

XXIV International Baldin Seminar on High Energy Physics Problems ”Relativistic Nuclear Physics and Quantum Chromodynamics”



XXIV International Baldin Seminar
on High Energy Physics Problems
Relativistic Nuclear Physics & Quantum Chromodynamics
September 17 - 22, 2018, Dubna, Russia

Report of Contributions

Contribution ID: 5

Type: **not specified**

Exotic quarkonium at e+e- colliders

Tuesday, 18 September 2018 09:20 (40 minutes)

Presenter: PAKHLOVA, Galina (MIPT, LPI RAS)

Session Classification: Plenary

Contribution ID: 6

Type: **not specified**

PENTAQUARK AND HYBRID STATES

Tuesday, 18 September 2018 08:00 (40 minutes)

Primary author: SANTOPINTO, Elena (INFN Genoa)

Presenter: SANTOPINTO, Elena (INFN Genoa)

Session Classification: Plenary

Contribution ID: 7

Type: **not specified**

Exotic hadrons with heavy quarks: experimental perspective

Tuesday, 18 September 2018 08:40 (40 minutes)

Presenter: Prof. SKWARNICKI, Tomasz (Syracuse University)

Session Classification: Plenary

Contribution ID: 8

Type: **not specified**

NUCLEON STRUCTURE STUDIES WITH THE PANDA EXPERIMENT AT FAIR

Tuesday, 18 September 2018 10:30 (30 minutes)

Presenter: Dr DBEYSSI, Alaa (Helmholtz-Institut Mainz)

Session Classification: Plenary

Contribution ID: 9

Type: **not specified**

Recent results from the BESIII experiment

Tuesday, 18 September 2018 11:00 (40 minutes)

Presenter: Dr BOYKO, Igor (JINR)

Session Classification: Plenary

Contribution ID: **10**

Type: **not specified**

Multiquark configurations in baryons and nuclei

Saturday, 22 September 2018 10:00 (40 minutes)

Presenter: Dr SHIMANSKIY, Stepan (JINR)

Session Classification: Plenary

Contribution ID: 11

Type: **not specified**

Recent results from strong interaction program of NA61/SHINE experiment at CERN SPS

Thursday, 20 September 2018 08:00 (40 minutes)

Presenter: Prof. MELKUMOV, Georgy (Joint Institute for Nuclear Research (JINR, Dubna))

Session Classification: Plenary

Contribution ID: 12

Type: **not specified**

Anisotropic flow measurement from NA61/SHINE and NA49 experiments at CERN SPS

Thursday, 20 September 2018 14:30 (30 minutes)

Presenter: Mr GOLOSOV, Oleg (MEPhI)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 13

Type: **not specified**

Hadronic resonance production with ALICE at the LHC

Friday, 21 September 2018 14:00 (30 minutes)

Presenter: Dr KISELEV, Sergey (ITEP)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 14

Type: **not specified**

Chiral study of the four-quark state $f_0(500)$ in pion-pion and pion-nucleon scattering

Thursday, 20 September 2018 09:40 (20 minutes)

Presenter: LAKASCHUS, Phillip (Institute for theoretical physics, Frankfurt am Main)

Session Classification: Plenary

Contribution ID: 15

Type: **not specified**

PROGRESS IN EXPERIMENTAL STUDIES OF THE BGO-OD COLLABORATION AT BONN

Tuesday, 18 September 2018 11:40 (30 minutes)

Presenter: Prof. NEDOREZOV, Vladimir (INR RAN)

Session Classification: Plenary

Contribution ID: 16

Type: **not specified**

Critical remarks on the determination of the proton radius

Wednesday, 19 September 2018 11:30 (30 minutes)

Presenter: Mrs TOMASI-GUSTAFSSON, Egle (CEA Saclay)

Session Classification: Plenary

Contribution ID: 17

Type: **not specified**

Proton radius puzzle: experiment vs theory

Wednesday, 19 September 2018 11:00 (30 minutes)

Presenter: Prof. DOROKHOV, Alexander (JINR)

Session Classification: Plenary

Contribution ID: **18**

Type: **not specified**

Status of neutrino oscillations

Wednesday, 19 September 2018 08:00 (40 minutes)

Presenter: Prof. KUDENKO, Yury (INR, Moscow)

Session Classification: Plenary

Contribution ID: 19

Type: **not specified**

Overview of ALICE results on ultra-peripheral collisions

Thursday, 20 September 2018 09:10 (30 minutes)

Presenter: Dr KRYSHEN, Evgeny (NRC "Kurchatov Institute", Petersburg Nuclear Physics Institute)

Session Classification: Plenary

Contribution ID: 20

Type: **not specified**

Probing QCD with the ATLAS detector

Tuesday, 18 September 2018 12:10 (20 minutes)

Presenter: Ms CABRAS, Grazia (University of Bologna and INFN)

Session Classification: Plenary

Contribution ID: 21

Type: **not specified**

CMS: Physics Overview

Thursday, 20 September 2018 10:30 (40 minutes)

Presenter: Dr ALEXAKHIN, Vadim (JINR)

Session Classification: Plenary

Contribution ID: 22

Type: **not specified**

Status of NICA-SPIN Program

Monday, 17 September 2018 12:00 (30 minutes)

Presenter: Prof. KOVALENKO, Alexander (JINR)

Session Classification: Plenary

Contribution ID: 23

Type: **not specified**

EXPLORING THE RELATIVISTIC BOUND STATE STRUCTURE IN MINKOWSKI SPACE: APPLICATIONS TO HADRONS

Wednesday, 19 September 2018 09:20 (40 minutes)

Presenter: Prof. FREDERICO, TOBIAS (Instituto Tecnológico de Aeronautica)

Session Classification: Plenary

Contribution ID: 24

Type: **not specified**

BOUND STATES OF PURELY RELATIVISTIC NATURE

Thursday, 20 September 2018 11:50 (30 minutes)

Presenter: Dr KARMANOV, Vladimir (Lebedev Physical Institute)

Session Classification: Plenary

Contribution ID: 25

Type: **not specified**

Semi-Inclusive Deep Inelastic Scattering in Wandzura-Wilczek-type approximation

Thursday, 20 September 2018 11:10 (40 minutes)

Presenter: Prof. EFREMOV, Anatoly (BLTP, JINR)

Session Classification: Plenary

Contribution ID: 26

Type: **not specified**

**Δ -ISOBAR CONTRIBUTION TO THE PION
PRODUCTION IN THE REACTION $pp \rightarrow \{pp\}_s \pi^0$**

Thursday, 20 September 2018 12:20 (20 minutes)

Presenter: Prof. UZIKOV, Yury (Joint Institute for Nuclear Researches)

Session Classification: Plenary

Contribution ID: 27

Type: **not specified**

Exclusive studies of Short-Range Correlations in nuclei

Friday, 21 September 2018 08:00 (40 minutes)

