

Table of contents

Tuesday 27 October 2026	1
Friday 30 October 2026	6

The 8th international conference on particle physics and astrophysics

Tuesday 27 October 2026

Poster session: Posters & Wine - Conference Hall 1 (17:30-19:30)

[id] title	presenter	board
[385] Experiment to search for heliogeophysical phenomena in cosmic rays in Earth orbit	ARKHANGELSKIY, Andrey MAYOROV, Andrey	
[216] Charged-particle distributions in heavy-ion collisions at the LHC Run 3 energy studied with the HYDJET and HYDJET++ Monte Carlo generators.	BRATYSHEV, Vladislav	
[62] SPH simulation of neutron star merger	KUDRYASHOV, Dmitriy	
[392] Calculation of antineutrino and beta particle spectra of uranium and plutonium isotope fission products in thermal and fast neutron reactors	■■■■■■■, ■■■■■■■■	
[63] Revisiting clusters of PBHs as dark matter candidates	Mr. ■■■■■■■■, ■■■■■■■■	
[219] Neutrino spin oscillations in spatially inhomogeneous magnetic fields of realistic astrophysical objects	WANG, DEGANG	
[67] More on holographic color superconductivity	NGUYEN, Hoang Vu	
[68] Checking of beta and antineutrino spectra symmetry by the use of JUNO detector	INGERMAN, Svetlana	
[222] Modeling the energy dependence of the $^{237}\text{Np}(n,f)$ reaction cross-section in the 0.1–30 MeV range	ENENKO, Ksenia	
[71] Quasi-continuous electron generation in a pyroelectric accelerator driven by periodically varying temperature	OLEINIK, Andrei KLENIN, Artemiy	
[104] Pair production of heavy quarkonia in Z-boson decays	Mr. SKAKUN, Artem	
[231] Development of a scintillation spectrometer for measuring energy spectra of beta particles from fission products of uranium and plutonium isotopes	Ms. SUSHKOVA, Polina Mr. POPOV, Daniel	
[134] Elastic Scattering of Neutrons with Orbital Angular Momentum on Nuclear Targets	CHAIKOVSKAIA, Alisa	
[120] Second-order perturbation theory corrections to hyperfine structure of muonic helium	SEREDINA, Ksenia	
[127] Recent results in exotic hadron spectroscopy with $\psi(2S)$ in final states	TULUPOV, Alexander	
[233] Signal readout system for cryogenic CsI(pure) scintillation detector of tritium neutrino	Mr. KALASHNIKOV, Denis	
[136] Feasibility study of anisotropic flow measurements for ϕ -mesons in the MPD experiment using enhanced production	FLUSOVA, Daria	
[139] Studying the stability of the background count rate in the GeN experiment	DEGTYAREV, Boris	
[142] Measuring correlations using local and nonlocal quenches	MIKHAYLENKO, Alexey	
[147] Photomultiplier tubes for optical modules: Study for Hyper-Kamiokande outer detector.	STROKE, Yan	

