

September 10, Monday
VBLHEP Conference Hall
Plenary Session

10.00 *Itkis Mikhail (JINR), Prokh Valery (Russia)*
Opening

Chairman Itkis M.

Progress in experimental studies in the high energy centers

10.20 *Pondrom Lee (USA)*
Search for double partons at CDF

10.50 **Photo**

Coffee break 11.00 – 11.30

Chairman Burov.V.

11.30 *Lanyov Alexander (JINR)*
Overview of recent CMS results at $\sqrt{s} = 7$ and 8 TeV

12.10 *Cheplakov Alexander (JINR)*
Status and Recent Results of the ATLAS Experiment

Break 12.50 – 15.00

Quantum chromodynamics at large distances

Chairman Malakhov A.

15.00 *Musakhanov Mirzayusuf (Uzbekistan)*
QCD in infrared region and spontaneous breaking of the chiral symmetry

15.40 *Konopleva Nelly (Russia)*
Gauge field mass problem in new aspect

16.00 *Burov Valery (JINR)*
Relativistic theory of nucleon-nucleon interaction

Coffee break 16.40 – 17.10

September 10, Monday
VBLHEP Conference Hall
Plenary Session

Structure functions of hadrons and nuclei

Chairman Tatischeff B.

17.10 ***Bondarenko Serge (JINR)***

Effects of the final-state interaction for the exclusive deuteron
electrodisintegration

17.30 ***Karmanov Vladimir (Russia)***

Solving Bethe-Salpeter equation for the scattering states

17.50 ***Bolzoni Paolo (Germany)***

Timelike structure functions and hadron multiplicities

18.30 ***Pacetti Simone (Italy)***

Time-like and space-like electromagnetic form factors of nucleons, a unified
description

18.50

19.00 Welcome party

September 11, Tuesday
VBLHEP Conference Hall
Plenary Session

Relativistic heavy ion collisions

Chairman Pondrom L.

9.00 ***Evdokimov Olga (USA)***

Resent heavy ion results from STAR

9.40 ***Pantuev Vladislav (Russia)***

Recent results from Phenix experiment at RHIC

10.20 ***Kugler Andrej (Czech Republic)***

HADES experiments investigating in-medium hadron properties

Coffee break 11.00 – 11.30

Hadron spectroscopy, multiquarks

Chairman Karmanov V.

11.30 ***Tatischeff Boris (France)***

What do fractals learn us concerning fundamental particle masses and hadron masses?

12.10 ***Surovtsev Yury (JINR)***

Combined analysis of processes $\pi\pi \rightarrow \pi\pi K\bar{K}$, $\eta\eta$ and J/ψ decays and parameters of scalar mesons

12.50 ***Ivanov Mikhail (JINR)***

Multiquark states in the covariant quark confinement model

Break 13.30 – 15.00

September 11, Tuesday
VBLHEP Conference Hall
Parallel Session A

Hadron spectroscopy, multiquarks

Chairman Obukhovskiy I.

- 15.00 **Faustov Rudolf (Russia)**
Spectroscopy and regge trajectories of heavy quarkonia and Bc mesons
- 15.40 **Ganbold Gurjav (JINR)**
Infrared confinement and meson spectroscopy
- 16.00 **Dineykhon Minal (JINR)**
Determination of mass spectrum and decay constants mesons

Coffee break 16.20 – 17.10

Hadron spectroscopy, multiquarks

Chairman Faustov R.

- 17.10 **Obukhovskiy Igor (Russia)**
Quark and hadron degrees of freedom in the Roper resonance electroproduction
- 17.30 **Jerusalimov Alexander (JINR)**
Elastic scattering in np-interactions at intermediate energies
- 17.50 **Zhevlakov Alexey (Russia)**
Contribution to anomalous magnetic moment of muon from light-by-light processes with intermediate scalar and pseudoscalar states in nonlocal quark model
- 18.30

September 11, Tuesday
Auditorium 347
Parallel Session B

Quantum chromodynamics at large distances

Chairman Vechernin V.

15.00 *Eliseev Sergey (JINR)*

The signals of partial restoration of chiral symmetry in medium at intermediate energy: experimental data vs. theory

15.20 *Mayburov Sergey (Russia)*

Fuzzy geometry and large distance gauge fields

15.40 *Koryukin Valery (Russia)*

Quasi-group symmetries, stochastic processes and the hadron stability

16.00 *Kosmachev Oleg (JINR)*

On the possibility of massless neutrino oscillations

Coffee break 16.20 – 17.10

Quantum chromodynamics at large distances

Chairman Ilgenfritz E.-M.

