

Aleksei Shishkin

SrTiO₃@SiO₂ Composites with Combined Adsorption and Photocatalysis Mechanisms for Efficient Wastewater Treatment

Speaker

Madina Bissenova

Mosses as bioindicators of air pollution with potentially toxic elements in the Burabay State National Natural Park, Kazakhstan

Speaker

Inga Zinicovscaia

Encapsulation and controlled release of halogenated natural products in nanoformulations for enhanced stability and biological activity

Speaker

Ritshidze Mudanabula

Study of the reaction <sup>11</sup>B(<sup>10</sup>B, <sup>10</sup>B)<sup>11</sup>B at an energy of 41.3 MeV

Speaker

AIKEN NURPEISOV

Study of the Hyperon reconstruction in the SPD/NICA

Speaker

Daniil Gubachev

Exploring magnetic properties of single molecular magnets

Speaker

Antony Syurakshin

20:30