[267] Two-Body Decays of Bottom Baryons into Pentaquarks and Vector Mesons	VORONENKO, Millena	
[138] Directed flow of charged pions in Xe+Cs(I) collisions at the beam energy of 3.8A GeV with BM@N experiment	■■■■■■■■■■, ■■■■■■	
[401] The peculiarities in Ia supernovae redshift distribution obtained due preliminary studies results of the Open Supernova catalogue data	Mrs. ARKHANGELSKAJA, I.V.	
[374] STUDY OF 6He – 4He SCATTERING AT THE ACCULINNA-2 FRAGMENT SEPARATOR	Mr. MAKAROV, Danila	
[332] Analytical description of atmospheric muon spectra at large zenith angles	Ms. KOTSEVA, Khristina	
[320] Probing Lorentz Invariance Violation with Air-Shower Maximum Distributions	MARTYNENKO, Nickolay	
[379] Heavy-Ion Track Structure and Target Dose Deposition Simulations Using Geant4-DNA	VOLOGZHIN, Matvey	
[277] Centrality and Event Registration Efficiency Determination in Xe+CsI Collisions at BM@N	IDRISOV, Dim	
[383] Investigation of Astrophysical Sources, Including the Sun, via Radio Interferometry Using AX-Offset D90 Antennas	Mrs. . ARKHANGELSKAJA, Irene	
[251] Prospects for searching for the neutrino magnetic moment in processes of solar neutrino scattering on superfluid helium-4	STEPANTSOV, Ivan	
[235] Measurements of radioactive purity of WLS plates for water Cherenkov detectors	KAZALOV, Vladimir	
[230] Wave packet approach for description of Majorana neutrino oscillations in a magnetic field	TCVIROV, Aleksandr	
[226] Data processing and event selection for measuring polarization correlations of annihilation photons at large Compton scattering angles	EVSIUKOV, Mikhail	
[101] TOF CORRECTION METHOD FOR INSTALLATIONS WITH HEAVY CRYSTALS FOR CREATING A NEUTRON DETECTOR	Mr. TAER, Georgyi	
[89] Neutron-rich isotopes production in Heavy-Ion Collisions Using the COMBAS Fragment Separator and comparison with model predictions	BATCHULUUN, Erdemchimeg	
[46] Constraints on millicharged particles from thunderstorms on the Solar system planets	DMITRIEVA, Ekaterina	
[36] FROM QUARK CORRELATIONS TO VIRTUAL CLUSTERS IN NUCLEI	MUSULMANBEKOV, Genis	
[358] Muonography in Geocology	STREKALINA, Daria	
[406] NICER Spectral-Timing Constraints on the Nature of IGR J17285–2922	TOKBAY, Dervis Ersin	
[403] Studying of SuperFGD response using stopped cosmic muons	SKROBOVA, Nataliya	
[396] Quarkonium States in Strongly Magnetized Deconfined Matter of Compact Astrophysical Objects	Mr. ZELENIEV, Viacheslav	
[399] Consensus based approach to modeling of interacting nuclear particle system	IVANSKIY, Yury	
[390] Construction of Nuclear Level Filling Schemes Using the Woods–Saxon Potential Based on ENSDF Data	■■■■■■■, ■■■■■■■■ ■■ ■■■■■■■ ■■■■ ARKHANGELSKAJA, Irene	
[370] Search for Potential Astrophysical Sources of High-Energy Muon Events in LVD	ERKOMOV, Andrey	
[363] Monoscopic data processing and reconstruction with TAIGA-IACT	Mr. BEZYAZEEDOV, Pavel	

[illegible]

[323] Inflationary scalar field dynamics and the mass spectrum of primordial black holes	■■■■■■■, ■■■■■■■■■■■■■	
[296] INVESTIGATION OF SECONDARY ELECTRON EMISSION PROCESSES USING A MULTI-WIRE MONITORING SYSTEM FOR CHARGED-PARTICLE AND HEAVY-ION BEAMS	ZEMPLIN, Egor	
[295] Renormalization group analysis of randomly growing surface with active feedback on incompressible fluid	PARKHOMENKO, Egor	
[290] FPGA-BASED MUON REGISTRATION CHANNEL FOR POSITIONING SYSTEM	LAPSHIN, Maksim	
[32] Neutrino oscillations and decoherence in astrophysical environments	POPOV, Artem	
[300] Study on transverse Momentum Resolution of SPD Straw Tracker in high multiplicity ion-ion collisions	LAZAREVA, Arina	
[279] Matter effects in long-baseline neutrino experiments	SEMENOVA, Elena	
[265] Neutron Studies in a Highly Segmented Detector of the T2K Experiment	Mr. RAZGONYAEV, Alexey	
[264] ELECTRON DETECTION IN THE SEGMENTED NEUTRINO DETECTOR SUPERFGD	Mr. POLYAKOV, Alexander	
[252] Study of xenon doping to liquid argon in CENNS-10 detector	Mr. KOSKIN, Yuri	
[209] Development of a solid-state modular reactor antineutrino detector	■■■■■■■■■■■■■, ■■■■■■■	
[206] Neural Reconstruction of Muon Tracks in Baikal-GVD Using NTSim Simulations	Mr. MAKSIMOV, Maksim	
[200] Monte Carlo Study of PeV Muon Propagation and Secondary Particle Production in Gran Sasso Rock	TROSHINA, Xenia	
[190] The automated stand KALIF-8 for testing the characteristics of photomultiplier tubes	AKININ, Georgy	
[178] DAQ system for the BBC Detector Based on a Microservice Architecture	SOLOMBEKOV, Matvej	
[133] A double-sided thin entrance window Si(Li) detector for the application in multilayer detector systems.	TRUSHIN, Maxim	
[130] PIN photodiode BPW34 as a photodetector for scintillation signals	Mr. VELICHKO, Alexander Mr. STARIKOV, Alexey	
[124] Matrix scintillation detector with high time resolution based on silicon photomultipliers with epitaxial quenching resistors.	KOZHUKHOV, Alexandr	
[110] Study of the Spatial Distribution of Atmospheric Muons: FANSY Simulations and Results from the Underground LVD experiment	AGAFONOVA, Natalia	
[106] Fission-Fraction Uncertainties in the Calculation of the Antineutrino Flux from a VVER-1000 Reactor	ZHUTIKOV, Ivan	
[94] Spectrometric Characteristics of a Silicon PIN Diode for Gamma-Ray Detection at Room Temperature	MAKEEV, Alexander	
[91] Study of DANSS photodetector signal nonlinearity	ANASTASIA, Pavliuk KRAPIVA, Artemiy	
[85] Study of the Single-Photoelectron Signal in Photomultiplier Tubes of the DANSS Detector	ILYUSHKIN, Dmitry	
[83] Distance estimation to supernova SN 2024ws using the EPM and SCM methods and assessing their applicability based on physical modeling type IIP supernovae.	VASILYEVA, Taisiya	

