

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

Monday, 20 September 2021

Poster session (Mixed): Nuclear medicine, study of cultural heritage, plasma physics, neutrino and astrophysics (18:05 - 20:00)

[id] title	presenter	board
[232] Study of the silvering process of ancient Roman coins using nuclear-physical methods and complementary techniques	Dr SOZONTOV, Evgeny	
[140] STRONTIUM ISOTOPE EVIDENCES	Mr AGARWAL, NARAYAN PRASAD	
[136] SIMULATIONS EXAMINE PERFORMANCE OF PURE BORON, BORON CARBIDE, HIGH-DENSITY CARBON AND BORON NITRIDE ABLATORS—THE MATERIAL	Mr AGARWAL, NARAYAN PRASAD	
[128] ION CHANNELS AND NUCLEAR PORE CHANNEL GATING	Mr AGARWAL, Narayan Prasad	
[123] Generation of radiation effects from high-energy gamma quanta during irradiation of biological objects at the medical linear accelerator ELEKTA AXESSE	BIGELDIYEVA, Mirgul	
[316] Influence of high-energy proton and gamma-radiation on DNA structure in solution	PASTON, Sofia	
[145] Investigation of the effect of fixation devices on dose delivery in radiation therapy of head tumors.	Mr SMIRNOV, Georgii	
[240] Simulation of Prompt Gamma Imaging in Hadron Therapy	NEMNYUGIN, Sergei	
[289] THE LEVEL OF THE URANIUM, RADIUM, AND OTHERS RADIONUCLIDES CONCENTRATION IN OBJECTS OF ENVIRONMENT AND BIOOBJECTS IN POWERFUL INDUSTRIAL CENTER	DYKYI, Mikola	
[113] Topology of distribution of natural radioactivity on the surface of the human body	ZARIPOVA, Yuliya	
[302] Precision measurements of ^{144}Ce - ^{144}Pr beta-spectra with Si(Li)-spectrometer	Prof. DERBIN, Alexander	
[114] Sensitivity of r-process simulation to choice of the mass model	NEGREBETSKIY, Vasily	

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Tuesday, 21 September 2021

Poster session (Experimental and theoretical studies of the properties of atomic nuclei) (18:00 - 20:00)

[id] title	presenter	board
[217] Nucleon density profiles and nucleus-nucleus interaction potential	Mr SIMONOV, Makar	
[112] Diffraction processes in elastic scattering of 16-O by medium nuclei	Dr DYACHKOV, Vyacheslav	
[103] Alpha decay characteristics of superheavy elements	MOSTAKOV, Ivan	
[73] Study of ground states of 13,14C, 13,14N, 14O nuclei by Feynman's continual integrals	SAMARIN, Viacheslav	
[61] Collisional quenching of the pionic helium long-lived states	Dr KORENMAN, Grigoriy YUDIN, Sergey	
[51] THE ALIGNMENT OF THE ${}^{16}\text{O}$ ($E_{\alpha} = 6.131$ MeV) NUCLEUS FORMED IN SOME NUCLEAR REACTIONS AT $E_x \approx 7.5$ MeV/NUCLEON	ZELENSKAYA, Nataliia	
[43] CALCULATIONS OF THE OCTOPOLE DEFORMATION OF RADIUM AND THORIUM ISOTOPES IN THE HARTREE-FOCK-BOGOLYUBOV APPROXIMATION WITH SKYRME FORCES	TARASOV, Vyacheslav	
[35] STRUCTURE OF LEVELS AND ELECTROMAGNETIC TRANSITION RATES IN ODD-ODD NUCLEI CLOSE TO DOUBLY-MAGIC NEUTRON DEFICIENT ${}^{100}\text{Sn}$	ISAKOV, Vadim	
[31] THE INFORMATION SYSTEM MASCA FOR CALCULATION AND GRAPHICAL REPRESENTATION OF ATOMIC MASSES, BINDING ENERGIES OF NUCLEI, ENERGIES OF SEPARATIONS AND NUCLEAR DECAYS, ENERGY THRESHOLDS OF NUCLEAR REACTIONS	MITROPOLSKY, I.A.	