17.10 *Fadeev Nikolay (JINR)*

The way for estimation of the space-time particle production volume in particle collisions

17.30 *Bubelev Engely (JINR)*

Lobachevsky geometry true sense and "Lobachevsky genera education" urgency in high energy physics

17.50 *Tarantin Nikolai (JINR)*

Possible interpretation of the puzzier at the LHC so-called "ridge"-effect new consideration of pairing and residual interactions in of nucleons in atomic nuclei and the new scenario of the synteze of p-nuclei in universe

18.10 *Machavariani Alexander (JINR)*

Field theoretical approach to the NN-NN pi and Nd-NN systems with and without quarks-gluon degrees of freedom

18.40

September 12, Wednesday
VBLHEP Conference Hall
Parallel Session A

Dynamics of multiparticle production

Chairman Smolyansky S.

- 9.00 **Tokarev Mikhail (JINR)**
Z-scaling: inclusive jet spectra at RHIC, TEVATRON and LHC
- 9.40 **Dedovich Tatjana (JINR)**
BC, PaC and SePaC methods for fractal analysis of events
- 10.00 **Aparin Alexey (JINR)**
Self-similarity of high- P_t hadron production in pA collisions
- 10.20 **Makhaldiani Nugzar (JINR)**
Renormdynamics, coupling constant unification and universal properties of the multiparticle production

Coffee break 11.00 – 11.30

Dynamics of multiparticle production

Chairman Tokarev M.

- 11.30 **Smolyansky Stanislav (Russia)**
The photon cluster excitation mechanism of the e-e+ plasma created from vacuum in a strong electromagnetic field
- 11.50 **Abramovsky Victor (Russia)**
Comparison of the data on proton-proton and proton-antiproton interactions at high energies on basis of the Low Constituents Number Model
- 12.30 **Abramovskaya Natalia (Russia)**
Comparison of the triggers of the ATLAS, ALICE and CMS experiments and the trigger of the UA1 experiment. Analysis of proton-proton and proton-antiproton interactions on basis of the MC event generator Pythia
- 12.50 **Vechernin Vladimir (Russia)**
The dependence of the number of pomerons on the impact parameter and the long-range rapidity correlations in pp collisions
- 13.10 **Vasiliev Taras (JINR)**
Study of the the high pT pion and strangeness production in heavy ion collisions for the experiments with fixed target

Break 13.30– 15.00

Dubna, Russia
Joint Institute for Nuclear Research

September 12, Wednesday
Auditorium 347
Parallel Session B

Applied use of relativistic beams

Chairman Baldin A.

- 9.00 **Furman Walter (JINR)**
Study of ads with 500kg natural uranium target irradiated by deuterons with energies from 1 to 8 GeV at JINR NUCLOTRON
- 9.40 **Kilim Stanislaw (Poland)**
Irradiation history and resulting isotope decay scheme influence on yttrium sample gamma activity
- 10.00 **Zhuk Ihar (Belarus)**
Spatial distribution of natural U fission rate in QUINTA subcritical assembly irradiated by 1, 4, 6 and 8 GeV deuteron's beams
- 10.20 **Paraipan Mihaela (JINR)**
Investigation of the possibility to use ion beams for ADS through simulation in GEANT4
- 10.40 **Zavorka Lukas (JINR)**
A summary of experimental results on the reactions in uranium samples irradiated with a deuteron beam of energies up to 8 GeV at the QUINTA target

Coffee break 11.00 – 11.30

Chairman Furman W.

- 11.30 **Husak Kristina (Belarus)**
Deuterons beam parameters measurements of the NUCLOTRON
- 11.50 **Wagner Vladimir (Czech Republic)**
Studies of deuteron and neutron cross-sections important for ads
- 12.10 **Suchopár Martin (Czech Republic)**
Monte Carlo simulations of natural uranium setups irradiated with relativistic deuterons by means of MCNPX code
- 12.30 **Bielewicz Marcin (Poland)**
On results of Y-89 Irradiation with deuteron beam on QUINTA -assembly "E+T — RAW" using Nuclotron (JINR)
- 12.50 **Szuta Marcin (Poland)**
Analysis of potential advanced thorium based fuel for EPR reactor
- 13.10 **Adam Jndra (JINR)**
The investigations of reaction rates in Th interacted with neutrons in QUINTA subcritical assembly irradiated by 2, 4 and 6 GeV deuterons
- 13.30 **Kudashkin Ivan (Russia)**
The MCP-based system for monitoring space-time characteristics of circulating beam of Nuclotron

Break 13.50 – 15.00

Dubna, Russia
Joint Institute for Nuclear Research

September 12, Wednesday
VBLHEP Conference Hall
Parallel Session A

Dynamics of multiparticle production

Chairman Słowiński B.