Presenter: Dr PATSYUK, Maria (MIT)

Session Classification: Plenary

Contribution ID: 28

Type: **not specified**

The Compressed Baryonic Matter Experiment at FAIR

Friday, 21 September 2018 08:40 (40 minutes)

Presenter: KUGLER, Andrej (Nuclear Physics Institute CAS)

Session Classification: Plenary

Contribution ID: 29

Type: **not specified**

Recent results from PHENIX at RHIC

Friday, 21 September 2018 09:20 (40 minutes)

Presenter: Dr RIABOV, Viktor (PNPI)

Session Classification: Plenary

Contribution ID: 31

Type: **not specified**

Highlights from the STAR experiment

Friday, 21 September 2018 10:30 (40 minutes)

Presenter: Mr APARIN, Alexey (Joint Institute for Nuclear Research)

Session Classification: Plenary

Contribution ID: 33

Type: **not specified**

Hyperons at BM@N experiment: first results

Wednesday, 19 September 2018 08:40 (20 minutes)

Presenter: Mr POKATASHKIN, Gleb (JINR, LHEP)

Session Classification: Plenary

Contribution ID: 34

Type: **not specified**

The ideas of A.M.Baldin on overcoming the reductionism principle in relativistic physics

Monday, 17 September 2018 10:10 (40 minutes)

Presenter: BALDIN, Anton (JINR)

Session Classification: Plenary

Contribution ID: 35

Type: **not specified**

Overview of new exposures of nuclear track emulsion in the BECQUEREL experiment

Saturday, 22 September 2018 08:50 (30 minutes)

Presenter: Dr ZARUBIN, Pavel (Joint Institute for Nuclear Research)

Session Classification: Plenary

Contribution ID: 36

Type: **not specified**

Analytical description of hadron production in hadron-hadron and nuclear-nuclear collisions in the mid rapidity region

Saturday, 22 September 2018 08:00 (20 minutes)

Presenter: Prof. MALAKHOV, Aleksandr (JINR)

Session Classification: Plenary

Contribution ID: **38**

Type: **not specified**

$\pi J/\psi - D\bar{D}^*$ **potential described by the quark exchange diagram**

Wednesday, 19 September 2018 09:00 (20 minutes)

Presenter: Dr YAMAGUCHI, Yasuhiro (RIKEN)

Session Classification: Plenary

Contribution ID: 39

Type: **not specified**

DENSE COLD MATTER

Saturday, 22 September 2018 10:40 (20 minutes)

Presenter: Dr STAVINSKIY, Alexey (NRC "Kurchatov Institut" -ITEP/JINR)

Session Classification: Plenary

Contribution ID: 41

Type: **not specified**

Transition form-factor of pi gamma -> pi pi in nonlocal quark model

Monday, 17 September 2018 13:30 (20 minutes)

Presenter: Dr ZHEVLAKOV, Alexey (TSU)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 42

Type: **not specified**

Opening

Monday, 17 September 2018 09:00 (10 minutes)

Presenter: Prof. MATVEEV, Victor (JINR)

Session Classification: Plenary

Contribution ID: 43

Type: **not specified**

Welcome from VBLHEP Directorate

Monday, 17 September 2018 09:10 (10 minutes)

Presenter: Prof. KEKELIDZE, Vladimir (JINR)

Session Classification: Plenary

Contribution ID: 44

Type: **not specified**

Welcome from Dubna administration

Monday, 17 September 2018 09:20 (10 minutes)

Presenter: DANILOV, Maxim

Session Classification: Plenary

Contribution ID: 45

Type: **not specified**

Interaction of Quantum Systems with Environment in QCD

Monday, 17 September 2018 10:50 (30 minutes)

Presenter: Prof. KUVSHINOV, Viacheslav (JIPNR-Sosny NAS, Belarus)

Session Classification: Plenary

Contribution ID: 46

Type: **not specified**

Physics architecture. Part two

Monday, 17 September 2018 14:20 (20 minutes)

Presenter: Prof. KONOPLEVA, Nelly (Corporation "VNIIEM")

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 48

Type: **not specified**

DESCRIBING PHASE TRANSITIONS IN FIELD THEORY BY SELF-SIMILAR APPROXIMANTS

Monday, 17 September 2018 14:40 (30 minutes)

Presenter: Prof. YUKALOV, Vyacheslav (Bogolubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 49

Type: **not specified**

THE EFFECT OF FINAL STATE INTERACTIONS IN TWO-PION AND $K\bar{K}$ TRANSITIONS OF CHARMONIA AND BOTTOMONIA

Friday, 21 September 2018 13:30 (30 minutes)

Presenter: Dr SUROVTSEV, Yury (Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 50

Type: **not specified**

SPECTRA OF NEGATIVE PARTICLES IN Au+Au COLLISIONS FROM BES-I AT RHIC AND z-SCALING

Tuesday, 18 September 2018 13:30 (30 minutes)

Presenter: Prof. TOKAREV, Mikhail (Joint Institute for Nuclear Research)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 51

Type: **not specified**

Possible signals of two QCD phase transitions at NICA-FAIR energies

Monday, 17 September 2018 13:30 (30 minutes)

Presenter: Prof. BUGAEV, Kyrill (Bogolyubov Institute for Theoretical Physics, Kiev, Ukraine)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 52

Type: **not specified**

DETERMINATION OF CENTRALITY IN NUCLEUS – NUCLEUS COLLISIONS ON THE MPD/NICA INSTALLATION

Friday, 21 September 2018 13:30 (30 minutes)

Presenter: Prof. KUREPIN, Alexey (Institute for Nuclear Research)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 53

Type: **not specified**

PROPOSED FIXED TARGET EXPERIMENT AT THE LHC BEAMS

Monday, 17 September 2018 14:20 (20 minutes)

Presenter: Dr TOPILSKAYA, Nayaliya (Institute for Nuclear Research, RAS, Moscow)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 54

Type: **not specified**

Recent developments in particle yield fluctuation measurements

Monday, 17 September 2018 14:40 (20 minutes)

Presenter: Dr ALTSYBEEV, Igor (Saint-Petersburg State University)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 55

Type: **not specified**

Relativistic local equilibrium statistical mechanics and the transverse momentum distributions of hadrons

Monday, 17 September 2018 16:00 (30 minutes)

Presenter: Dr PARVAN, Alexandru (JINR and IFIN-HH)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 56

Type: **not specified**

TSALLIS STATISTICS AND HEAVY QUARK TRANSPORT IN QUARK GLUON PLASMA

Monday, 17 September 2018 16:30 (20 minutes)

Presenter: Dr BHATTACHARYYA, Trambak (University of Cape Town)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 59

Type: **not specified**

How to measure the linear polarization of gluons in unpolarized proton using the heavy-quark pair leptonproduction

