

**September 15, Monday
Plenary Session
VBLHEP Conference Hall**

Chairman: A. Malakhov

10.00-10.15 Victor Matveev (JINR)

Opening

10:15-10:55 Yuri Oganessian (JINR)

Heavy ions in science and technology

10:55-11:30 Group photo, coffee break

Chairman: A. Taranenko

11:30-12:00 Victor Riabov (Russia/JINR)

Status and perspectives of the MPD at NICA

12:00-12:30 Mikhail Zavertyaev (Russia)

Status of BM@N experiment

12:30-14:00 Break

September 15, Monday
Parallel Session I
VBLHEP Conference Hall

Quantum chromodynamics at large distances

Chairman: V. Dzhunushaliev

14:00-14:30 **Shubham Sharma (Russia)**

Exploring Higher-Twist Hadron Structure in Light-Front QCD

14:30-14:50 **Roman Zhokhov (Russia)**

Phase diagram of QCD and two color QCD: dualities and inhomogeneous phases

14:50-15:20 **Artem Roenko (JINR)**

Chiral and deconfinement crossovers at finite quark spin density from lattice QCD

15:20-15:40 **Andrey Radzhabov (Russia)**

The light-by-light contribution to the anomalous magnetic moment of muon within the nonlocal chiral quark model with vector and axial-vector meson

15:40-16:00 Coffee break

Chairman: A. Radzhabov

16:00-16:20 **Jayanta Dey (JINR)**

Gluodynamics in accelerated frames using lattice simulation

16:20-16:40 **Ilya Kudrov (Russia)**

Studying properties of the SU(2) QCD by lattice field theory methods

16:40-17:00 **Daria Volkova (JINR)**

New analysis of the Bjorken sum rule based on the analytic perturbation theory

17:00-17:20 **Kirill Shilyaev (Russia)**

Contribution of linearly polarized gluons in charmonium production within the Soft Gluon Resummation approach

17:20-17:40 **Vladimir Dzhunushaliev (Kazakhstan)**

Color field configuration between three static quarks

17:40-18:10 **Alexander Osipov (JINR)**

Light quark masses

18-20 Welcome party (VBLHEP canteen)

20:00 Bus to the hotel

September 15, Monday
Parallel Session II
Auditorium 347 (3rd floor)

Relativistic heavy ion collisions

Chairman: M. Mamaev

14:00-14:20 **Alexander Borissov (JINR)**

Collective behavior of hyperons in Pb-Pb collisions with ALICE

14:20-14:40 **Pavel Gordeev (Russia)**

Production of $\Sigma^{\{+-\}}$ baryons in p-Pb and pp collisions at the LHC with ALICE

14:40-15:00 **Sergey Gevorgyan (JINR)**

Vector mesons photoproduction in ultra-peripheral ion-ion collisions

15:00-15:20 **Ekaterina Tsapulina (JINR)**

MPD-ITS Current status

15:20-15:40 **Evgeny Andronov (Russia)**

Two-particle rapidity correlations in strongly intensive quantities within string model

15:40-16:00 Coffee break

Chairman: V. Riabov

16:00-16:20 **Mikhail Mamaev (Russia/JINR)**

Directed flow of protons in Xe+CsI collisions at the beam energy of 3.8A GeV with BM@N

16:20-16:40 **Ibrahim Abdulmagead (Egypt /JINR)**

Impact of in-medium on proton scattering amplitude at incident energies 12.7-1000 MeV

16:40-17:00 **Mahmoud Nasar (Egypt)**

Pion Spectra and Entropy per Rapidity in Au–Au Collisions at NICA Energies Using HRG with Resonance Decays and Tsallis Distribution

17:00-17:30 **Oleg Golosov (Russia)**

Performance for inclusive photon and neutral pion spectra and anisotropic flow measurements with the MPD experiment

17:30-17:50 **Sergey Kiselev (Russia)**

Hadronic resonance production with ALICE at the LHC

17:50-18:10 **Peter Parfenov (Russia/JINR)**

Anisotropic flow in asymmetric Xe+W collisions at MPD-FXT

18-20 Welcome party (VBLHEP canteen)

20:00 Bus to the hotel

September 16, Tuesday
Plenary Session
VBLHEP Conference Hall

Chairman: V. Braguta

09:00-09:30 *Boris Kosyakov (Russia)*

The atomic nucleus as a bound system of 3A quarks

09:30-10:00 *Vladimir Karmanov (Russia)*

Relativistic light-front wave function of He-3

10:00-10:20 *Jovan Milosevic (Serbia)*

Azimuthal anisotropies from jets in pp, heavy ion collisions up to ultra cold gases

