

LXXV International Conference «NUCLEUS – 2025. Nuclear physics, elementary particle physics and nuclear technologies»

Tuesday 1 July 2025

4. Relativistic nuclear physics, high-energy and elementary particle physics - Актовый зал (17:40 - 19:00)

time	[id] title	presenter
17:40	[212] Machine-learning-based particle identification	KOROBITSIN, Artem
18:00	[338] Neural network domain adaptation for addressing the generator-dependence problem in impact parameter estimation	ГАЛАКТИОНОВ, Кирилл
18:20	[311] Graph Neural Network-based neutron reconstruction in the HGND at the BM@N experiment	BOCHARNIKOV, Vladimir
18:40	[255] Bayesian approach for centrality determination in nucleus-nucleus collisions in experiments at the NICA accelerator complex	IDRISOV, Dim

Friday 4 July 2025

4. Relativistic nuclear physics, high-energy and elementary particle physics - БХА (11:20 - 13:00)

time	[id] title	presenter
11:20	[195] Влияние деформации ядер на моделирование азимутальной анизотропии в Монте-Карло генераторе HYDJET++	МЯГКОВ, Данила
11:40	[405] Application of the holographic equations of state for modeling experiments on heavy ion collisions	ANUFRIEV, Anton
12:00	[421] Upcgen: an event generator for two-photon and photoproduction processes in ultraperipheral collisions	BURMASOV, Nazar
12:20	[420] Hybrid approach for simulating heavy flavor transport in small colliding systems	PROKHOROVA, Daria
12:40	[392] Simulation of neutron and nuclear fragment production in Urqmd 3.4 model supplemented by clustering model and multi-fragmentation statistical model	GALOYAN, Aida

Saturday 5 July 2025

4. Relativistic nuclear physics, high-energy and elementary particle physics - БХА (11:30 - 12:50)

time	[id] title	presenter
11:30	[103] Emission of fragments in collisions of intermediate-energy heavy ions based on the non-equilibrium quantum hydrodynamic approach	D'YACHENKO, Alexander
11:50	[281] Azimuthal dependence of the fractional parton energy loss in Cu+Au collisions at $\sqrt{s_{NN}} = 200$ GeV	BASIROV, Kirill
12:10	[217] Measurement of neutron yields in the Xe+Csl reaction by the Highly Granular time-of-flight Neutron Detector prototype in the BM@N experiment	ZUBANKOV, Aleksandr
12:30	[448] Reactions $dd \rightarrow dd\pi$ and $pd \rightarrow pd\pi$ and isoscalar dibaryons	UZI KOV, Yuriy

4. Relativistic nuclear physics, high-energy and elementary particle physics - БХА (14:10 - 16:10)

time	[id] title	presenter
14:10	[205] Performance for inclusive photon and neutral pion spectra and anisotropic flow measurements with the MPD experiment	GOLOSOV, Oleg
14:30	[177] Feasibility study of the anisotropic flow measurements with fixed-target mode of the MPD experiment at NICA	PARFENOV, Petr
14:50	[20] Performance of the MPD detector at NICA in the fixed-target configuration	RIABOV, Viktor
15:10	[372] Сравнительный анализ подходов к идентификации частиц в эксперименте MPD	БАБКИН, Вадим
15:30	[439] Modeling multiplicity distributions in relativistic heavy-ion collisions at NICA energies	KATAREBE, Loic
15:50	[209] ACTS-based track reconstruction for the forward detector in the MPD experiment at NICA	BURMASOV, Nazar

4. Relativistic nuclear physics, high-energy and elementary particle physics - БХА (16:30 - 17:50)

time	[id] title	presenter
16:30	[358] Net-proton high-order cumulants in event-by-event studies in high energy A+A collisions at NICA energies	FEOFILOV, Grigory
16:50	[332] Scaling relations for anisotropic flow at NICA energies	TARANENKO, Arkadiy
17:10	[347] The vorticity and acceleration phenomena in the heavy-ion collisions at the NICA complex energies	TSEGELNIK, Nikita
17:30	[285] Production of spectator neutrons, protons and light fragments on fixed targets at NICA	Dr SVETLICHNYI, Aleksandr

Sunday 6 July 2025

4. Relativistic nuclear physics, high-energy and elementary particle physics - EXA (12:30 - 14:10)

time	[id] title	presenter
12:30	[410] Large rapidity gap events in proton-nucleus collisions at LHC energies	SOSNOV, Dmitry
12:50	[121] Direct photon production in p–Pb collisions measured with ALICE/PHOS	AVERYANOV, Dmitry
13:10	[284] Latest results of searches for invisible Higgs Boson decays in events with vector-boson fusion signatures in the ATLAS experiment	POKIDOVA, Marina
13:30	[457] Average transverse energy density for pions, kaons, ϕ -mesons and Ω -hyperons in the most central A+A collisions at RHIC and LHC	SHAPOSHNIKOVA, Olga
13:50	[326] Global polarization of hyperons in Au+Au collisions at BES-II energies by the STAR experiment	ALPATOV, Egor