Monday, 17 September 2018 16:20 (30 minutes)

Presenter: IVANOV, Nikolay (Veksler and Baldin Laboratory of High Energy Physics, JINR, Dubna, Russia)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: **60**

Type: **not specified**

Anisotropic Flow Measurements from LHC to SIS

Tuesday, 18 September 2018 13:30 (40 minutes)

Presenter: Dr TARANENKO, Arkadiy (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute))

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: **61**

Type: **not specified**

Recent flow and femtoscopy results from STAR

Tuesday, 18 September 2018 14:10 (20 minutes)

Presenter: Mr NIGMATKULOV, Grigory (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute))

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 63

Type: **not specified**

ETA-NUCLEI IN THE SCAN EXPERIMENT

Wednesday, 19 September 2018 14:10 (20 minutes)

Presenter: Ms MICHALICKOVA, Katarina (Faculty of Science, Pavol Jozef Safarik University in Kosice)

Session Classification: Parallel: Studies of exotic nuclei in relativistic beams

Contribution ID: 64

Type: **not specified**

SEARCH FOR ETA-MESIC NUCLEI IN THE SRC/BM@N EXPERIMENT AT THE NUCLOTRON

Wednesday, 19 September 2018 14:30 (20 minutes)

Presenter: Mr DRYABLOV, Dmitry (JINR)

Session Classification: Parallel: Studies of exotic nuclei in relativistic beams

Contribution ID: 65

Type: **not specified**

THE INFLUENCE OF COLLECTIVE EFFECTS ON THE ETA-MESIC NUCLEUS FORMATION

Wednesday, 19 September 2018 13:50 (20 minutes)

Presenter: Dr AFANASIEV, Sergei (JINR)

Session Classification: Parallel: Studies of exotic nuclei in relativistic beams

Contribution ID: 66

Type: **not specified**

Observation of the Hoyle-state in dissociation of relativistic ^{12}C nuclei in nuclear track emulsion

Wednesday, 19 September 2018 14:50 (20 minutes)

Presenter: Mr ZAITCEV, Andrei (JINR, LHE)

Session Classification: Parallel: Studies of exotic nuclei in relativistic beams

Contribution ID: 67

Type: **not specified**

SIMULATION OF NEUTRON PRODUCTION IN HADRON-NUCLEUS AND NUCLEUS-NUCLEUS INTERACTIONS IN GEANT4

Monday, 17 September 2018 15:00 (30 minutes)

Presenter: Dr GALOYAN, Aida (Veksler and Baldin Laboratory of High Energy Physics)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 68

Type: **not specified**

Self-similarity approach for prediction and analysis of experiments at the accelerator complex NICA

Tuesday, 18 September 2018 16:40 (20 minutes)

Presenter: BALDINA, Elina (JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 69

Type: **not specified**

EMPLOYMENT OF MICROSCOPIC MODEL OF OPTICAL POTENTIAL FOR TESTING THE $^{12,14}\text{Be} +$ p ELASTIC SCATTERING AT 700 MEV

Wednesday, 19 September 2018 15:10 (20 minutes)

Presenter: Mr LUKYANOV, Valery (JINR)

Session Classification: Parallel: Studies of exotic nuclei in relativistic beams

Contribution ID: 70

Type: **not specified**

Charmonium Radiative Transitions, Meson and Glueball Particle Properties with the Effective Strong Coupling

Wednesday, 19 September 2018 14:10 (30 minutes)

Presenter: Dr GANBOLD, Gurjav (Joint Institute for Nuclear Researches (JINR))

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 71

Type: **not specified**

COHERENT DIBARYONS

Wednesday, 19 September 2018 15:00 (30 minutes)

Presenter: Dr KOSTENKO, Boris (JINR)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 72

Type: **not specified**

Electrocouplings for low lying nucleon resonances from a light front quark model

Wednesday, 19 September 2018 16:00 (30 minutes)

Presenter: Dr OBUKHOVSKY, Igor (Institute of Nuclear Physics, Moscow State University)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 73

Type: **not specified**

Decay $B_s \rightarrow K^{*0} \mu^+ \mu^-$ in covariant quark model

Wednesday, 19 September 2018 14:40 (20 minutes)

Presenter: Dr ISSADYKOV, Aidos (Jinr)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 74

Type: **not specified**

Heavy baryon spectroscopy

Wednesday, 19 September 2018 13:30 (40 minutes)

Presenter: Prof. FAUSTOV, Rudolf (RAS)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 76

Type: **not specified**

BEAM POWER GAIN FOR MASSIVE URANIUM TARGET UNDER RELATIVISTIC PROTON, DEUTERON AND CARBON NUCLEI IRRADIATION

Monday, 17 September 2018 13:30 (20 minutes)

Presenter: Dr VORONKO, Vladimir (National Science Center Kharkov Institute of Physics and Technology, Ukraine)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 77

Type: **not specified**

Calculation of neutron leakage for a quasi-infinite uranium target by the Monte Carlo method

Monday, 17 September 2018 14:30 (30 minutes)

Presenter: Ms HUSAK, Krystsina (JINPR-Sosny)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 78

Type: **not specified**

Impact of Average Neutron Energy on the Fast Neutron Fluency Measurement by Np237 Fission to Capture Ratio and Reverse Dark Current of Planar Silicon Detector Methods

Monday, 17 September 2018 15:00 (30 minutes)

Presenter: Prof. SZUTA, Marcin (National Centre for Nuclear Research)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 79

Type: **not specified**

Comparison of the spallation neutron field on the surface of carbon and lead targets under the 660-MeV proton irradiation

Monday, 17 September 2018 14:10 (20 minutes)

Presenter: Dr ADAM, Jindrich (University of Technology, Brno, Czech Republic)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: **80**

Type: **not specified**

Study and Monte Carlo Simulations of Central Region of Uranium Target QUINTA Irradiated with High-Energy Proton and Deuteron Beams

Monday, 17 September 2018 16:00 (20 minutes)

Presenter: Mr TICHY, Pavel (JINR Dubna, NPI ASCR, CTU in Prague)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: **81**

Type: **not specified**

NP-237 TRANSMUTATION EFFECTIVENESS DEPENDENCE ON BEAM PARTICLE, ENERGY AND SAMPLE POSITION IN QUINTA SETUP

Monday, 17 September 2018 16:20 (20 minutes)

Presenter: Mr KILIM, Stanislaw (National Centre for Nuclear Research Świerk)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 83

Type: **not specified**

Investigation of the effect of coherent electromagnetic radiation by radioactive decay of ^{239}Np and ^{152}Eu

Monday, 17 September 2018 17:00 (30 minutes)

Presenter: STEGAILOV, Vladimir (Jinr)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: **84**

