

**September 17, Monday  
Plenary Session  
Conference Hall of VBLHEP**

10.00 **Victor Matveev (JINR)**

Opening

Chairman V. Matveev

10.10 **Vladimir Kekelidze (JINR)**

Welcome from VBLHEP Directorate

10.20 **Maxim Danilov (Dubna, Russia)**

Welcome from Dubna City administration

**Group photo, coffee break 10.30-11.10**

Chairman L. Pondrom

11.10 **Anton Baldin (JINR)**

The ideas of A.M.Baldin on overcoming the reductionism principle in Relativistic Physics

11.50 **Viacheslav Kuvshinov (Minsk, Belarus)**

Interaction of quantum systems with environment in QCD

12.20 **Oleg Rogachevskiy (JINR)**

NICA project: status

13.00 **Alexander Kovalenko (JINR)**

Status of NICA-SPIN Program

**Break 13.30-14.30**

September 17, Monday  
 Parallel Session I  
 Conference Hall of VBLHEP

## Quantum chromodynamics at large distances

Chairman G. Volkov

14.30 *Alexey Zhevlakov (Tomsk, Russia)*

Transition form-factor of  $\pi \gamma \rightarrow \pi \pi$  in nonlocal quark model

14.50 *Elena Lushevskaya (Moscow, Russia)*

Tensor polarizability of rho meson from lattice QCD

15.20 *Nelly Konopleva (Moscow, Russia)*

Physics architecture. Part two

15.40 *Vyacheslav Yukalov (JINR)*

Describing phase transitions in field theory by self-similar approximants

16:10 *Ivanhoe Pestov (JINR)*

Spin as an intrinsic form of top angular momentum

## Coffee break 16.30-17.00

Chairman V. Yukalov

17.00 *Marina Kozhevnikova (JINR)*

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

17.20 *Nikolay Ivanov (JINR)*

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

17.50 *Gennadii Volkov (Gatchina, Russia)*

Ternary  $S\tilde{U}(3)$  group symmetry and its possible applications in hadron-quark substructure. Towards a new spinor-fermion structure

18:20 *Olga Solovtsova (JINR)*

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

18:40 *Oleg Kosmachev (JINR)*

Structure of the Majorana's equation and its physical interpretation

19.00

**19:20 Welcome party**

September 17, Monday  
Parallel Session II  
Auditorium 347

### Relativistic heavy ion collisions

Chairman A. Parvan

14.30 *Kyrill Bugaev (Kiev, Ukraine)*

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

15.00 *Victor Braguta (Moscow, Russia)*

Observation of deconfinement in a cold dense quark medium

15.20 *Nataliya Topilskaya (Moscow, Russia)*

Proposed fixed target experiment at the LHC beams

15.40 *Igor Altsybeev (Saint Petersburg, Russia)*

Recent developments in particle yield fluctuation measurements

16:00 *Aida Galoyan (JINR)*

Simulation of neutron production in hadron-nucleus and nucleus-nucleus interactions in GEANT4

### Coffee break 16.30-17.00

### Relativistic heavy ion collisions

Chairman K. Bugaev

17.00 *Alexandru Parvan (JINR)*

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

17.30 *Trambak Bhattacharyya (JINR)*

Tsallis statistics and heavy quark transport in quark gluon plasma

17.50 *Vladimir Kovalenko (Saint Petersburg, Russia)*

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

18.10 *Genis Musulmanbekov (JINR)*

Hadron modification in dense baryonic matter

18:40 *Maxim Martemianov (Moscow, Russia)*

Fragmentation peak splitting of the light ions in 56Fe + 9Be collisions at 0.23 GeV/nucleon

19.00

### 19:20 Welcome party

September 17, Monday  
 Parallel Session III  
 NICA Hall

### Applied use of relativistic beams

Chairman A. Baldin

14:30 **Vladimir Voronko (Kharkov, Ukraine)**

Beam power gain for massive uranium target under relativistic proton, deuteron and carbon nuclei irradiation

14:50 **Mihaela Paraipan (JINR)**

Beam and target optimization for energy production in accelerator driven systems

15:10 **Jindrich Adam (Brno, Czech Republic)**

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

15:30 **Krystsina Husak (Minsk, Belarus)**

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

16:00 **Marcin Szuta (Otwock-Świerk, Poland)**

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

### Coffee break 16.30-17.00

Chairman M. Paraipan

17:00 **Pavel Tichy (JINR)**

Study and Monte Carlo simulations of central region of uranium target QUINTA irradiated with high-energy proton and deuteron beams