- 15.00 **Lykasov Gennady (JINR)**
Heavy flavour production in p-p collisions and intrinsic quark components in proton
- 15.40 **Feofilov Grigory (Russia)**
Forward-backward multiplicity correlations in pp collisions in ALICE at 0.9, 2.76 and 7 TeV
- 16.00 **Dmitriev Aleksandr (Russia)**
Analysis of differences on pseudorapidity multiplicities spectrum at LHC and UA1/UA5 experiments
- 16.20 **Kovalenko Vladimir, Vechernin Vladimir (Russia)**
Model of pp and AA collisions for the description of long-range correlations

Coffee break 16.40 – 17.10

*Dynamics of multiparticle production,
Accelerator facilities: status and perspectives*

Chairman Feofilov G.

- 17.10 **Amalsky Gennady (Russia)**
Possible origin of observed at incident proton energy 50 GeV events
 $pp \rightarrow pp+n \pi$ with anomalous multiplicity
- 17.30 **Słowiński Bronislaw (Poland)**
Longitudinal profiles, fluctuations and correlations of electromagnetic cascades produced by 100-3500 MeV gamma quanta in heavy amorphous media
- 17.50 **Yudin Ivan (JINR)**
The field distribution into the spin-turning magnet for the Delta-Sigma experiment
- 18.10 **Maevskaya Alla (Russia)**
Start and trigger detector T0 of the ALICE experiment
- 18.30 **Patsyuk Maria (Germany)**
R&D for the PANDA Barrel DIRC
- 19.00

September 12, Wednesday
Auditorium 347
Parallel Session B

Applied use of relativistic beams

Chairman Wagner V.

15.00 ***Martsynkevich Barys (Belarus)***

Determination of fast neutron spectrum by a deformation of the reference spectrum expanded on Legendre polynomials in according to reaction rates in threshold detectors

15.20 ***Voronko Vladimir (Ukraine)***

Neutrons generation by relativistic deuterons in the uranium target of assembly "QUINTA-M"

15.40 ***Westmeier Wolfram (Germany)***

Suggested investigations concerning unresolved experimental observations

16.00 ***Zhdanov Sergey (Kazakhstan)***

A PYF2-based technique for measuring the effective energy of beam-generated neutrons provoked fission in the interior of thick uranium targets

16.20 ***Polanski Aleksander, Musulmanbekov Genis (JINR)***

Development of dynamic model for simulation of nuclear spallation

Coffee break 16.40 – 17.10

Polarization phenomena, spin physics

Chairman Piskunov N.

17.10 ***Lomov Vladimir (Russia)***

Top quark as resonance: renormalization and spin effects

17.30 ***Ladygina Nadezhda (JINR)***

Differential cross sections and analyzing powers in the $dd \rightarrow {}^3\text{He} n$ reaction at intermediate energies

17.50 ***Ivanov Nikolay (Armenia)***

Perturbative stability of the QCD predictions for the ratio $R = F_L/F_T$ and azimuthal asymmetry in heavy-quark leptonproduction

18.10 ***Chavleishvili Mikhail (JINR)***

Puzzle of high energy pp-scattering. helicity conservation from perturbative QCD or kinematic hierarchy?

18.30 ***Gurchin Yury (JINR)***

The differential cross-section on dp-elastic scattering at 880 MeV obtained at Nuclotron

18.50 ***Lyuboshitz Valery (JINR)***

Pair correlations of internal quantum numbers and entangled two-particle states

19.10

Dubna, Russia
Joint Institute for Nuclear Research

September 13, Thursday
VBLHEP Conference Hall
Parallel Session A

Structure functions of hadrons and nuclei

Chairman Lukyanov V.

- 9.00 **Shebeko Aleksandr (Ukraine)**
A new approach to the theory of electromagnetic interactions with bound systems: calculations of deuteron magnetic and quadrupole moments
- 9.20 **Destefanis Marco (Italy)**
Measuring the phase between strong and EM J/ψ decay amplitudes
- 10.00 **Pavlov Fedor (Russia)**
Relativistic correction to the first moment of the spin-dependent structure function of the deuteron $\Gamma^d_1(q^2)$ in the light-cone formalism
- 10.20 **Malyshev Maxim (Russia)**
Prompt photon and associated heavy quark production in the kt-factorization approach
- 10.40 **Skachkov Nikolai (JINR)**
Processes with photons at D0 experiment

Coffee break 11.00 – 11.30

Chairman Shebeko A.