Type: **not specified**

Incomplete fractal showers and restoration of dimension

Tuesday, 18 September 2018 14:30 (20 minutes)

Presenter: Dr DEDOVICH, Tatiana (JINR)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 85

Type: **not specified**

ANGULAR CORRELATIONS IN GAMMA + 2 JET EVENTS AT HIGH ENERGIES IN THE PARTON REGGEIZATION APPROACH

Tuesday, 18 September 2018 16:00 (30 minutes)

Presenter: Dr SHIPILOVA, Aleksandra (Samara University)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 86

Type: **not specified**

**CLOSED SYSTEM OF EQUATIONS FOR
DESCRIPTION OF THE $e^+e^- \gamma$ PLASMA GENERATED
FROM VACUUM BY STRONG ELECTRIC FIELD**

Thursday, 20 September 2018 14:00 (30 minutes)

Presenter: Dr SMOLYANSKY, Stanislav (Saratov State University)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 87

Type: **not specified**

COMPARISON TWO DIFFERENT DESCRIPTION OF THE V-I CHARACTERISTIC OF GRAPHENE: THEORY AND EXPERIMENT

Tuesday, 18 September 2018 17:40 (20 minutes)

Presenter: Dr PANFEROV, Anatolii (Saratov State University, RU - 410026 Saratov, Russia)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 88

Type: **not specified**

E-BY-E FLUCTUATIONS OF INITIAL CONDITIONS IN INTERACTIONS OF LIGHT, INTERMEDIATE AND HEAVY NUCLEI AT ENERGIES 4 –200 GEV AT NUCLEON

Tuesday, 18 September 2018 15:10 (20 minutes)

Presenter: Prof. LOKTIONOV, Albert (Institute of Physics an Technology, Almaty)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 89

Type: **not specified**

Emission of High Energy Particles in Heavy Ion Collisions and a Non-Equilibrium Equation of State

Friday, 21 September 2018 16:20 (30 minutes)

Presenter: Prof. D'YACHENKO, Alexander (Petersburg State Transport University)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 90

Type: **not specified**

ENERGY AND SYSTEM SIZE DEPENDENCE OF MULTI-PARTICLE PRODUCTION IN ppTO, p-Pb, Xe-Xe AND Pb-Pb COLLISIONS IN ALICE

Thursday, 20 September 2018 08:40 (30 minutes)

Presenter: Dr FEOFILOV, Grigory (Saint-Petersburg State University)

Session Classification: Plenary

Contribution ID: 92

Type: **not specified**

CROSS-SECTIONS OF NUCLEAR ISOMERS IN THE INTERACTION OF PROTONS ON THIN THORIUM TARGET

Monday, 17 September 2018 17:30 (30 minutes)

Presenter: HOLOMB, Robert (Robertovich)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 93

Type: **not specified**

Features of Radiation of Relativistic Electrons in Storage Rings

Tuesday, 18 September 2018 14:50 (20 minutes)

Presenter: Prof. SHISHANIN, Oleg (Moscow State University of Food Production)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 95

Type: **not specified**

Half masses of particles produced in π^-C interaction at $40 \text{ GeV}/c$ and phase transition

Friday, 21 September 2018 16:00 (30 minutes)

Presenter: TSEPELDORJ, Baatar (Institute of Physics and Technology of MAS)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 96

Type: **not specified**

Ion acoustic cnoidal waves in electron-positron-ion plasmas with q-nonextensive electrons and positrons and high relativistic ions

Wednesday, 19 September 2018 13:30 (20 minutes)

Presenter: Prof. DORRANIAN, Davoud (Plasma Physics Research Center, Science & Research Branch, I. Azad Uni., Tehran, Iran)

Session Classification: Parallel: Studies of exotic nuclei in relativistic beams

Contribution ID: 97

Type: **not specified**

MODELING THE INFLUENCE OF HEAVY ION BEAMS ON THE NEUROGENESIS AND THE FUNCTIONING OF HIPPOCAMPAL NEURAL NETWORKS

Thursday, 20 September 2018 14:30 (20 minutes)

Presenter: KOLESNIKOVA, Elena (JINR)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 98

Type: **not specified**

Recent Progress in Computational Studies of Radiation-Induced Disorders in the Central Nervous System

Thursday, 20 September 2018 13:50 (40 minutes)

Presenter: Dr BUGAY, Aleksandr (Joint Institute for Nuclear Research)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 99

Type: **not specified**

Quark correlation in the ground and excited nucleon states via the photo-absorption sum rules

Wednesday, 19 September 2018 10:30 (30 minutes)

Presenter: Prof. GERASIMOV, Sergo (Joint Institute for Nuclear Research)

Session Classification: Plenary

Contribution ID: **100**

Type: **not specified**

ON A SEARCH FOR NEW LIGHT CHARGED PARTICLES IN PHOTOPRODUCTION

Friday, 21 September 2018 16:20 (20 minutes)

Presenter: Dr L'VOV, Anatoly (P.N. Lebedev Physical Institute)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: **101**

Type: **not specified**

REACTION OF TWO PION PRODUCTION
 $pd \rightarrow pd\pi\pi$ IN RESONANCE REGION

Friday, 21 September 2018 16:40 (20 minutes)

Presenter: Mr TURSUNBAYEV, Nurbek (ОИЯИ, ЛЯП, СФПЭ)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 102

Type: **not specified**

**RESOLVING THE SELEX–LHCb DOUBLE-CHARM
BARYON CONFLICT: THE IMPACT OF INTRINSIC
HEAVY-QUARK HADROPRODUCTION AND
SUPERSYMMETRIC LIGHT-FRONT HOLOGRAPHIC
QCD**

Friday, 21 September 2018 15:00 (30 minutes)

Presenter: Mr KOSHKAREV, Sergey (Institute of Physics, University of Tartu)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 103

Type: **not specified**

Energy dependence of the vector A_y and tensor A_{yy} and A_{xx} analyzing powers in deuteron-proton elastic scattering at large scattering angles

Friday, 21 September 2018 11:10 (40 minutes)

Presenter: Dr LADYGIN, Vladimir (VBLHEP, JINR)

Session Classification: Plenary

Contribution ID: **104**

Type: **not specified**

Dp breakup reaction investigation under specific kinematic configurations at ITS of Nuclotron

Friday, 21 September 2018 13:30 (20 minutes)

Presenter: Dr JANEK, Marian (Zilina University, Slovakia)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 105

Type: **not specified**

FEASIBILITY OF MEASURING EDM IN SPIN TRANSPARENT COLLIDERS

Friday, 21 September 2018 13:50 (30 minutes)

Presenter: Dr KONDRATENKO, Anatoliy (NTL Zaryad)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: **106**

Type: **not specified**

HADRONIC STRUCTURE OF THE PHOTON

Friday, 21 September 2018 16:30 (30 minutes)