17:20 **Stanislaw Kilim (Otwock-Świerk, Poland)**

NP-237 transmutation effectiveness dependence on beam particle, energy and sample position in QUINTA setup

17:40 **Stanislaw Kilim et al. (Otwock-Świerk, Poland)**

<sup>241</sup>Am incineration measurements with activation method in the «QUINTA» neutron field

18:00 **Vladimir Stegailov (JINR)**

Investigation of the effect of coherent electromagnetic radiation by radioactive decay of <sup>239</sup>Np and <sup>152</sup>Eu

18:30 **Robert Holomb (Brno, Czech Republic)**

Cross-sections of nuclear isomers in the interaction of protons on thin thorium target

19.00

19:20 **Welcome party**

September 18, Tuesday  
Plenary Session  
Conference Hall of VBLHEP

Chairman M. Barabanov

09:00 *Elena Santopinto (Genoa, Italy)*

Pentaquark and hybrid states

09:40 *Tomasz Skwarnicki (Syracuse, USA)*

Exotic hadrons with heavy quarks: experimental perspective

10:20 *Galina Pakhlova (Moscow, Russia)*

Exotic quarkonium at e<sup>+</sup>e<sup>-</sup> colliders

**11:00 - 11:30 Coffee break**

Chairman E. Santopino

11:30 *Alaa Dbeyssi (Mainz, Germany)*

Nucleon structure studies with the PANDA experiment at FAIR

12:00 *Igor Boyko (JINR)*

Recent results from the BESIII experiment

12:40 *Vladimir Nedorezov (Moscow, Russia)*

Progress in experimental studies of the BGO-OD collaboration at BONN

13:10 *Grazia Cabras (Bologna, Italy)*

Probing QCD with the ATLAS detector

**13:30 - 14:30 Lunch**

September 18, Tuesday  
Parallel Session I  
Conference Hall of VBLHEP

## Structure functions of hadrons and nuclei

Chairman A. Litvinenko

- 14:30 **Stefan Gmuca (Bratislava, Slovakia)**  
Relativistic density functional for nuclear matter
- 15:00 **Sergey Kulagin (Moscow, Russia)**  
The nuclear EMC effect in the resonance and DIS transition region
- 15:30 **Anatoly Kotikov (JINR)**  
EMC effect at small Bjorken  $x$  values
- 16:00 **George Prokhorov (JINR)**  
Polarization in HIC: comparison of methods

## 16:30 - 17:00 Coffee break

Chairman S. Kulagin

- 17:00 **Vladimir Zykunov (JINR)**  
NLO and FSR NNLO radiative corrections for Drell-Yan processes at LHC
- 17:30 **Andrey Pikelner (JINR)**  
Analytical calculation of phase-space integrals in massless QCD
- 17:50 **Anatoly Litvinenko (JINR)**  
The possibility of studying polarization observables in reactions of the production of pions by polarized beams of protons and deuterons at the JINR LHEP
- 18:20 **Andrei Krutov (Samara, Russia)**  
1S-2S energy shift in muonic hydrogen
- 18:40 **Alexey Eskin (Samara, Russia)**  
Bound states of dtmu pdmu tpmu mesomolecules in quantum electrodynamics
- 19:00

September 18, Tuesday  
 Parallel Session II  
 Auditorium 347

### Dynamics of multiparticle production

Chairman E. Kokoulina

14:30 **Mikhail Tokarev (JINR)**

Spectra of negative particles in Au+Au collisions from BES-I at RHIC and z-scaling

15:00 **Imrich Zborovský (Řež, Czech republic)**

Fractality in hadron interactions: a conservation law and quantization of fractal dimensions

15:30 **Tatiana Dedovich (JINR)**

Incomplete fractal showers and restoration of dimension

15:50 **Vladimir Vechernin (Saint Petersburg, Russia)**

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

16:10 **Albert Loktionov (Almaty, Kazakhstan)**

E-by-E fluctuations of initial conditions in interactions of light, intermediate and heavy nuclei at energies 4 – 200 GeV at nucleon

### 16:30 - 17:00 Coffee break

Chairman V. Vechernin

17:00 **Aleksandra Shipilova (Samara, Russia)**

Angular correlations in gamma + 2 jet events at high energies in the parton Reggeization approach