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Wednesday, 22 September 2021

Poster session (Experimental and theoretical studies of nuclear reactions) (18:05 - 20:00)

[id] title	presenter	board
[221] INVESTIGATION OF CONTINUOUS SPECTRA OF LIGHT CHARGED PARTICLES EMITTED IN PROTON INDUCED REACTION ON ^{103}Rh NUCLEUS AT 22 MeV ENERGY	ZHOLDYBAYEV, Timur	
[170] Study of the reaction based on the scattering of deuterons by a ^9Be nucleus at an energy of 23 MeV	STARASTSIN, Viktor	
[206] Spectroscopic factor for $^{25}\text{Mg} \rightarrow ^{24}\text{Mg} + n$ through the "experimental" ANC from analysis of the peripheral transfer reactions.	TOJIBOEV, Olimjon	
[228] EXCITATION OF ISOMERIC STATES IN (γ, n) , $(n, 2n)$ AND (n, γ) REACTIONS ON $^{120,122,128,130}\text{Te}$ NUCLEI	Prof. PALVANOV, Satimbay	
[227] STUDY EXCITATION OF ISOMERIC STATES IN (γ, n) AND $(n, 2n)$ REACTIONS ON ^{82}Se , ^{81}Br AND ^{90}Zr	Dr EGAMOVA, Feruza	
[187] EXPERIMENT FOR DETERMINING np-SCATTERING LENGTH IN THE $n + d \rightarrow (np) + n$ REACTION	MORDOVSKOY, Michael	
[149] Analysis of production of forward-angle fragments in the $^{22}\text{Ne} + \text{Be/Ta}(40 \text{ MeV/nucleon})$ nuclear reactions.	BATCHULUUN, Erdemchimeg	
[317] Investigation of heavy-ion fusion reaction with formation of medium mass nuclei at low energies	TORILOV, Sergey	
[90] New set of optical parameters for neutron scattering on ^{12}C nuclei	DASHKOV, Ilya	
[60] PROBING ISOSCALING TO DETERMINE THE NUCLEAR TEMPERATURE IN LOW-ENERGY FISSION	Dr ANDRONENKO, Lyudmila	
[173] Study of four-neutron correlations in cluster decay of ^{12}Be highly-excited states on RADEX channel	SKORKIN, Vladimir	
[325] Preliminary results of the study of gamma-ray transitions in ^{11}C and ^{11}B nuclei in $^9\text{Be}(^3\text{He}, n)^{11}\text{C}$ and $^9\text{Be}(^3\text{He}, p\gamma)^{11}\text{B}$ reactions	ILIASOVA, Margarita	
[253] Analysis for $^6\text{Li} + ^{12}\text{C}$ elastic scattering using different potentials	AMER, Ahmed	
[309] Proton-capture measurements on stored radioactive ions for the p-process nucleosynthesis	Dr VARGA, Laszlo	
[269] ЦИФРОВАЯ ЭЛЕКТРОНИКА 2.0 ДЛЯ ПОСТРОЕНИЯ ПОЛНОСТЬЮ ОЦИФРОВАННЫХ СИСТЕМ СБОРА И ОБРАБОТКИ ДАННЫХ	BREDIKHIN, Ivan	

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Thursday, 23 September 2021

Poster session (Relativistic nuclear physics, elementary particle physics and high-energy physics) (19:00 - 20:00)

[id] title	presenter	board
[13] 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	Prof. D'YACHENKO, Alexander	
[373] Extended multipomeron exchange model for pp, pA and AA collisions	KOVALENKO, Vladimir	
[372] COMPARISON OF SOME CHARACTERISTICS OF CHARGED PIONS IN $P\bar{P}$ AND $N\bar{N}$ COLLISIONS AT 4.2 GEV/C	BEKMIRZAEV, Rakhmatulla	
[351] Kinematic approach for nuclei coalescence in transport models	SANDUL, Vladislav	
[348] Early Universe Expansion of Quark Gluon Plasma with Quasi-Particle Approach	Mr KUMAR, Luv	
[318] Emission of two gamma ray photon from quark-gluon plasma with chemical potential	Mr KUKSAL, Gaurang	
[264] Transverse sphericity dependence of elliptic flow and application of machine learning tools in heavy-ion collisions at the LHC using AMPT model	Mr MALLICK, Neelkamal	
[99] About leptons in theory of space-time film	CHERNITSKII, Alexander	
[46] METHOD FOR RECONSTRUCTION THE SPECTRA OF SHORT-RANGE CHARGED PARTICLES IN STOPPED π^- -MESON ABSORPTION BY NUCLEI	Prof. GUROV, Yu. B.	
[44] RECONSTRUCTION OF THE ELECTRON SPECTRUM FROM DEPTH DOSE DISTRIBUTION WITH THE MODIFIED TIKHONOV REGULARIZATION	IPATOVA, Victoria	
[394] Эффективное действие Липатова и иерархия Балицкого	ПОЗДНЯКОВ, Семен	
[271] Proton spectra in HE proton-proton collisions recalculated to laboratory system: the specifics that are reproduced in spectra of astrophysical protons, gamma and neutrino.	PISKUNOVA, Olga	