10:20-10:40 *Yubing Dong (China)*

Study of D_{03} and D_{30} dibaryons in a SU(3) chiral constituent quark model

10:40-11:00 Coffee break

Chairman: V. Karmanov

11:00-11:40 *Arkadiy Taranenko (Russia/JINR)*

25 years of heavy-ion physics at the RHIC

11:40-12:20 *Victor Braguta (JINR)*

Spatially inhomogeneous confinement/deconfinement phase transition in rotating gluodynamics and QCD

12:20-14:00 Break

September 16, Tuesday
Parallel Session I
VBLHEP Conference Hall

**Progress in experimental studies in high energy centers.
Relativistic heavy ion collisions**

Chairman: G. Feofilov

14:00-14:30 **Sergey Shulga (JINR)**

Measuring distributions of quark and gluon jets by jet parameters at a hadron collider

14:30-15:00 **Valentin Ustinov (JINR)**

The Liquid Scintillator Track Detector

15:00-15:30 **Vladimir Zherebchevsky (Russia)**

Modern silicon and scintillation detector systems for the experiments
at the NICA collider

15:40-16:00 Coffee break

Chairman: V. Zherebchevsky

16:00-16:20 **Faig Ahmadov (JINR)**

Study of the Higgs boson using various machine learning algorithms

16:20-16:40 **Marina Pokidova (Russia)**

Latest results of searches for invisible Higgs Boson decays in the ATLAS experiment

16:40-17:00 **Oleg Rogachevsky (JINR)**

Two particles correlations in HIC

17:00-17:20 **Grigory Feofilov (Russia)**

High-order net-proton cumulants and the event volume definition in A+A collisions
at NICA energies

17:20-17:40 **Snezhana Komarova (Russia)**

Neutral pion elliptic flow in p+Au collisions at 200 GeV

17:40-18:00 **Ivan Volkov (JINR)**

Simulation of Heavy-Ion Collisions for the SPD BBC Phase 0 Detector

18-20 Bus to the hotel

September 16, Tuesday
Parallel Session II
Auditorium 347 (3rd floor)

Polarization phenomena, spin physics

Chairman: V. Troshin

14:00-14:30 **Sergey Goloskokov (JINR)**

Exclusive J/Psi production and gluon GPDs effects

14:30-14:50 **Renat Sadykov (JINR)**

New developments in the ReneSANCe event generator

14:50-15:10 **Egor Ereemeev (JINR)**

On the equation of state of rotating gluon plasma

15:10-15:40 **Alexander Silenko (JINR)**

Relativistic quantum-mechanical description of acceleration of charged vortex particles by a uniform electric field

15:40-16:00 Coffee break

Chairman: S. Goloskokov

16:00-16:20 **Dmitrii Sychev (Russia/JINR)**

Lattice study of total momentum and free energy of rotating gluon plasma

16:20-16:50 **Mridupawan Deka (JINR)**

Neutrino spin oscillations in the vicinity of a black hole

16:50-17:10 **Maxim Dvornikov (Russia/JINR)**

Quantum field theory description of neutrino spin-flavor oscillations

17:10-17:30 **Daria Flusova (JINR)**

Global polarization of lambda hyperon in the MPD experiment at NICA energies

17:30-18:00 **Ivanhoe Pestov (JINR)**

Essence of charge and spin with general covariant Dirac equations

18-20 Bus to the hotel

September 16, Tuesday
Parallel Session III
NICA Hall (1st floor)

**Applied use of relativistic beams.
Cumulative and subthreshold processes**

Chairman: E. Andronov

14:00-14:20 **Rumen Gushterski (JINR)**

Importance of the neutron moderators for neutron induced reactions placed in massive spallation target and nuclear fuel in ADS

14:20-14:40 **Otgongerel Baatar (Mongolia)**

Analysis of $\alpha_S(q^2)$ of π^- mesons and protons from π^- -C interactions at 40 GeV/c and pp interactions at 205 GeV/c

14:40-15:00 **Khishigbuyan Narankhuu (Mongolia/JINR)**

Study of the running coupling constant of π^- mesons and protons from p+p and p+C interactions at 10 GeV/c

15:00-15:20 **Urangua Murdorj (Mongolia/JINR)**

Study of the running coupling constant of π^- mesons and protons from p+p and p+C interactions at 4.2 GeV/c

