

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

Monday, 20 September 2021

Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics (13:35 - 18:05)

-Conveners: Evgeny Andronov

time	[id] title	presenter
13:35	[55] Short range correlations investigated by DSS collaboration in deuteron involved reactions	JANEK, Marian
14:00	[88] Thermal multifragmentation in C + Au interactions at 22 GeV incident energies	Dr AVDEYEV, Sergej
14:25	[7] Experimental study of the $e+e- \rightarrow n \text{ anti-}n$ process at the VEPP-2000 $e+e-$ collider with the SND detector	SEREDNYAKOV, Sergey
14:50	[85] QUASI-ELASTIC KNOCKOUT OF NUCLEON FROM THE SHORT-RANGE NN CORRELATION AND RESCATTERINGS IN THE REACTION $^{12}\text{C}+p \rightarrow ^{10}\text{A}+pp+N$	UZIKOV, Yuriy
15:15	[396] Cold Superdense Baryonic Component of Nuclear Matter	SHIMANSKIY, S.S.
15:40	Coffee break	
16:00	[74] A possibility to register associated pair production of hadrons and light nuclei in a kinematically forbidden region in AA-interactions on the FODS double arm spectrometer at the U-70 accelerator complex (The Monte Carlo simulation)	BOGOLYUBSKY, Mikhail
16:25	[10] DESCRIPTION OF THE SPECTRA OF CUMULATIVE PROTONS, PIONS AND PHOTONS IN COLLISIONS OF HEAVY IONS WITH INTERMEDIATE ENERGY BASED ON THE HYDRODYNAMIC APPROACH	Prof. D'YACHENKO, Alexander
16:50	[237] Quark-Gluon Plasma is appeared in collisions of medium nuclei at higher energies than in heavy ion interactions	Prof. V. UZHINSKY AND A. GALOYAN
17:15	[15] z-Scaling and Search for Signatures of Phase Transition in Nuclear Matter	Prof. TOKAREV, Mikhail
17:40	[89] Correlation in ^8Be nuclei formation and α -particle multiplicities in fragmentation of relativistic nuclei	ZAITCEV, Andrei

Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics: Flow (13:35 - 18:05)

-Conveners: Vladislav Sandul

time	[id] title	presenter
13:35	[124] Proton directed flow relative to the spectator plane in Ag+Ag collisions at 1.23A and 1.58A GeV with HADES	MAMAEV, Mikhail
14:00	[152] Scaling of collective flow of charged and identified hadrons in Au+Au collisions at $\sqrt{s_{NN}} = 11.5 - 62.4$ GeV from the STAR experiment	POVAROV, Alexey
14:25	[166] Search for the Chiral Magnetic Wave using the ALICE detector in Pb--Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV	DAS, Prottoy
14:50	[197] Study of the beam energy dependence of anisotropic flow in relativistic heavy ion collisions using scaling relations.	TARANENKO, Arkadiy
15:15	[188] Anisotropic flow at energies $\sqrt{s_{NN}} = 2-11$ GeV	Mr PARFENOV, Peter

15:40	Coffee break	
16:00	[47] Performance of the CBM experiment at FAIR for measurement of charged hadron anisotropic flow	GOLOSOV, Oleg
16:25	[92] CBM performance for the measurement of Λ hyperon's directed flow in Au+Au collisions at FAIR SIS-100 energies	Mr LUBYNETS, Oleksii
16:50	[159] Relative elliptic flow fluctuations at NICA energy regime	LUONG, Vinh
17:15	[239] A multiharmonic/large-order flow cumulant analysis for relativistic heavy-ion collisions	TAGHAVI, Seyed Farid
17:40	[196] The effect of different centrality determination on the elliptic flow measurements	IDRISOV, Dim

Tuesday, 21 September 2021

Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics (13:50 - 18:00)