17:30 **Alexander Jerusalemov (JINR)**

Study of multipion production in np-interaction at intermediate energies

18:00 **Valery Lyuboshitz (JINR)**

On the pair correlations of neutral K,D,B and B<sub>s</sub> mesons with close momenta produced in inclusive multiparticle processes

18:20 **Anatolii Panferov (Saratov, Russia)**

Comparison two different description of the V-I characteristic of graphene: theory and experiment

18:40

September 18, Tuesday  
 Parallel Session III  
 NICA Hall

### Relativistic heavy ion collisions

Chairman G. Feofilov

- 14:30 **Arkadiy Taranenko (Moscow, Russia)**  
 Anisotropic Flow Measurements from LHC to SIS
- 15:10 **Grigory Nigmatkulov (Moscow, Russia)**  
 Recent flow and femtoscopy results from STAR
- 15:30 **Boris Tomasik (Banska Bystrica, Slovakia)**  
 Fluctuating shapes of the fireballs in heavy-ion collisions
- 15:50 **Oleg Shishanin (Moscow, Russia)**  
 Features of radiation of relativistic electrons in storage rings
- 16:10 **Ehtiram Shahaliev (JINR)**  
 Coherence control of triple electromagnetically induced transparency and Autler-Townes effect using an atomic medium

**16:30 - 17:00 Coffee break**

### NICA/MPD

Chairman G. Nigmatkulov

- 17:00 **Ján Fedorišín (JINR)**  
 Analysis of experimental data measured by BM@N drift chambers
- 17:20 **Alexander Ivashkin (Moscow, Russia)**  
 Determination of geometry of heavy ion collisions with Forward Hadron Calorimeter (FHCAL) at MPD/NICA
- 17:40 **Elina Baldina (JINR)**  
 Self-similarity approach for prediction and analysis of experiments at the accelerator complex NICA
- 18:00 **Dmitriy Sakulin (JINR)**  
 Investigation of the electromagnetic calorimeter response function by cosmic muons
- 18:20 **Mircea Baznat, Genis Musulmanbekov (JINR)**  
 Monte Carlo Generator DQGSM
- 18:40 **Katherin Shtejer (JINR)**  
 Prediction of the particle production in pp collisions with the MPD detector at the NICA collider
- 19:00



September 19, Wednesday  
Plenary Session  
Conference Hall of VBLHEP

Chairman H. Stoecker

09:00 **Yury Kudenko (Moscow, Russia)**

Status of neutrino oscillations

09:40 **Gleb Pokatashkin (JINR)**

Hyperons at BM@N experiment: first results

10:00 **Yasuhiro Yamaguchi (Wako, Japan)**

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

10:20 **Tobias Frederico (Sao Jose dos Campos, Brazil)**

Exploring the relativistic bound state structure in Minkowski space: applications to hadrons

**11:00 - 11:30 Coffee break**

Chairman T. Frederico

11:30 **Sergo Gerasimov (JINR)**

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

12:00 **Alexander Dorokhov (JINR)**

Proton radius puzzle: experiment vs theory

12:30 **Egle Tomasi-Gustafsson (Saclay, France)**

Update on the search of two photon exchange in electron proton elastic scattering

13:00 **Horst Stoecker (Frankfurt, Germany)**

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

13:30 **Anatoly Zarubin (JINR)**

Presentation of the book "The discovery of the Higgs Boson at the LHC"

**13:35 - 14:30 Lunch**

September 19, Wednesday  
Parallel Session I  
Conference Hall of VBLHEP

### Hadron spectroscopy, multiquarks

Chairman I. Obukhovsky

14:30 **Rudolf Faustov (Moscow, Russia)**

Heavy baryon spectroscopy

15:10 **Gurjav Ganbold (JINR)**

Charmonium radiative transitions, meson and glueball particle properties with the effective strong coupling

15:40 **Aidos Issadykov (JINR)**

Decays of Bc meson

16:00 **Boris Kostenko (JINR)**

Coherent dibaryons

**16:30 – 17:00 Coffee break**

Chairman R. Faustov

17:00 **Igor Obukhovsky (Moscow, Russia)**

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

17:30 **Khachik Abraamyan (JINR)**

Check of the structure in photon pairs spectra at an invariant mass of about 38 MeV/c<sup>2</sup>