Presenter: Dr GEVORGYAN, Sergey (JINR)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: **107**

Type: **not specified**

Polarization in HIC: comparison of methods

Tuesday, 18 September 2018 15:00 (30 minutes)

Presenter: Mr PROKHOROV, George (Dubna, BLTP)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 108

Type: **not specified**

Measurement of analyzing powers for neutrons scattering on CH₂, CH, C and Cu targets at the momenta from 3.0 to 4.2 GeV/c

Friday, 21 September 2018 14:50 (20 minutes)

Presenter: Mr PISKUNOV, Nikolay (JINR, Dubna)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: **109**

Type: **not specified**

STUDY OF THE DEUTERON ANALYZING POWERS IN DP-ELASTIC SCATTERING AT THE ENERGY OF 800 MeV

Wednesday, 19 September 2018 16:00 (20 minutes)

Presenter: Mrs MEZHENSKA, Olena (P. J. Šafárik University in Kosice)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 111

Type: **not specified**

Analysis of Experimental Data Measured by BM@N Drift Chambers

Tuesday, 18 September 2018 16:00 (20 minutes)

Presenter: Mr FEDORIŠIN, Ján (VB LHE, JINR, Dubna)

Session Classification: Parallel: NICA/MPD

Contribution ID: 113

Type: **not specified**

Hypernuclei Reconstruction at NICA/MPD

Wednesday, 19 September 2018 15:10 (20 minutes)

Presenter: ILIEVA, Mariya (JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 114

Type: **not specified**

Ternary SU(3)-group symmetry and its possible applications in hadron-quark substructure. Towards a new spinor-fermion structure

Monday, 17 September 2018 16:50 (30 minutes)

Presenter: Prof. VOLKOV, Gennadii (PNPI, B.P. Konstantinov, NRC KI)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 115

Type: **not specified**

Strongly intensive fluctuations and correlations in ultrarelativistic nuclear collisions in the model with string fusion

Monday, 17 September 2018 16:50 (20 minutes)

Presenter: KOVALENKO, Vladimir (Saint Petersburg State University)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 116

Type: **not specified**

1S-2S energy shift in muonic hydrogen

Tuesday, 18 September 2018 17:00 (20 minutes)

Presenter: Mr KRUTOV, Andrei (Samara University)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 117

Type: **not specified**

Analytical calculation of phase-space integrals in massless QCD

Tuesday, 18 September 2018 16:20 (20 minutes)

Presenter: Dr PIKELNER, Andrey (BLTP JINR)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 118

Type: **not specified**

Bound states of dtmu pdmu tpmu mesomolecules in quantum electrodynamics

Tuesday, 18 September 2018 17:20 (20 minutes)

Presenter: Mr ESKIN, Alexey (graduate student)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 119

Type: **not specified**

NLO and FSR NNLO radiative corrections for Drell-Yan processes at LHC

Tuesday, 18 September 2018 16:00 (20 minutes)

Presenter: Dr ZYKUNOV, Vladimir (JINR)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 120

Type: **not specified**

Hunting for QCD strings in e^+e^- annihilation

Monday, 17 September 2018 16:00 (20 minutes)

Presenter: KOZHEVNIKOVA, Marina (JINR)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 121

Type: **not specified**

Numerical evaluation of Mellin-Barnes integrals using efficient approximations to the contour of stationary phase

Monday, 17 September 2018 17:20 (20 minutes)

Presenter: Dr SOLOVTSOVA, Olga (JINR)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 122

Type: **not specified**

The possibility of studying polarization observables in reactions of the production of pions by polarized beams of protons and deuterons at the JINR LHEP

Tuesday, 18 September 2018 16:40 (20 minutes)

Presenter: Prof. LITVINENKO, Anatoly (Joint Institute for Nuclear Research)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 125

Type: **not specified**

Self-consistent analysis of hadron production in pp and AA collisions at mid-rapidity

Saturday, 22 September 2018 08:20 (30 minutes)

Presenter: Prof. LYKASOV, Gennady (JINR)

Session Classification: Plenary

Contribution ID: 126

Type: **not specified**

String model calculation of strongly intensive observable for multiplicities in two windows

Tuesday, 18 September 2018 14:50 (20 minutes)

Presenter: Prof. VECHERNIN, Vladimir (St. Petersburg State University)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 127

Type: **not specified**

Study of Multipion Production in np-interaction at Intermediate Energies

Tuesday, 18 September 2018 16:30 (30 minutes)

Presenter: Mr JERUSALIMOV, Alexander (JINR Dubna)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 128

Type: **not specified**

**PHASE TRANSITIONS IN THE EXTENDED
PARTICLE SYSTEMS, HAGEDORN TEMPERATURE
AND CRITICAL DENSITY AND THE FRACTAL
DIMENSION OF SPACE, AS A CONFINEMENT
PHASE TRANSITION ORDER PARAMETER**

Thursday, 20 September 2018 15:00 (30 minutes)

Presenter: Dr MAKHALDIANI, Nugzar (JINR)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 129

Type: **not specified**

On the pair correlations of neutral K,D,B and B_s mesons with close momenta produced in inclusive multiparticle processes

Tuesday, 18 September 2018 17:20 (20 minutes)

Presenter: Dr LYUBOSHITZ, Valery (Joint Institute for Nuclear Research (Dubna))

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 130

Type: **not specified**

A track finding algorithm for the Inner Tracking System of MPD/NICA

Wednesday, 19 September 2018 13:30 (20 minutes)

Presenter: Mr ZINCHENKO, Dmitry (JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 131

Type: **not specified**

Centrality and reaction plane determination at BM@N by new forward hadron calorimeter

Wednesday, 19 September 2018 13:50 (20 minutes)

Presenter: Dr GUBER, Fedor (INR RAS, Moscow)

Session Classification: Parallel: NICA/MPD

Contribution ID: 132

Type: **not specified**

Event reconstruction in the BM@N experiment

Wednesday, 19 September 2018 16:00 (20 minutes)

Presenter: Mr BATYUK, Pavel (Joint Institute for Nuclear Research)

Session Classification: Parallel: NICA/MPD

Contribution ID: 133

Type: **not specified**

GEM / CSC tracking system of the BM@N experiment at the Nuclotron

Wednesday, 19 September 2018 14:30 (20 minutes)

Presenter: KULISH, Elena (JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 134

Type: **not specified**

INVESTIGATION OF THE ELECTROMAGNETIC CALORIMETER RESPONSE FUNCTION BY COSMIC MUONS

Tuesday, 18 September 2018 17:00 (20 minutes)

Presenter: Mr SAKULIN, Dmitriy (JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 135

Type: **not specified**

Prediction of the particle production in pp collisions with the MPD detector at the NICA collider

Tuesday, 18 September 2018 17:40 (20 minutes)

