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# The 6th international conference on particle physics and astrophysics

## Tuesday 29 November 2022

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[206] The interaction of dark atoms of dark matter with atomic nuclei	BIKBAEV, Timur	
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[191] Determination of dead layer parameters of semiconductor germanium detectors using machine learning for the LEGEND experiment	LEVASHKO, Nikita	
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[110] New technology for manufacturing scintillation elements for a highly segmented 3D neutrino detector	Ms. CHVIROVA, Angelina	
[313] Towards new tests of cosmic-ray correlations with BL Lac type objects	Mrs. KUDENKO, Maria	
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[333] Hypothetical hot primordial regions in the Universe with abnormally high metallicity	Mr. EL-KASMI, Mohamed	
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[305] Comparison of Geant4 simulation data with hadron shower data in the PAMELA experiment.	ALEKSEEV, Vladislav	
[279] Project of a compact muon hodoscope for muonography of various objects.	TSELINENKO, Maxim	

[319] Technique for detecting high-energy electrons and positrons by means of synchrotron radiation in the Earth's magnetic field	STUZHIN, Alexandr	
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[71] Machine learning applications for particle identification in MPD	PAPOYAN, Vladimir	
[208] Control facilities for the Fast Interaction Trigger detector in the ALICE experiment	SUKHANOV, Mikhail	
[53] Beam composition analysis using a single shashlik-type calorimetry module	Mr. SHORKIN, Roman	
[128] The time synchronization of the ALICE Fast Interaction Trigger detector	FINOGEEV, Dmitry	
[124] Online monitoring of the forward detectors of the BM@N experiment with Xe beam	Mr. ZUBANKOV, Aleksandr	
[315] The Tunka-Grande array simulations for the primary cosmic rays identification – status and prospects	TERNOVOY, Mark	
[132] Estimation of the influence of the electric field nonuniformity on the error of reconstructed coordinates of events in the ReD TPC	DOLGANOV, Grigory	
[139] Simulation studies of the beam monitor for the CSR external-target experiment	YAN, Fei WANG, Zhen	
[210] The possibility of finding the P-symmetry breaking decay of the charged $a_0$ meson	PETROV, Vitalii	
[59] Machine learning approach in event position reconstruction in DEAP-3600 dark matter search experiment	ILYASOV, Aidar	
[214] The estimation of the background induced by the misidentification of a jet as a photon by slice method at pp collider experiment	Ms. KAZAKOVA, Katerina	
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[18] Relativistic corrections to the Higgs boson decay into a pair of vector quarkonia	MARTYNNENKO, Fedor	
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[322] Light concentrators for large-volume detector at the Baksan Neutrino Observatory	Mr. FAZLIAKHMETOV, Almaz	
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[327] Kink solutions in a family of polynomial models	Mr. MALNEV, Alexander	
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[254] Determination of the radii of states in the 11-14 MeV excitation region in the $^9\text{Be}$ nucleus	STARASTSIN, Viktor	
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[88] Compact extra dimensions as the source of primordial black holes	KRASNOV, Maxim	
[309] The role of metallicity in Compact binary merger Formation	ROY CHOWDHURY, Sourav	
[312] Can we create time-machine ?	Mr. KURYAN, Victor	
[226] Entropy production scenarios within SM and BSM Physics	CHAUDHURI, Arnab	
[90] Possibility of weakening the constraint on abundance of primordial black holes from Eridanus II	Mr. KRASNOV, Maxim	
[109] The semiclassical limit of a closed isotropic model of the Universe with a scalar field	KISLYAKOVA, Darya	
[221] Modified spatial distribution of dark matter as solution to gamma-ray problem of positron anomaly explanation	RAKHIMOVA, Manzura	
[199] Renyi Entropy and Corrections On Newton's law of Gravity and Friedmann Equations	FAZLOLLAHI, Seyed Hamidreza	
[301] Scaling properties of anisotropic flow at Nuclotron-NICA energies	PARFENOV, Peter	
[295] Search for $^{9,10}\text{He}$ heavy isotopes in stopped pion absorption reaction by $^{14}\text{C}$	LEONOVA, Tatiana	
[103] Study of the spectators charge distributions in event generators for the BM@N experiment	ZHEREBTSOVA, Elizaveta	
[133] Simulation studies of the Lead-Polyesterene SPACAL prototype for the LHCb ECAL Upgrade II	SHMANIN, Evgenii	
[197] Noble Element Simulation Technique	KOZLOVA, Ekaterina	