[78] Radiation resistance of SiC and Si detectors after irradiation with alpha particles	Mr. EVSEEV, Sergey	
[53] A Search for Boosted Dark Matter with the Borexino Detector	IVANOV, Denis	
[43] Effects of dynamo-enhanced magnetization and oscillations in supernova neutrino energy spectra	SAIMUHA, Azamat	
[25] Reconstruction Procedure for $\Lambda\Lambda$ Pairs in Xe + CsI Collisions at 3.8A GeV in the BM@N Experiment	ALISHINA, Ksenia	
[17] Multi-Scenario Failure Training for Robust Charged-Pion Energy Reconstruction	Mr. YAKUNIN, Ruslan	
[6] FLUCTUATIONS AND CORRELATIONS IN RELATIVISTIC NUCLEUS–NUCLEUS COLLISIONS	Ms. IBRAIMOVA, Sayora	
[1] A study of nucleon and Δ form factors with pion cloud effect	Prof. DONG, Yubing	
[185] Study of semileptonic charged kaon decay to neutral pion, antimuon and muon neutrino in OKA experiment	ZAVIDOV, Evgenii	
[30] State-of-art imaging in nuclear track emulsion	ZARUBINA, Irina	
[193] Analysis of the decay of the J/ψ meson using neural networks for data analysis in particle physics.	■■■■■■■■■■, ■■■■■■■■■■ ■■■■■■■■■■, ■■■■■■■■■■	
[180] PROPORTIONAL COUNTER FOR DARK PHOTON SEARCH IN THE PHELEX EXPERIMENT	■■■■■■■■■■, ■■■■■■■■■■	
[176] The $p\bar{p} \rightarrow p\bar{n}\pi^+$ reaction with proton-neutron final state interaction	LADYGINA, Nadezhda	
[174] Thermalization of dark atoms	■■■■■■■■, ■■■■■■■■■■	
[172] Preliminary estimation of the Baikal-GVD detector sensitivity to diffuse astrophysical neutrino flux in track-like event analysis	BUSEL, Daria	
[160] Nuclotron beam-test results for the SPD Beam-Beam Counter prototype.	FOMICHEV, Nikita	
[156] Polymer Composite Scintillators Based on Halide Perovskite Nanocrystals for X-Ray Imaging	Mr. KNYSH, Aleksandr	

Friday 30 October 2026

Poster session: Additional poster session (16:30-17:00)

[id]	title	presenter	board
[87]	GRISP Scientific Instrument Suite for High-Energy Solar Radiation Studies and Monitoring aboard the ARKA Space Complex	Dr. KOROTKOV, Mikhail	