-Conveners: Igor Altsybeev

time	[id] title	presenter
13:50	[135] Soft-QCD studies in ALICE: focus on forward particle multiplicities and the underlying event	CHRISTENSEN, Christian Holm
14:15	[341] Collective dynamics of heavy ion collisions in ATLAS	TRZUPEK, Adam
14:40	[212] Global polarization of Λ hyperons in Au+Au collisions in the STAR experiment	ALPATOV, Egor
15:05	[340] Hard probes of heavy ion collisions with ATLAS	KRIVOS, Martin
15:30	[200] Jet substructure measurements with ALICE	VERTESI, Robert
15:55	Coffee break	
16:15	[179] Production of $K^*(892)^0$ mesons in small collision systems at PHENIX experiment	BORISOV, Vladislav
16:40	[176] Measurement of charged hadron production in relativistic ion collision systems	Ms LARIONOVA, Daria
17:05	[155] Investigation of light flavor particle production at the MPD experiment	APARIN, Alexey
17:30	[279] Energy and mass dependencies for the characteristics of p_T regions observed at LHC energies	Prof. MAIS, Suleymanov

Wednesday, 22 September 2021**Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics: Centrality, BM@N/NICA physics (13:30 - 18:00)****-Conveners: Valerii Kondratev**

time	[id] title	presenter
13:30	[163] Methods for centrality determination in heavy-ion collisions with the CBM experiment	SEGAL, Ilya
13:55	[305] Spectator matter in collisions of relativistic deformed nuclei	KOZYREV, Nikita
14:20	Contribution cancelled	
14:45	[310] Cluster formation in spectator matter in collisions of relativistic nuclei	Mr NEPEIVODA, Roman
15:10	Coffee break	
15:30	[223] The identification capability of the Inner Tracking System for the detection of D-mesons at the NICA/MPD	Dr MALTSEV, Nicolai
15:55	[120] Probing the Gluon Helicity Distribution at SPD	DATTA, Amaresh
16:20	[213] Feasibility studies of tau-lepton anomalous magnetic moment measurements with ultra-peripheral collisions at the LHC	BURMASOV, Nazar
16:45	[72] A Monte Carlo simulation of the BM@N detector performance for strangeness production studies in heavy-ion interactions	ZINCHENKO, Alexandre
17:10	[76] Performance evaluation of the Stage-I Inner Tracking System for hyperon reconstruction at MPD/NICA	Mrs SUVARIEVA, Dilyana
17:35	[214] Prospects of photon conversion measurements in the future MPD experiment at NICA	KRYSHEN, Evgeny

Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics: QCD; theory (13:30 - 18:00)**-Conveners: Daria Prokhorova**

time	[id] title	presenter
13:30	[195] A LIGHT-FRONT AdS/QCD QUARK-DIQUARK NUCLEON MODEL IN PROTON-PROTON AND HEAVY-ION COLLISIONS	RODRIGUEZ-AGUILAR, Benjamin
13:55	[209] Effective models of hadrons in Quantum Field Theory on the Light Front	LEBEDEV, Igor
14:20	[126] Theory of holographic models for linear Regge trajectories and its applications	SOLOMKO, Timofey
14:45	[331] Large rapidity gap events in proton-nucleus collisions at LHC energies	NASYBULIN, Sergey
15:10	Coffee break	
15:30	[314] Dynamic Strong Magnetic Field for Quark Gluon Plasma Equation of State	Dr KUMAR, Yogesh
15:55	[208] Theoretical limitations of amplitudes and their decisive influence on the parameters of resonances	Dr ROBERT, Kaminski
16:20	[346] On the Possibilities of Using the Basic Principles of Quantum Field Theory for Modeling the Interaction of Neutrinos with a Strongly Inhomogeneous Medium	PISMAK, Yury
16:45	[158] Multidimensional spinors and Dirac equation in the theory of superalgebraic spinors	Prof. MONAKHOV, Vadim

17:10	End of session	
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Thursday, 23 September 2021

Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics: Higgs physics (15:00 - 19:00)

-Conveners: **Andrey Seryakov**

time	[id] title	presenter
15:00	[83] CMS Higgs results	SAHA, Prafulla
15:25	[336] Higgs boson measurements in its decays into bosons with the ATLAS experiment	LI, Heng
15:50	[337] Higgs boson measurements in couplings to quarks and leptons with the ATLAS experiment	HORII, Yasuyuki
16:15	[165] CMS Top Results	DAS, Alope Kumar
16:40	Coffee break	
16:55	[2] Searches for heavy Higgs bosons in the framework of 2HDM model	Dr OBIKHOD, Tetiana
17:20	[338] Combined Higgs boson measurements and their interpretations in Effective Field Theories and new physics models with the ATLAS experiment	BECHERER, Fabian
17:45	[339] Searches for low- and high-mass Higgs-like resonances with the ATLAS detector	PASCUAL DOMINGUEZ, Luis
18:10	End of session	

Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics: LF,CF (15:00 - 19:00)

-Conveners: **Evgeny Andronov**

time	[id] title	presenter
15:00	[263] Study of neutral and charged pions fluctuations with ALICE experiment	NEKRASOVA, Evgeniia
15:25	[235] Multiplicity dependence of pion-emitting source size in p+Au and d+Au collisions at $\sqrt{s_{NN}} \sim 200$ GeV in STAR experiment	KHYZHNIAK, Eugenia
15:50	[129] Accessing the genuine three-baryon interactions via femtosopic studies in pp collisions at $\sqrt{s} = 13$ TeV with ALICE	ŠERKŠNYTĚ, Laura
16:15	[355] Angular correlations of particle yield ratios	ALTSYBEEV, Igor
16:40	Coffee break	
16:55	[303] Study of multiplicity and transverse momentum fluctuations in the Monte-Carlo model of interacting quark-gluon strings	PROKHOROVA, Daria
17:20	[157] Strongly intense observables as a tool for studying clusters of quark-gluon strings in relativistic hadronic interactions	BELOKUROVA, Svetlana
17:45	[280] Correlation of cumulative particle production with strange and heavy-flavor particle yields in the string fusion model	VECHERNIN, Vladimir
18:10	[345] Combinant analysis of multiplicity distributions in p+p interactions in multipomeron exchange model	ANDRONOV, Evgeny
18:35	End of session	

Friday, 24 September 2021

Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics: LHC (13:00 - 17:00)

-Conveners: Igor Altsybeev

time	[id] title	presenter
13:00	[52] CMS SUSY and Exotica results	MISHRA, Tribeni
13:25	[156] Measurement of the antinuclei inelastic cross sections with ALICE and implications for indirect Dark Matter searches	LARIONOV, Pavel
13:50	[141] Estimation of electron-to-photon misidentification rate in $Z(\nu\nu)\gamma$ measurements for conditions of ATLAS experiment during Run II	KUROVA, Anastasia
14:15	[148] An improved selection optimization method used for the measurement of ZZ production under conditions of ATLAS experiment during LHC Run II.	ZUBOV, Dmitriy
14:40	Coffee break	
14:55	[18] CMS Standard Model Results	SHALAEV, Vladislav
15:20	[84] Overview on heavy-flavour results from the ALICE experiment	Dr COLAMARIA, Fabio
15:45	[335] ATLAS results on charmonium production	XU, Yue
16:10	[211] Review on charmonium nuclear modification factor and flow coefficients in Pb-Pb and p-Pb collisions with ALICE	PERRIN, Sebastien
16:35	End of session	

Saturday, 25 September 2021**Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics (14:00 - 18:50)****-Conveners: Vladimir Kovalenko**

time	[id] title	presenter
14:00	[342] Ultra-peripheral physics with ATLAS	HAMDAOUI, Hassane
14:25	[125] Hadronic resonances as probes of the late hadronic phase in heavy-ion collisions at NICA energies	IVANISHCHEV, Dmitry
14:50	[63] Investigation of the dp-breakup reaction at intermediate energies at Nuclotron	MEZHENSKA, Olena
15:15	Coffee break	
15:35	[12] NON-EQUILIBRIUM HYDRODYNAMIC APPROACH AND COLLISION OF ATOMIC NUCLEI IN APPROXIMATION OF THE KORTEVEG-DE VRIES SOLITONS	Prof. D'YACHENKO, Alexander
16:00	[293] Chemical potential effect on dual photon radiation in relativistic heavy ion collision	Dr KUMAR, Yogesh
16:25	[54] Generating function for nucleus-nucleus scattering amplitudes in Glauber theory	Dr SHUVAEV, Andrei
16:50	[359] Influence of chiral imbalance on color superconductivity phenomenon	ZHOKHOV, Roman
17:15	[219] Study of spectator charge distributions in the HADES experiment for Ag+Ag@1.58AGeV and Au+Au@1.23AGeV	ZHEREBTSOVA, Elisaveta
17:40	[375] New effects in the Monte Carlo model of pp, pA and AA collisions with string fusion	Dr KOVALENKO, Vladimir
18:05	End of session	