# Thursday 01 December 2022

## Poster Session - Hall (13:00-13:30)

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[112] Study of deuteron-proton elastic scattering at intermediate energies.	LADYGINA, Nadezhda	
[111] MPD TPC alignment	Dr. KUZMIN, Valentin	
[246] Radiation damage of SiC detectors irradiated with Xe ions and neutrons	Dr. EVSEEV, Sergey	
[182] Thulium-containing bolometer for solar axion resonant absorption search	DRACHNEV, ilia	
[153] On thermal equilibrium of relativistic electron beam	Dr. BARMINOVA, Helen	
[65] Search for EC/EC-capture of $^{58}\text{Ni}$ on excited states of $^{58}\text{Fe}$ .	Dr. KAZALOV, Vladimir	
[20] Application of thin organic scintillator to study fragmentation of $^{12}\text{C}$ nuclei under the action of relativistic muons	ZAITSEV, A	
[48] SOLITONS IN SOLUTIONS OF HYDRODYNAMICS EQUATIONS IN DESCRIBING COLLISIONS AND OSCILLATIONS OF ATOMIC NUCLEI	Prof. D'YACHENKO, Alexander	
[229] Software and hardware complex for calibrating optical modules of Cherenkov neutrino telescopes	KARETNIKOVA, Tatyana KHOKHLOV, Semyon	
[154] Analysis of the dynamics of a beam with elliptical cross-section in a solenoid	Dr. BARMINOVA, Helen	
[200] Sea acoustic neutrino detector which placed at small depth	KARAEVSKY, Sergey	
[173] Simulation of self-focused electron beam in a pyroelectric accelerator	SHAPOVALOV, Pavel	
[356] ANALYSIS OF ISOTOPE COMPOSITION IN A SAMPLE OF HIGH-TEMPERATURE SUPERCONDUCTORS (HTS) AFTER THEIR IRRADIATION WITH PROTONS WITH AN ENERGY OF 660 MeV	STEGAYLOV, Vladimir Il'ich	
[113] Charged and Neutral Pion polarizability measurement in the CPP/NPP experiments.	Dr. LARIN, Ilya Dr. TARASOV, Victor V	
[23] Three particle muon-electron bound systems in the variational approach	ESKIN, Alexey	
[15] Probing of charmonium and exotics in hadron and heavy ion collisions	Prof. BARABANOV, Mikhail	
[308] Various aspects of QCD and 2 color QCD phase diagrams with non-zero chiral imbalance	ZHOKHOV, Roman	
[369] Possibility of investigations of primary cosmic rays by means of coordinate-tracking detector on the Earth's surface	ZADEBA, egor	
[232] The characteristics of fast scintillation detectors of time of flight and anticoincidence system of space-based gamma-ray telescope GAMMA-400 with silicon photomultipliers readout	ARKHANGELSKIY, Andrey	
[288] Linearity of a scintillation crystals response	Prof. SALAKHUTDINOV, Gayar Mr. NAUMOV, Peter	
[337] Transverse momentum distributions and pt-Nch correlations in Extended Multipomeron Exchange Model	MAROVA, Aleksandra	
[358] Fundamental and applied physics with reactor neutrinos	Mr. ROZOV, Sergey	
[253] Charge radii and magnetic moments of isotopes near N=126 neutron shell.	Mr. KHUDOV, Alexander	

<b>[142] On stable exponential cosmological type solutions with three factor spaces in Einstein-Gauss-Bonnet model with a Lambda-term</b>	IVASHCHUK, Vladimir	
<b>[275] The F(R) inflationary models with <math>R^{3/2}</math>-term</b>	VERNOV, Sergey	
<b>[223] The dual model of inertial particles and interaction fields can be falsified by calibrated energy transport</b>	Dr. BULYZHENKOV, Igor	
<b>[373] What Machine Learning can do for a Focusing Aerogel Detectors</b>	SHIPILOV, Foma RATNIKOV, Fedor	
<b>[51] Evidence of large potassium abundance in the Earth from new Borexino data</b>	SINEV, Valery	
<b>[41] News of Quark-Gluon Model: baryonium DM in stratosphere and proton spectrum from the SMBHs.</b>	Dr. PISKOUNOVA, Olga	
<b>[40] PREVENTION OF GEO-EFFECTIVE PHENOMENA ARISING FROM SOLAR ACTIVITY</b>	Dr. YUROV, Vitaly	
<b>[16] State-of-art imaging in nuclear track emulsion</b>	ZARUBINA, Irina	