18:00

**19:00 Concert**

September 19, Wednesday  
Parallel Session II  
Auditorium 347

### Studies of exotic nuclei in relativistic beams

Chairman A. Stavinskiy

14:30 ***Davoud Dorrnian (Tehran, Iran)***

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

14:50 ***Sergei Afanasiev (JINR)***

The influence of collective effects on the eta-mesic nucleus formation

15:10 ***Katarina Michalickova (Kosice, Slovakia)***

Eta-nuclei in the SCAN experiment

15:30 ***Dmitry Dryablov (JINR)***

Search for eta-mesic nuclei in the SRC/BM@N experiment at the NUCLOTRON

16:00 ***Andrei Zaitcev (JINR)***

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

**16:30 - 17:00 Coffee break**

### Polarization phenomena, spin physics

Chairman S. Afanasiev

17:00 ***Olena Mezhenka (Kosice, Slovakia)***

Study of the deuteron analyzing powers in dp-elastic scattering at the energy of 800 MeV

17:20 ***Yaroslav Skhomenko (JINR)***

Deuteron beam polarimeter at nuclotron internal target

17:40 ***Alexander Isupov (JINR)***

VME-based DAQ system for the deuteron spin structure setup at the NUCLOTRON internal target station

18:00

**19:00 Concert**

September 19, Wednesday  
Parallel Session III  
NICA Hall

**NICA/MPD**

Chairman O. Rogachevsky

- 14:30 **Dmitry Zinchenko (JINR)**  
A track finding algorithm for the Inner Tracking System of MPD/NICA
- 15:50 **Fedor Guber (Moscow, Russia)**  
Centrality and reaction plane determination at BM@N by new forward hadron calorimeter
- 15:10 **Vasily Kushpil (Rez, Czech Republic)**  
Investigation of Electric field in SiPM active volume by Volt-Farad characteristics analysis
- 15:30 **Elena Kulish (JINR)**  
GEM/CSC tracking system of the BM@N experiment at the Nuclotron
- 15:50 **Peter Parfenov (Moscow, Russia)**  
Performance of Anisotropic Flow Studies at MPD (NICA)
- 16:10 **Mariya Ilieva (JINR)**  
Hypernuclei Reconstruction at NICA/MPD

**16:30 - 17:00 Coffee break**

**NICA/MPD**

Chairman V. Kushpil

- 17:00 **Pavel Batyuk (JINR)**  
Event reconstruction in the BM@N experiment
- 17:20 **Daria Prokhorova (Saint Petersburg, Russia)**  
Pseudorapidity dependence of multiplicity and transverse momentum fluctuations at the SPS energies
- 17:40 **Ivan Tsakov (Sofia, Bulgaria)**  
Accelerating station electronic blocks of Nuclotron-NICA complex
- 18:00

**19:00 Concert**

September 20, Thursday  
Plenary Session  
Conference Hall of VBLHEP

Chairman V. Alexakhin

09:00 **Georgy Melkumov (JINR)**

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

09:40 **Grigory Feofilov (Saint Petersburg, Russia)**

Energy and system size dependence of multi-particle production in pp, p-Pb, Xe-Xe and Pb-Pb collisions in ALICE

10:10 **Evgeny Kryshen (Gatchina, Russia)**

Overview of ALICE results on ultra-peripheral collisions

10:40 **Phillip Lakaschus (Frankfurt, Germany)**

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

**11:00 - 11:30 Coffee break**

Chairman M. Tokarev

11:30 **Vadim Alexakhin (JINR)**

CMS: Physics Overview

12:10 **Anatoly Efremov (JINR)**

Semi-inclusive deep inelastic scattering in Wandzura-Wilczek-type approximation

12:50 **Vladimir Karmanov (Moscow, Russia)**

Bound states of purely relativistic nature

13:20 **Yury Uzikov (JINR)**

Delta-isobar contribution to the pion production in the reaction  $pp \rightarrow \{pp\}_s \pi^0$

**13:40 - 14:30 Lunch**

September 20, Thursday  
Parallel Session I  
Conference Hall of VBLHEP

### Dynamics of multiparticle production

Chairman I. Zborovský

14:30 *Elena Kokoulina (JINR)*

A look at hadronisation via high multiplicity

15:00 *Stanislav Smolyansky (Saratov, Russia)*

Closed system of equations for description of the  $e^+e^- \gamma$  plasma generated from vacuum by strong electric field

15:30 *Oleg Golosov (Moscow, Russia)*

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

16:00 *Nugzar Makhaldiani (JINR)*

Phase transitions in the extended particle systems, hadron temperature and critical density and the fractal dimension of space, as a confinement phase transition order parameter