15:40-16:00 Coffee break

September 18, Thursday
Parallel Session I
VBLHEP Conference Hall

Hadron spectroscopy, multiquarks

Chairman: Kh. Abraamyan

09:00-09:30 **Ganbold Gurjav (JINR)**

Isospin symmetry violation in the strong decays of the spin-2 exotic state $X_2(4014)$

09:30-09:50 **Igor Obukhovsky (Russia)**

Non-nucleonic degrees of freedom in terms of the quark cluster approach

09:50-10:10 **Ivan Obraztsov (Russia)**

Charge asymmetry in the process $e^+e^- \rightarrow \pi^+\pi^-\pi^0\gamma$

10:10-10:40 **Yury Uzikov (JINR)**

Search for dibaryon resonances in the reactions $dd \rightarrow dd \pi \pi$ and $pd \rightarrow pd \pi \pi$

Coffee break 10:40-11:00

Chairman: G. Gurjav

11:00-11:20 **Vadzim Haurysh (Belarus)**

Charmonium and bottomonium electromagnetic characteristics in relativistic quark model

11:20-11:40 **Fedor Martynenko (Russia)**

Heavy tetraquarks in the hyperspherical approach

11:40-12:00 **Prokhor Egorov (JINR)**

Searches for glueballs at BESIII

12:00-12:20 **Khachik Abraamyan (JINR)**

Neutral and charged decay modes of the X_{17} boson observed in dCu collisions at a momentum of 3.8 GeV/c per nucleon

12:20-14:00 Break

September 18, Thursday
Parallel Session I
VBLHEP Conference Hall

Relativistic heavy ion collisions

Chairman: N. Bikmetov

14:00-14:20 **Vadim Dmitriev (Russia)**

Nonperturbative kinetic description of the vacuum QGP production in the Abelian projection methods

14:20-14:40 **Anton Anufriev (Russia)**

Holographic equation of state matched with hadron gas EoS as a tool for the study of the QGP evolution

14:40-15:00 **Marimuthu Natarajan (JINR)**

Exploring α -Particle Emission Induced by Relativistic Muons in Nuclear Emulsion

15:00-15:20 **Svetlana Simak (Russia)**

Predictions in modified Glauber model of total charged-particle yields in $^{16}\text{O} + ^{16}\text{O}$ and $^{20}\text{Ne} + ^{20}\text{Ne}$ collisions at LHC

15:20-15:40 **Alexander Demanov (Russia/JINR)**

Centrality determination in heavy-ion collisions at the NICA energy range

15:40-16:00 Coffee break

Chairman: V. Dmitriev

16:00-16:20 **Petr Alekseev (Russia/JINR)**

Baryon femtoscopy in 3.2 AGeV argon-nucleus interactions

16:20-16:40 **Roman Shindin (JINR)**

Search for anomalous leptons with masses in the range of 8-20 MeV at the Nuclotron

16:40-17:00 **Vadim Volkov (Russia)**

Measurements of Charged Fragments Spectators Yields in Xe+CsI reaction at 3.8 AGeV at BM@N

17:00-17:20 **Alexander D'yachenko (Russia)**

Manifestation of anisotropic hydrodynamics based on the latest data on pion and kaon emission in heavy-ion collisions in the BM@N experiment

17:20-17:40 **Artem Timofeev (JINR)**

Strange hadron production in Au+Au collisions at $\sqrt{s_{NN}}=3-27$ GeV with UrQMD

18:00 Bus to the hotel

19:00 Concert (Scientific Club)

September 18, Thursday
Parallel Session II
Auditorium 347 (3rd floor)

Cumulative and subthreshold processes

Chairman: A. Larionov

09:00-09:30 **Mikhail Tokarev (JINR)**

Cumulative processes and fractal structure of nuclei

09:30-09:50 **Tatiana Dedovich (JINR)**

Manifestation of nuclear effects in fractal analysis of Monte Carlo AMPT events using SePaC method

09:50-10:10 **Semyon Yurchenko (Russia)**

MC modelling of high transverse momentum particle production in pp and dd collisions at NICA energies

10:10-10:40 **Vladimir Vechernin (Russia)**

Formation of protons in a new cumulative region of central rapidities and large transverse momenta due to coherent coalescence of quarks

