

**Session Program**

20-25 Sept 2021

**LXXI International conference "NUCLEUS -  
2021. Nuclear physics and elementary  
particle physics. Nuclear physics  
technologies"**

***Poster session (Relativistic nuclear physics,  
elementary particle physics and high-energy  
physics)***

# Thursday 23 September

19:00

## Poster session (Relativistic nuclear physics, elementary particle physics and high-energy physics)

Poster Session | Convener: Evgeny Andronov

### DISTRIBUTION OF SECONDARY PARTICLES IN DEPENDENCE ON TRANSVERSE MOMENTUM IN HIGH ENERGY COLLISIONS OF PROTONS AND SIGNALS OF DARK MATTER IN THE SPECTRA OF PHOTONS

**Speaker**

Prof. Alexander D'yachenko

### Extended multipomeron exchange model for pp, pA and AA collisions

**Speaker**

Vladimir Kovalenko

### COMPARISON OF SOME CHARACTERISTICS OF CHARGED PIONS IN $P^{12}C$ AND $N^{12}C$ COLLISIONS AT 4.2 GEV/C

**Speaker**

Rakhmatulla Bekmirzaev

### Kinematic approach for nuclei coalescence in transport models

**Speaker**

Vladislav Sandul

### Early Universe Expansion of Quark Gluon Plasma with Quasi-Particle Approach

**Speaker**

Mr Luv Kumar

### Emission of two gamma ray photon from quark-gluon plasma with chemical potential

**Speaker**

Mr Gaurang Kuksal

### Transverse sphericity dependence of elliptic flow and application of machine learning tools in heavy-ion collisions at the LHC using AMPT model

**Speaker**

Mr Neelkamal Mallick

### About leptons in theory of space-time film

**Speaker**

Alexander Chernitskii

### METHOD FOR RECONSTRUCTION THE SPECTRA OF SHORT-RANGE CHARGED PARTICLES IN STOPPED $\pi^{\pm}$ -MESON ABSORPTION BY NUCLEI

**Speaker**

Prof. Yu. B. Gurov

### RECONSTRUCTION OF THE ELECTRON SPECTRUM FROM DEPTH DOSE DISTRIBUTION WITH THE MODIFIED TIKHONOV REGULARIZATION

**Speaker**  
Victoria Ipatova

**Эффективное действие Липатова и иерархия Балицкого**

**Speaker**  
Семен Поздняков

**Identification of central events in nucleus-nucleus collisions by machine learning algorithms**

**Speaker**  
Evgeny Andronov

**Proton spectra in HE proton-proton collisions recalculated to laboratory system: the specifics that are reproduced in spectra of astrophysical protons, gamma and neutrino.**

**Speaker**  
Olga Piskunova

**PROBING OF EXOTICS STRUCTURE IN HADRON AND HEAVY ION COLLISIONS**

**Speaker**  
Prof. Mikhail Barabanov

20:10