16:30 - 17:00 Coffee break

### Structure functions of hadrons and nuclei

Chairman S. Smolyansky

17:00 *Alexei Martynenko (Samara, Russia)*

Energy spectra of muonic atoms in quantum electrodynamics

17:20 *Fedor Martynenko (Samara, Russia)*

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

17:40 *Sergey Yurev (JINR)*

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

18:10 *Nizami Abdulov (Moscow, Russia)*

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

18:30 *Alexander Machavariani (JINR)*

On the  $\rho^0$ -meson production in the inclusive proton-proton collision

19:00

September 20, Thursday  
Parallel Session II  
Auditorium 347

### Polarization phenomena, spin physics

Chairman N. Piskunov

14:30 **Alexander Kaloshin (Irkutsk, Russia)**

Neutrino propagator in media: spin properties and spectral representation

15:00 **Vladimir Saleev (Samara, Russia)**

Off-shell initial state effects in Drell-Yan process at hadron colliders

15:30 **Sergey Goloskokov (JINR)**

Study of exclusive processes within GPD approach

16:00 **Yuri Obukhov (Moscow, Russian)**

Quantum spin dynamics in external classical fields

### 16:30 - 17:00 Coffee break

Chairman Yu. Obukhov

17:00 **Alexander Silenko (JINR)**

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

17:40 **Arkadiy Terekhin (JINR)**

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

18:00 **Igor Sitnik (JINR)**

Deuteron breakup at zero angle in the Coulomb nuclear field

18:20 **Michael Chavleishvili (Dubna, Russia)**

Symmetry and kinematic hierarchy for particle reactions

18:40 **Roman Shindin (JINR)**

Right sign of spin rotation operator

19:00

September 20, Thursday  
 Parallel Session III  
 NICA Hall

### Progress in experimental studies in high energy centers

Chairman M. Bielewicz

14:30 **Mikhail Bogolyubsky (Protvino, Russia)**

Measurements of the invariant 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

14:50 **Ivan Yudin (JINR)**

Calculation of Field of Spectrometric Magnet with 0.13 m Gap

15:10 **Gevorg Nazaryan (Yerevan, Armenia)**

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

15:30 **Alla Maevskaya (Moscow, Russia)**

The fast interaction trigger detector for the upgrade of the ALICE experiment at CERN: design and performance

15:50 **Vasily Mikhaylov (Rez, Czech Republic)**

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

16:10 **Denis Artemenkov (JINR)**

Study of light nuclei fragmentation in nuclear track emulsion and simulation in the BECQUEREL experiment

### 16:30 - 17:00 Coffee break

### NICA/MPD

Chairman D. Artemenkov

17:00 **Vladimir Zhrebchevsky (Saint Petersburg, Russia)**

New pixel detectors for ALICE at LHC and for NICA experiments

17:30 **Alexander Mudrokh (JINR)**

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

17:50 **Viacheslav Kulikov (Moscow, Russia)**

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

18:30 **Marcin Bielewicz (Warsaw, Poland)**

MCORD - MPD COsmic Ray Detector for NICA.

Fast neutron flux measurement in the energies range from 10 to 100 MeV in the "Quinta" assembly after short proton irradiation

19:00



September 20, Thursday  
Parallel Session IV  
Building 3 Auditorium

### Applied use of relativistic beams

Chairman P. Zarubin

14:30 *Vladimir Ovsyannikov (JINR)*

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

14:50 *Aleksandr Bugay (JINR)*

Recent progress in computational studies of radiation-induced disorders in the Central Nervous System

15:30 *Elena Kolesnikova (JINR)*

Modeling the influence of heavy ion beams on the neurogenesis and the functioning of hippocampal neural networks

15:50 *Batmunkh Munkhbaatar (JINR)*

Monte Carlo track structure simulation in studies of biological effects induced by accelerated charged particles in the central nervous system

**16:10 - 17:00 Coffee break**



September 21, Friday  
Plenary Session  
Conference Hall of VBLHEP

Chairman V. Ladygin

09:00 **Maria Patsyuk (Cambridge, USA)**

Exclusive studies of short-range correlations in nuclei

09:40 **Andrej Kugler (Rez, Czech Republic)**

The compressed baryonic matter experiment at FAIR

10:20 **Viktor Riabov (Gatchina, Russia)**

Recent results from PHENIX at RHIC

**11:00 - 11:30 Coffee break**

Chairman A. Kugler

11:30 **Alexey Aparin (JINR)**

Highlights from the STAR experiment

12:10 **Vladimir Ladygin (JINR)**

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

12:50 **Stanislav Dubnichka (Bratislava, Slovakia)**

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

**13:20 - 14:30 Lunch**

September 21, Friday  
Parallel Session I  
Conference Hall of VBLHEP

## Hadron spectroscopy, multiquarks

Chairman A. L'vov

14:30 **Yury Surovtsev (JINR)**

The effect of final state interactions in two-pion and  $K\bar{K}$  transitions of charmonia and bottomonia