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Friday, 24 September 2021

Poster session: Modern nuclear physics methods and technologies (17:00 - 20:00)

[id] title	presenter	board
[285] Spatial distributions of radon isotopes in the Tien Shan (Almaty region) foothill regions and in the Neva lowland (St Petersburg region)	DYACHKOV, Vyacheslav	
[374] Studies of radionuclide concentrations in the sediment samples from the St. Petersburg rivers	Prof. OPEKUNOV, Anatoly PICHUGINA, Daria	
[326] The application of gamma-spectrometry with a germanium detector for oil and ore geology.	MAKAROVA, Irina	
[95] The effect of soil depth on the radiation absorption parameters of soil samples	Dr EKE, Canel	
[357] Advanced technologies of radiation transparent support structures for novel thin silicon detectors.	MISHENEVA, Vera	
[356] Ultra-lightweight materials and cooling systems for the new detector complexes with the highest radiation transparency	MISHENEVA, Vera	
[276] Study of fission fragment's brake-up at passing through solid-state foils using Timepix3 pixel detectors (investigation project)	Mr SOLODOV, A.N.	
[71] Characteristics of SiC detectors after neutron irradiation	EVSEEV, Sergey	
[194] Degradation of Si-based detectors parameters under long-term irradiation by ^{252}Cf fission products at room and liquid nitrogen temperatures	Mr MIKULICH, Maksim	
[40] SiC Nuclear Radiation Detectors for Detection of Heavy Ions	Dr HRUBČÍN, Ladislav Prof. GUROV, Yuriy	
[87] The INTRINSIC ENERGY RESOLUTION of a SCINTILLATION DETECTOR	SAMEDOV, Victor	
[242] TPC status of MPD/NICA	BAZHAZHIN, Aleksey	
[324] High gain MCPs with monolayers of Al_2O_3 for Fast Beam-Beam Collisions Monitor at NICA	KALINICHENKO, Nikolay	
[256] Nuclear fragments reconstruction in C-p reactions in the SRC setup of the BM@N experiment.	DRIUK, Andrei	
[299] Research, development, and test the monitoring system prototype of the electromagnetic calorimeter for MPD experiment.	DURUM, Artur	
[288] PROPERTIES AND COMPOSITION OF NATURAL QUARTZITES AFTER THE IRRADIATION BY GAMMA RADIATION	Dr DYKYI, Mikola	
[42] Real time fast neutron flux monitoring with diamond radiation detector	IBRAGIMOV, Renat	
[266] New time pick-off algorithm for time-of-flight measurements with PIN diodes	GORYAINOVA, Zoya	
[298] Modeling of Cherenkov radiation in semi-classical approach	VALIEV, Farkhat	
[349] Monitoring, Alarm and Control System for the ELIADE γ -ray spectrometer	NITESCU, George	

[77] INVESTIGATION OF PLUTONIUM NITRIC ACID SOLUTIONS WITH UNKNOWN ISOTOPIC COMPOSITION BY ALPHA AND GAMMA SPECTROSCOPY	Mr BELOV, Sergei	
[207] Delayed emission of electrons in a photomultiplier.	Dr МОРОЗОВА, Наталья	
[300] EJ-276 based neutron spectrometer with neutron-gamma pulse shape discrimination maximum load experimental estimation	URUPA, Iliia	
[21] DISTRIBUTION COEFFICIENTS OF ELEMENTS IN THE SYSTEM OF CATION EXCHANGE RESIN - SELENOUS ACID	RAKHIMOV, Alimardon	
[19] Validation of ENDF/B-7.1 nuclear library on calculations of PIK-04 critical experiments	ONEGIN, Mikhail	
[130] TRANSMISSION EFFICIENCY OF ISOTROPICALLY EMITTED NUCLEAR DECAY AND REACTION PRODUCTS FROM THE RADIOACTIVE SOURCE	SIMONOVSKI, Dimitar	
[164] Study of the GR-280 reactor graphite surface structure in the view of perspective ion-plasma deactivation technology	Dr PETROVSKAYA, Anna	
[327] A Library Least Square approach in the Prompt-Gamma Neutron Activation Analysis (PGNAA) process in bulk coal samples	Mr KOLBIN, Ilya	
[328] RADIOCHEMICAL METHOD OF INCREASING THE ACCURACY OF MEASURING THE RADIUM CONTENT IN URANIUM ORE	ИГНАТЬЕВА, Галина	
[56] APPLICATION OF NUCLEAR SPECTROSCOPY METHODS FOR ANALYTICAL SUPPORT AND CORRECTION OF THE EXPERIMENT ON LIQUID EXTRACTION OF TPE AND REE	VERKHOVSKAYA, Ekaterina	