Presenter: SHTEJER, Katherin (JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 136

Type: **not specified**

Monte Carlo Generator DQGSM

Tuesday, 18 September 2018 17:20 (20 minutes)

Presenters: Dr MUSULMANBEKOV, Genis (JINR, LIT); Dr BAZNAT, Mircea (BLTP JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 137

Type: **not specified**

Determination of geometry of heavy ion collisions with Forward Hadron Calorimeter (FHCa) at MPD/NICA

Tuesday, 18 September 2018 16:20 (20 minutes)

Presenter: Dr IVASHKIN, Alexander (INR RAS, Moscow)

Session Classification: Parallel: NICA/MPD

Contribution ID: 139

Type: **not specified**

Neutrino propagator in media: spin properties and spectral representation

Thursday, 20 September 2018 13:30 (30 minutes)

Presenter: Dr KALOSHIN, Alexander (Irkutsk State University)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 140

Type: **not specified**

Quantum spin dynamics in external classical fields

Thursday, 20 September 2018 15:00 (30 minutes)

Presenter: Dr OBUKHOV, Yuri (Nuclear Safety Institute (IBRAE), Russian Academy of Sciences)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 141

Type: **not specified**

OFF-SHELL INITIAL STATE EFFECTS IN DRELL-YAN PROCESS AT HADRON COLLIDERS

Thursday, 20 September 2018 14:00 (30 minutes)

Presenter: Prof. SALEEV, Vladimir (Samara National Research University)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 142

Type: **not specified**

Spin as an intrinsic form of top angular momentum

Monday, 17 September 2018 15:10 (20 minutes)

Presenter: PESTOV, Ivanhoe (JINR)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 143

Type: **not specified**

SPIN TRANSPARENCY MODE IN THE NICA COLLIDER

Friday, 21 September 2018 14:20 (30 minutes)

Presenter: Dr FILATOV, Yury (MIPT)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 144

Type: **not specified**

STUDY OF EXCLUSIVE PROCESSES WITHIN GPD APPROACH

Thursday, 20 September 2018 14:30 (30 minutes)

Presenter: Dr GOLOSKOKOV, Sergey (JINR)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 145

Type: **not specified**

SYMMETRY AND KINEMATIC HIERARCHY FOR PARTICLE REACTIONS

Thursday, 20 September 2018 17:20 (20 minutes)

Presenter: Prof. CHAVLEISHVILI, Michael (Univercity DUBNA)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 148

Type: **not specified**

Dynamics of an orbital polarization of twisted electron beams in electric and magnetic fields

Thursday, 20 September 2018 16:00 (40 minutes)

Presenter: Prof. SILENKO, Alexander (Joint Institute for Nuclear Research)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 149

Type: **not specified**

The differential cross section for dp-elastic scattering at 500-900 MeV/n and large transverse momenta

Thursday, 20 September 2018 16:40 (20 minutes)

Presenter: Mr TEREKHIN, Arkadiy (Arkadievich)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 150

Type: **not specified**

VME-BASED DAQ SYSTEM FOR THE DEUTERON SPIN STRUCTURE SETUP AT THE NUCLOTRON INTERNAL TARGET STATION

Wednesday, 19 September 2018 16:40 (20 minutes)

Presenter: Dr ISUPOV, Alexander (JINR)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 151

Type: **not specified**

Deuteron beam polarimeter at nuclotron internal target

Wednesday, 19 September 2018 16:20 (20 minutes)

Presenter: SKHOMENKO, Yaroslav (LHEP, JINR, Dubna, 141980, Russian Federation)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 152

Type: **not specified**

Prospects for the study of event-by-event fluctuations at MPD/NICA project

Thursday, 20 September 2018 16:30 (20 minutes)

Presenter: Mr MUDROKH, Alexander (JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 154

Type: **not specified**

Estimation of pion emission source in symmetric and asymmetric collisions using the UrQMD model

Friday, 21 September 2018 14:50 (20 minutes)

Presenter: Ms KHYZHNIAK, Eugenia (National Research Nuclear University MEPhI)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 155

Type: **not specified**

Fluctuating shapes of the fireballs in heavy-ion collisions

Tuesday, 18 September 2018 14:30 (20 minutes)

Presenter: TOMASIK, Boris (Univerzita Mateja Bela)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 156

Type: **not specified**

Fragmentation peak splitting of the light ions in $^{56}\text{Fe} + ^9\text{Be}$ collisions at 0.23 GeV/nucleon

Monday, 17 September 2018 17:40 (20 minutes)

Presenter: Mr MARTEMIANOV, Maxim (SRC "Kurchatov institute"- ITEP, 117218 Moscow, Russia)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 157

Type: **not specified**

Hadron modification in dense baryonic matter

Monday, 17 September 2018 17:10 (30 minutes)

Presenter: Dr MUSULMANBEKOV, Genis (JINR, LIT)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 158

Type: **not specified**

New results of the Clusters and Hypernuclei formation within PHQMD Model

Friday, 21 September 2018 15:10 (20 minutes)

Presenter: Mr KIREYEU, Viktor (JINR)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 159

Type: **not specified**

Observation of deconfinement in a cold dense quark medium

Monday, 17 September 2018 14:00 (20 minutes)

Presenter: Dr BRAGUTA, Victor (ITEP)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: **161**

Type: **not specified**

STRUCTUREOF THE MAJORANA'S EQUATION AND ITS PHISCAL INTERPRETATION

Monday, 17 September 2018 17:40 (20 minutes)

Presenter: Dr KOSMACHEV, Oleg (JINR)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 162

Type: **not specified**

Accelerating station electronic blocks of Nuclotron-NICA complex

Wednesday, 19 September 2018 16:40 (20 minutes)

Presenter: TSAKOV, Ivan (Bulgaria)

Session Classification: Parallel: NICA/MPD

Contribution ID: 163

Type: **not specified**

Calculation of Field of Spectrometric Magnet with 0.13 m Gap

Thursday, 20 September 2018 13:50 (20 minutes)

Presenter: Dr YUDIN, Ivan (JINR)

Session Classification: Parallel: Progress in experimental studies in high energy centers

Contribution ID: 164

Type: **not specified**

**MC simulation results for projective geometry
version of MPD EMC at NICA collider. Feasibility
study of fragmentation method of luminosity
measurement for NICA collider**

Thursday, 20 September 2018 16:50 (40 minutes)

Presenter: Dr KULIKOV, Viacheslav (SRC "Kurchatov institute" - ITEP)

Session Classification: Parallel: NICA/MPD

Contribution ID: 166

Type: **not specified**

Investigation of Electric field in SiPM active volume by Volt-Farad characteristics analysis

Wednesday, 19 September 2018 14:10 (20 minutes)

Primary author: Dr KUSHPIL, Vasily (NPI of ASRC, Czech republic)