15:00 **Sergey Dorkin (JINR)**

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

15:30 **Vadzim Haurysh (Gomel, Belarus)**

Poincare-invariant quark model of light mesons

16:00 **Sergey Koshkarev (Tartu, Estonia)**

Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD

## 16:30 - 17:00 Coffee break

Chairman Yu. Surovtsev

17:00 **Vladimir Kurbatov (JINR)**

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

17:20 **Anatoly L'vov (Moscow, Russia)**

On a search for new light charged particles in photoproduction

17:40 **Nurbek Tursunbayev (JINR)**

Reaction of two pion production  $pd \rightarrow pd \pi \pi$  in resonance region

18:00

## 18:20 Banquet

September 21, Friday  
Parallel Session II  
Auditorium 347

## Relativistic heavy ion collisions

Chairman A. D'yachenko

14:30 *Alexey Kurepin (Moscow)*

Determination of centrality in nucleus – nucleus collisions on the MPD/NICA installation

15:00 *Sergey Kiselev (Moscow, Russia)*

Hadronic resonance production with ALICE at the LHC

15:30 *Natalia Zhigareva (Moscow, Russia)*

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

15:50 *Eugenia Khyzhniak (Moscow, Russia)*

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

16:10 *Viktar Kireyeu (JINR)*

New results of the clusters and hypernuclei formation within PHQMD model

**16:30 - 17:00 Coffee break**

Chairman A. Kurepin

17:00 *David Edwin Alvarez Castillo (JINR)*

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

17:20 *Alexander D'yachenko (Saint Petersburg, Russia)*

Emission of high energy particles in heavy ion collisions and a non-equilibrium equation of state

17:50

**18:20 Banquet**

September 21, Friday  
Parallel Session III  
NICA Hall

### Polarization phenomena, spin physics

Chairman B. Tseepeldorj

14:30 **Marian Janek (Zilina, Slovakia)**

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

15:00 **Anatoliy Kondratenko (Novosibirsk, Russia)**

Feasibility of measuring EDM in spin transparent colliders

15:30 **Yury Filatov (Moscow, Russia)**

Spin transparency mode in the NICA collider

16:00 **Nikolay Piskunov (JINR)**

Measurement of analyzing powers for neutrons scattering on CH<sub>2</sub>, CH, C and Cu targets at the momenta from 3.0 to 4.2 GeV/c

**16:30 - 17:00 Coffee break**

### Structure functions

Chairman M. Janek

17:00 **Baatar Tseepeldorj (Ulaanbaatar, Mongolia)**

Half masses of particles produced in pi-C interaction at 40 GeV/c and phase transition

17:30 **Sergey Gevorgyan (JINR)**

Hadronic structure of the photon

18:00

**18:20 Banquet**

September 22, Saturday  
Plenary Session  
Conference Hall of VBLHEP

Chairman S. Shimanskiy

09:00 **Aleksandr Malakhov (JINR)**

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

09:20 **Gennady Lykasov (JINR)**

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

09:50 **Pavel Zarubin (JINR)**

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

10:20 **Peter Lukin (Novosibirsk, Russia)**

Recent results of the hadronic cross section measurements with the CMD-3 detector

**10:40-11:00 Coffee break**

Chairman E. Tomasi-Gustafsson

11:00 **Stepan Shimanskiy (JINR)**

Multiquark configurations in baryons and nuclei

11:40 **Alexey Stavinskiy (Moscow, Russia)**

Dense cold matter

12:00 **Nikolai Nikolaev (Chernogolovka, Russia)**

Spin dynamics for EDM at storage rings

12:30 **Rashid Nazmitdinov (JINR)**

Quantum Dots: from theory to applications

13:10 **Alexander Karpov (JINR)**

Superheavy elements research at Dubna: achievements and perspectives

13:50 **Aleksandr Malakhov (JINR), Valery Burov (JINR)**

Closing

14:00

**14:00 Pososhok**