Coffee break 10:40-11:00

Chairman: M. Tokarev

11:00-11:20 **Alexei Larionov (JINR)**

A model of cumulative proton production in the process pd to ppn

11:20-11:50 **Georgy Sharkov (Russia)**

Development of experimental research program for multi-quark systems at high pT on Nuclotron

11:50-12:10 **Alexey Stavinskiy (Russia/JINR)**

Time-of-flight and coordinate criteria for two neutrons identification with 3D neutron detector

12:10-12:30 **Dmitriy Sakulin (JINR)**

Topological identification criteria two-neutron events in 3d neutron detector

12:30-14:00 Break

September 18, Thursday
Parallel Session II
Auditorium 347 (3rd floor)

Structure functions of hadrons and nuclei

Chairman: A. Kotikov

14:00-14:20 **Andrej Arbuzov (JINR)**

Electron structure functions

14:20-14:40 **Sergey Yurev (JINR)**

Relativistic generalization of the Faddeev-Yakubovsky equation

14:40-15:00 **Alexey Zhevlakov (JINR)**

T-odd and T-even hadronic structures of the Drell-Yan process. Small Q_T/Q expansion

15:00-15:20 **Mikhail Slautin (Russia/JINR)**

Space-like pion off-shell form factors in the Bethe-Salpeter approach

15:20-15:40 **Olga Solovtsova (Belarus/JINR)**

The 12-th order QED corrections to lepton anomalies due to vacuum polarization insertions within the Mellin-Barnes representation

15:40-16:00 Coffee break

Chairman: A. Arbuzov

16:00-16:20 **Dorota Kotlorz (JINR)**

Charge sum rules for quark fragmentation functions as a new manifestation of superconformal symmetry between mesons and baryons

16:20-16:50 **Minh Truong Vo (Vietnam/JINR)**

Multipole Expansion for Electron-Nucleus Scattering at High Energies: An Overview

16:50-17:20 **Anatoly Kotikov (JINR)**

Simple models of PDFs and nPDFs

17:20-17:40 **Yuri Obukhov (Russia)**

Ideal relativistic spin fluid model

18:00 Bus to the hotel

19:00 Concert (Scientific Club)

September 18, Thursday
Parallel Session III
NICA Hall (1st floor)

Projects NICA/MPD/SPD/BM@N at JINR

Chairman: P. Parfenov

09:00-09:20 **Sofiya Sokolova (JINR)**

DCS for TPC MPD: Integrating DIM and MasterScada 4D

09:20-09:40 **Alexander Bychkov (JINR)**

TPC geometries for NICA MPD simulations

09:40-10:00 **Nikolay Karpushkin (Russia/JINR)**

Study of the Response of the Forward Hadron Calorimeter and Forward Quartz Cherenkov Hodoscope in Xe+CsI Reactions at 3.8 AGeV at the BM@N

10:00-10:20 **Dim Idrisov (Russia)**

Comparison of methods for determining centrality in nucleus-nucleus collisions in the BM@N experiment

10:20-10:40 **Yonghong Wang (China/JINR)**

Simulation Study of Dileptons at $\sqrt{s_{NN}} = 9.2$ GeV Bi-Bi Collisions at NICA-MPD

Coffee break 10:40-11:00

Chairman: D. Flusova

11:00-11:20 **Dilyana Suvarieva (JINR)**

A Monte Carlo simulation of the MPD experiment performance for strange particle decay study

11:20-11:40 **Boris Kostenko (JINR)**

Why is it interesting to study proton-deuteron collisions at $\sqrt{s} \approx 8.9 - 9.7$ GeV and $t = 0.6 - 1.8$ GeV²

11:40-12:00 **Nikodim Makarov (Russia)**

Method for increasing the efficiency of registration of minimum ionizing particles by fast detector on microchannel plates

12:00-12:20 **Maxim Martemianov (Russia)**

Cosmic-rays generators test using ECal/MPD experimental data

12:20-12:40 **Irina Zhavoronkova (JINR)**

Directed flow of deuterons in Xe+Cs(I) collisions at 3.8A GeV at the BM@N experiment

12:40-13:00 **Victor Krylov (JINR)**

Microservices for online event data handling in MPD experiments

13:00-14:00 Break

September 19, Friday
Parallel Session I
VBLHEP Conference Hall

Dynamics of multiparticle production

Chairman: A. Baldin

09:00-09:30 **Elena Kokouline (JINR)**

Gluon dominance model and multiparticle production

09:30-09:50 **Lev Alimov (Russia)**

DD-pair production in the Parton Reggeization Approach within SPS and DPS scenarios