Co-authors: Ms KUSHPIL, Svetlana (NPI of ASRC); Dr LADYGIN, Vladimir (VBLHEP, JINR)

Presenter: Dr KUSHPIL, Vasily (NPI of ASRC, Czech republic)

Session Classification: Parallel: NICA/MPD

Contribution ID: 167

Type: **not specified**

Medium-induced modification of kaons spectra measured in SIDIS at HERMES

Thursday, 20 September 2018 14:10 (20 minutes)

Presenter: Mr NAZARYAN, Gevorg (Yerevan Physics Institute)

Session Classification: Parallel: Progress in experimental studies in high energy centers

Contribution ID: 168

Type: **not specified**

The Fast Interaction Trigger detector for the upgrade of the ALICE experiment at CERN: design and performance

Thursday, 20 September 2018 14:30 (20 minutes)

Presenter: Mrs MAEVSKAYA, Alla (INR RAS)

Session Classification: Parallel: Progress in experimental studies in high energy centers

Contribution ID: **169**

Type: **not specified**

NEW PIXEL DETECTORS FOR ALICE AT LHC AND FOR NICA EXPERIMENTS

Thursday, 20 September 2018 16:00 (30 minutes)

Presenter: Dr ZHEREBCHEVSKY, Vladimir (Saint-Petersburg State University)

Session Classification: Parallel: NICA/MPD

Contribution ID: 170

Type: **not specified**

Determination of TMD gluon density in a proton using recent LHC data

Thursday, 20 September 2018 17:10 (20 minutes)

Presenter: ABDULOV, Nizami (Lomonosov Moscow State University, Faculty of Physics)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 171

Type: **not specified**

EMC effect at small Bjorken x values

Tuesday, 18 September 2018 14:30 (30 minutes)

Presenter: KOTIKOV, Anatoly (JINR)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 172

Type: **not specified**

Energy spectra of muonic atoms in quantum electrodynamics

Thursday, 20 September 2018 16:00 (20 minutes)

Presenter: Prof. MARTYNENKO, Alexei (Samara University)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 173

Type: **not specified**

Hadronic contribution of light by light scattering in the energy spectrum of muonic hydrogen

Thursday, 20 September 2018 16:20 (20 minutes)

Presenter: MARTYNENKO, Fedor (Samara University)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 175

Type: **not specified**

Poincare-invariant quark model of light mesons

Friday, 21 September 2018 14:30 (30 minutes)

Presenter: Mr HAURYSH, Vadzim (Sukhoi State Technical University of Gomel)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 176

Type: **not specified**

Relativistic investigation of the triton in the Bethe-Salpeter-Faddeev approach

Thursday, 20 September 2018 16:40 (30 minutes)

Presenter: Mr YUREV, Sergey (JOINT INSTITUTE FOR NUCLEAR RESEARCH)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: 178

Type: **not specified**

A look at hadronisation via high multiplicity

Thursday, 20 September 2018 13:30 (30 minutes)

Presenter: Dr KOKOULINA, Elena (JINR)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: **180**

Type: **not specified**

Relativistic density functional for nuclear matter

Tuesday, 18 September 2018 13:30 (30 minutes)

Presenter: Dr GMUCA, Stefan (Institute of Physics, Slovak Academy of Sciences, Slovakia)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: **182**

Type: **not specified**

ON THE ρ^0 -MESON PRODUCTION IN THE INCLUSIVE PROTON-PROTON COLLISION

Thursday, 20 September 2018 17:30 (30 minutes)

Presenter: Dr MACHAVARIANI, Alexander (LHEP JINR)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: **183**

Type: **not specified**

**MONTE CARLO TRACK STRUCTURE SIMULATION
IN STUDIES OF BIOLOGICAL EFFECTS INDUCED
BY ACCELERATED CHARGED PARTICLES IN THE
CENTRAL NERVOUS SYSTEM**

Thursday, 20 September 2018 14:50 (20 minutes)

Presenter: Mr MUNKHBAATAR, Batmunkh (LRB, JINR)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: **184**

Type: **not specified**

The symmetry energy in neutron stars: constraints from GW170817 and Direct Urca Cooling

Friday, 21 September 2018 16:00 (20 minutes)

Presenter: Dr ALVAREZ CASTILLO, David Edwin (Joint Institute for Nuclear Research)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 185

Type: **not specified**

Analysis of the $pp \rightarrow \{pp\}_s \pi^0$ reaction at the energy range 0.8-2.8 GeV

Friday, 21 September 2018 16:00 (20 minutes)

Presenter: Mr KURBATOV, Vladimir (JINR)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 186

Type: **not specified**

Performance of Anisotropic Flow Studies at MPD (NICA)

Wednesday, 19 September 2018 14:50 (20 minutes)

Presenter: Mr PARFENOV, Peter (MEPhI, Moscow)

Session Classification: Parallel: NICA/MPD

Contribution ID: **187**

Type: **not specified**

241Am INCINERATION MEASUREMENTS WITH ACTIVATION METHOD IN THE «QUINTA» NEUTRON FIELD

Monday, 17 September 2018 16:40 (20 minutes)

Presenters: IGOR, Kryachko (LHEP JINR); Mr KILIM, Stanislaw (National Centre for Nuclear Research Świerk)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: **188**

Type: **not specified**

Sigma-hyperons in nuclear collisions at energy of few GeV/c

Friday, 21 September 2018 14:30 (20 minutes)

Presenter: Ms ZHIGAREVA, Natalia (ITEP, Moscow, Russia)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: **190**

Type: **not specified**

The very forward hadron calorimeter PSD for the future CBM FAIR experiment

Thursday, 20 September 2018 14:50 (20 minutes)

Presenter: Mr MIKHAYLOV, Vasily (Nuclear Physics Institute CAS, Rez, Czech Republic)

Session Classification: Parallel: Progress in experimental studies in high energy centers

Contribution ID: 194

Type: **not specified**

FRACTALITY IN HADRON INTERACTIONS: A CONSERVATION LAW AND QUANTIZATION OF FRACTAL DIMENSIONS

Tuesday, 18 September 2018 14:00 (30 minutes)

Primary author: Dr ZBOROVSKÝ, Imrich (Nuclear Physics Institute of the CAS)

Presenter: Dr ZBOROVSKÝ, Imrich (Nuclear Physics Institute of the CAS)

Session Classification: Parallel: Dynamics of multiparticle production

Contribution ID: 196

Type: **not specified**

The nuclear EMC effect in the resonance and DIS transition region

Tuesday, 18 September 2018 14:00 (30 minutes)

Presenter: KULAGIN, Sergey (INR, Moscow)

Session Classification: Parallel: Structure functions of hadrons and nuclei

Contribution ID: **198**

Type: **not specified**

DEUTERON BREAKUP AT ZERO ANGLE IN THE COULOMB NUCLEAR FIELD

Thursday, 20 September 2018 17:00 (20 minutes)

Presenter: Prof. SITNIK, Igor (JINR)

Session Classification: Parallel: Polarization phenomena, spin physics

Contribution ID: 199

Type: **not specified**

STUDY OF LIGHT NUCLEI FRAGMENTATION IN NUCLEAR TRACK EMULSION AND SIMULATION IN THE BECQUEREL EXPERIMENT

Thursday, 20 September 2018 15:10 (20 minutes)

Presenter: Dr ARTEMENKOV, Denis (JINR)

Session Classification: Parallel: Progress in experimental studies in high energy centers

Contribution ID: 200

Type: **not specified**

RECENT RESULTS OF THE HADRONIC CROSS SECTION MEASUREMENTS WITH THE CMD-3 DETECTOR

Saturday, 22 September 2018 09:20 (20 minutes)

Presenter: Dr LUKIN, Peter (Budker Insitute of Nuclear Physics and Novosibirsk State University)

Session Classification: Plenary

Contribution ID: **201**

Type: **not specified**

NICA project: status

Monday, 17 September 2018 11:20 (40 minutes)

Presenter: Dr ROGACHEVSKIY, Oleg (JINR)

Session Classification: Plenary

Contribution ID: 224

Type: **not specified**

Closing

Saturday, 22 September 2018 12:50 (10 minutes)

Presenters: Prof. MALAKHOV, Aleksandr (JINR); Dr BONDARENKO, Serge (JINR); BUROV, Valery (JINR)

Session Classification: Plenary

Contribution ID: 228

Type: **not specified**

Quantum Dots: from theory to applications

Saturday, 22 September 2018 11:30 (40 minutes)

Presenter: NAZMITDINOV, Rashid

Session Classification: Plenary

Contribution ID: 229

Type: **not specified**

Superheavy elements research at Dubna: achievements and perspectives

Saturday, 22 September 2018 12:10 (40 minutes)

Presenter: Dr KARPOV, Alexander (JINR)

Session Classification: Plenary

Contribution ID: 233

Type: **not specified**

Beam and target optimization for energy production in accelerator driven systems

Monday, 17 September 2018 13:50 (20 minutes)

Presenter: Dr PARAIPAN, Mihaela (Institute of Space Science Bucharest-Magurele Romania, Joint Institute for Nuclear Research Dubna Russia)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 234

Type: **not specified**

Tensor polarizability of rho meson from lattice QCD

Monday, 17 September 2018 13:50 (30 minutes)

Presenter: Dr LUSCHEVSKAYA, Elena (ITEP)

Session Classification: Parallel: Quantum chromodynamics at large distances

Contribution ID: 235

Type: **not specified**

Coherence control of triple electromagnetically induced transparency and Autler-Townes effect using an atomic medium

Tuesday, 18 September 2018 15:10 (20 minutes)

Presenter: Dr SHAHALIYEV, Ehtiram (VBLHEP, Senior Researcher)

Session Classification: Parallel: Relativistic heavy ion collisions

Contribution ID: 236

Type: **not specified**

MAGIC - how Matter's extreme phases can be revealed in gravitational wave observations and in relativistic heavy ion collision experiments

Wednesday, 19 September 2018 12:00 (30 minutes)

Presenter: Prof. STOECKER, Horst (FiAS)

Session Classification: Plenary

Contribution ID: 237

Type: **not specified**

Pseudorapidity dependence of multiplicity and transverse momentum fluctuations at the SPS energies

Wednesday, 19 September 2018 16:20 (20 minutes)

Presenter: PROKHOROVA, Daria (St Petersburg State University)

Session Classification: Parallel: NICA/MPD

Contribution ID: 238

Type: **not specified**

First experiments for deep ionisation of Ir, Ce and Xe atoms in a local ion trap in JINR

Thursday, 20 September 2018 13:30 (20 minutes)

Presenter: OVSYANNIKOV, Vladimir (JINR)

Session Classification: Parallel: Applied use of relativistic beams

Contribution ID: 239

Type: **not specified**

Fully solvable mathematical scheme for finding out the right mass and width values of $f_0(500)$ and $\rho^0(770)$ mesons

Friday, 21 September 2018 11:50 (30 minutes)

Presenter: Prof. DUBNICHKA, Stanislav

Session Classification: Plenary

Contribution ID: 240

Type: **not specified**

Check of the structure in photon pairs spectra at an invariant mass of about 38 MeV/c²

Wednesday, 19 September 2018 16:30 (30 minutes)

Presenter: Dr ABRAAMYAN, Khachik (JINR, Dubna)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 241

Type: **not specified**

Solving Dyson-Schwinger and Bethe-Salpeter equations at zero and finite temperatures

Friday, 21 September 2018 14:00 (30 minutes)

Presenter: Mr DORKIN, Sergey (BLTPH)

Session Classification: Parallel: Hadron spectroscopy, multiquarks

Contribution ID: 242

Type: **not specified**

**1.MCORD - MPD COsmic Ray Detector for NICA.
2.Fast neutron flux measurement in the energies
range from 10 to 100 MeV in the "Quinta" assembly
after short proton irradiation**

Thursday, 20 September 2018 17:30 (30 minutes)

Presenter: Dr BIELEWICZ, Marcin (NCBJ / JINR)

Session Classification: Parallel: NICA/MPD

Contribution ID: 243

Type: **not specified**

Spin Dynamics for EDM at Storage Rings

Saturday, 22 September 2018 11:00 (30 minutes)

Presenter: Prof. NIKOLAEV, Nikolai (Landau Institute for Theoretical Physics)

Session Classification: Plenary

Contribution ID: 244

Type: **not specified**

Book "The discovery of the Higgs Boson at the LHC" (in Russian)

Wednesday, 19 September 2018 12:30 (5 minutes)

Presenter: Dr ZARUBIN, Anatoly (JINR)

Session Classification: Plenary

Contribution ID: 246

Type: **not specified**

Measurements of the invarinat cross sections for forward production of secondary light nuclei in CC-collisions at beam energy 20.5 GeV/n on the accelerator U-70 IHEP

Thursday, 20 September 2018 13:30 (20 minutes)

Presenter: Dr BOGOLYUBSKY, Mikhail (National Research Center Kurchatov Institute - Institute for High Energy Physics, Protvino (IHEP, Protvino))

Session Classification: Parallel: Progress in experimental studies in high energy centers

Contribution ID: 247

Type: **not specified**

Future ee Colliders and Study of Colour Reconnections effects for WW, ttbar and Higgs

Tuesday, 18 September 2018 17:40 (20 minutes)

Presenter: Dr PUKHAEVA, Nelli (JINR)

Session Classification: Parallel: Structure functions of hadrons and nuclei