09:50-10:10 **Stanislav Smolyansky and Vadim Dmitriev (Russia)**

Exact Solutions in Kinetic Theory of the Vacuum Particle Production in SF QED and Graphene

10:10-10:30 **Roman Nikolaenko (Russia)**

Particles production in ATROPOS string fragmentation model

Coffee break 10:30-10:50

Chairman: E. Kokouline

10:50-11:10 **Aida Galoyan (JINR)**

Charmed particle production in nucleus-nucleus interactions in Geant4 FTF model

11:10-11:30 **Artem Korobitsin (JINR)**

Bose–Einstein Correlations of Charged Pion and Kaon Pairs at RHIC Energies Using the UrQMD and SMASH+vHLLE Models

11:30-12:00 **Nugzar Makhaldiani (JINR)**

Negative binomial distribution in multiparticle production and fractal dimension of black body

12:00-12:30 **Gennady Lykasov (JINR)**

K-mesons production and isospin-symmetry in pp and AA collisions

12:30-14:00 Break

September 19, Friday
Parallel Session I
VBLHEP Conference Hall

Relativistic heavy ion collisions

Chairman: V. Kireyeu

14:00-14:20 **Aleksandr Svetlichnyi (Russia)**

Forward neutrons from 12C-12C and 40Ca-40Ca collisions in the SPD experiment as a probe of nucleon-nucleon correlations

14:20-14:40 **Tatiana Mikhailova (JINR)**

Target dependence of fragmentation reaction cross-sections at intermediate energies and its calculation in the relativistic and low-energies oriented models

14:40-15:00 **Kirill Galaktionov (Russia)**

Addressing heavy ion collision parameters estimation challenges via neural network techniques

15:00-15:20 **Nikita Bikmetov (JINR)**

Collective flow harmonics correlations analysis for model data at Nuclotron-NICA energies

15:20-15:40 **Vladimir Kovalenko (Russia)**

Multiplicity dependent transverse momentum distributions of hadrons of different species in the extended multipomeron exchange model

15:40-16:00 Coffee break

Chairman: V. Kovalenko

16:00-16:30 **Natalia Kolomoiets (JINR)**

Analysis of light hadron spectra obtained with MPDRoot for Bi+Bi collisions at $\sqrt{s_{NN}} = 9.2$ GeV

16:30-16:50 **Olga Shaposhnikova (Russia)**

Ratios of the average transverse energy density for ϕ , K^+ , K^- and K^* mesons in the range $\sqrt{s_{NN}} = 39$ GeV - 2.76 TeV and hypothesis of a common production source

16:50-17:10 **Viktar Kireyeu (JINR)**

Identifying the mechanism of light nuclei production

17:10-17:30 **Polina Gridiaeva (Russia)**

Recovering collision energy characteristics from geometrically constrained data by machine learning

17:30-18:00 **Ehtiram Shahaliyev (JINR)**

First Measurements of Φ Meson Production in pp Collisions at $\sqrt{s_{NN}} = 510$ GeV

18:30 Banquet (VBLHEP canteen)

21:00 Bus to the hotel

September 19, Friday
Parallel Session II
Auditorium 347 (3rd floor)

Relativistic heavy ion collisions

Chairman: V. Melezhik

09:00-09:30 **Alexandru Parvan (JINR)**

Transverse Momentum Spectra of Hadrons in the Blast-Wave Model with Local Equilibrium and Tsallis Statistics with Global Equilibrium

09:30-09:50 **Valery Troshin (JINR)**

Collective flow of lambda hyperons in the MPD experiment at NICA energies

09:50-10:10 **Ivan Borisov (Russia)**

Parton energy loss in Cu+Au and U+U collisions at $\sqrt{s_{NN}}=200$ and 193 GeV, respectively

10:10-10:30 **Alexey Povarov (Russia)**

Directed, elliptic and triangular flow of charged hadrons in O + O, Kr + Kr and Xe + Xe collisions at $\sqrt{s_{NN}} = 6$ GeV in UrQMD model for SPD experiment

Coffee break 10:30-10:50

Nuclear astrophysics

Chairman: A. Parvan

10:50-11:20 **Vladimir Melezhik (JINR)**

Threshold amplification of X(a,b)Y reactions: from muon-catalyzed fusion to electromagnetic formfactors of hyperons

11:20-11:50 **Chitta Ranjan Das (JINR)**

Strangelet Searches from Neutron Stars and Binary Mergers with Current and Future Observatories

11:50-12:10 **Vladimir Kondratyev (JINR)**

Magnetorotational supernova neutrino spectra vs mass ordering

12:10-12:30 **Artur Nasakin (Russia)**

Neutron Stars with Λ - and Ξ -Hyperons with Skyrme Potentials: Correlations and a Parametrization for the Maximum Mass

12:30-14:00 Break

September 19, Friday
Parallel Session II
Auditorium 347 (3rd floor)

Dynamics of multiparticle production

Chairman: G. Musulmanbekov

14:00-14:30 **Anton Baldin (JINR)**

The development of the ideas of A.M.Baldin on description of multiparticle production in relativistic nuclear collisions based on the properties of the Lobachevsky space

14:30-14:50 **Elina Baldina (JINR)**

Self-similarity method in relativistic nuclear physics

14:50-15:10 **Anastasia Ponomareva (JINR)**

Application of Differential Geometry Methods for Analyzing Experimental Data on Multiple Particle Production in Relativistic Nuclear Physics

15:40-16:00 Coffee break

Studies of exotic nuclei in relativistic beams

Chairman: P. Zarubin

16:00-16:30 **Genis Musulmanbekov (JINR)**

The Structure of Light Nuclei in Strongly Correlated Quark Model

16:30-17:00 **Sergey Afanasiev (JINR)**

Synthesis of neutron-rich nuclei at the NICA complex

17:00-17:20 **Denis Artemenkov (JINR)**

Dissociation features of light relativistic nuclei in fragmentation process in nuclear track emulsions

17:20-17:40 **Dmitry Dryablov (JINR)**

Status of the SCAN-3 at the Nuclotron internal targets

17:40-18:00 **Nadezhda Kornegrutsa (JINR)**

Study the fragmentation of ^7Be nuclei in mixed beam with nuclear track emulsion

18:30 Banquet (VBLHEP canteen)

21:00 Bus to the hotel

September 19, Friday
Parallel Session III
NICA Hall (1st floor)

Projects NICA/MPD/SPD/BM@N at JINR

Chairman: D. Finogeev

09:00-09:20 **Dmitrii Zinchenko (JINR)**

Performance of the Vector Finder toolkit for track reconstruction at the BM@N experiment

09:20-09:40 **Aleksandr Zubankov (Russia)**

Measurements of neutrons in the Xe+CsI reaction by the Highly Granular Neutron Detector prototype in the BM@N experiment

09:40-10:00 **Arseniy Shabanov (Russia)**

A novel method for neutron energy spectrum reconstruction with the HGND in the BM@N experiment

10:00-10:20 **Vladimir Bocharnikov (Russia)**

Graph Neural Network-based Neutron Reconstruction in the HGND at the BM@N experiment

10:30-10:50 Coffee break

Chairman: A. Shabanov

10:50-11:10 **Dmitry Finogeev (Russia)**

The Highly Granular Time-of-Flight Neutron Detector for the BM@N experiment

11:10-11:30 **Dmitrii Dementev (JINR)**

Development of a New Silicon Tracking Station for the BM@N Hybrid Tracker

11:30-11:50 **Victor Baryshnikov (JINR)**

Status of the Electromagnetic Calorimeter Testing for the MPD Experiment at the NICA Collider

11:50-12:10 **Slavomir Hnatic (JINR)**

TPC Tracking for the MPD Experiment

12:10-12:30 **Sudhir Pandurang Rode (JINR)**

Electron Identification using Machine Learning in the MPD Experiment at NICA

12:30-12:50 **Alexander Strizhak (Russia)**

Tasks and status of Forward Hadron Calorimeter at MPD

12:50-14:00 Break

September 20, Saturday
Plenary Session
VBLHEP Conference Hall

Chairman: S. Bondarenko

09:00-09:40 **Alexander Zakharov (Russia/JINR)**

Nearly forgotten results in development of physical cosmology

09:40-10:20 **Oleg Teryaev (JINR)**

Polarization and gravity in hadronic and heavy-ion collisions

10:20-10:40 Coffee break

Chairman: O. Teryaev

10:40-11:20 **Pavel Zarubin (JINR)**

Highlights of Unstable States in Relativistic Dissociation of Light Nuclei

11:20-11:50 **Aleksandr Malakhov (JINR)**

Jets and quarks at the NICA collider

11:50-12:00 **Serge Bondarenko, Aleksandr Malakhov (JINR) (JINR)**

Closing

12:00 Coffee (Na pososhok)