- 11.30 **Kotikov Anatoly (JINR)**
Small x behavior of parton densities
- 12.10 **Kudinov Maxim (Russia)**
"Non-Rosenbluth" behavior of the proton form factors and the violation of the CP-symmetry
- 12.30 **Gabdrakhmanov Il'nur (Russia)**
Subtractions in exclusive vector meson production
- 12.50 **Klopot Yaroslav (JINR)**
Nonperturbative QCD and transition form factors

Break 13.30 – 15.00

September 13, Thursday
Auditorium 347
Parallel Session B

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

Chairman Kugler A.

- 9.00 ***Fedorišin Ján (JINR)***
Cathode pad chambers at NICA/MPD
- 9.20 ***Ladygin Vladimir (JINR)***
Study of strange matter production at Nuclotron (BM@N-project)
- 9.40 ***Terekhin Arkadiy (JINR)***
Preparation of experiments to study light nuclei structure at Nuclotron
- 10.00 ***Abraamyan Khachik (JINR)***
Observation of the E(38)-boson
- 10.20 ***Kokoulina Elena (JINR)***
The evidence for pion condensation formation in pp at U-70
- 10.40 ***Kulikov Viacheslav (Russia)***
High energy protons from C-12 fragmentation

Coffee break 11.00 – 11.30

Relativistic heavy ion collisions

Chairman Ladygin V.

- 11.30 ***Kurilkin Pavel (JINR)***
New data on the differential cross section of dp- elastic scattering at 2.5 GeV obtained with HADES Detector
- 11.50 ***Kurilkin Aleksey (JINR)***
Double pion production in np and pp collisions at 1.25 GeV with HADES
- 12.10 ***Boyda Denis, Shirmovsky Sergey (Russia)***
Mathematical model of DNA lesions
- 12.30 ***Suleymanov Mais (Pakistan)***
Pseudorapidity spectra of secondary particles emitted in the relativistic nucleus-nucleus collisions
- 12.50 ***Sewailem Shaban (Egypt)***
Scattering of K(+) meson from Ca(40) nucleus
- 13.10 ***Khan Kamal, Suleymanov Mais (Pakistan)***
Observation of light nuclei formation nuclear coalescence in HeC and CC- interactions at 4.2 A GeV/c

Break 13.30 – 15.00

Dubna, Russia
Joint Institute for Nuclear Research

September 13, Thursday
VBLHEP Conference Hall
Parallel Session A

Quantum chromodynamics at large distances

Chairman Lyubovitsky V.

15.00 ***Kataev Andrei (Russia)***

Theoretical manifestaion of the conformal symmetry in the expressions for the polarized DIS sum rules

15.40 ***Solovtsova Olga (Belarus)***

On manifestation of quark-hadron duality via the Adler D-function

16.00 ***Bugaev Kyrill (Ukraine)***

Adiabatic chemical freeze-out and wide resonance modification in a thermal media

Coffee break 16.40 – 17.10

VBLHEP Conference Hall
Plenary Session

Studies of exotic nuclei in relativistic beams

Chairman Strokovsky E.

17.10 ***Majlingova Olga (Czech Republic)***

Hyperfragments from light p-shell hypernuclei

17.30 ***Polyanskiy Valeriy (Russia)***

Studies of eta-mesic nuclei at the LPI electron synchrotron

17.50 ***Artemenkov Denis (JINR)***

Radioactive nuclei stopped in nuclear track emulsion

18.10

19.30 Concert

September 13, Thursday
Auditorium 347
Parallel Session B

Relativistic heavy ion collisions

Chairman Baatar Ts.

- 15.00 *Yukalov Vyacheslav (JINR)*
Models of mixed quark-hadron matter
- 15.40 *Titov Arsenii (Russia)*
Net charge fluctuations in AA collisions in a simple string-inspired model
- 16.00 *Prikhod'ko Nikolay (Russia)*
Homogeneous Balitsky-Kovchegov hierarchy and Reggeon field theory
- 16.20 *Topilskaya Natalia (Russia)*
Charmonium production in heavy ion collisions

Coffee break 16.40 – 17.10

September 14, Friday
VBLHEP Conference Hall
Plenary Session

Relativistic heavy ion collisions

Chairman Shimanskiy S.

- 9.00 ***Hanna Kamal (Egypt)***
Microscopic pion-nucleon and nucleus scattering at intermediate energies
- 9.20 ***Filip Peter (Slovakia)***
Influence of ground-state vibration and deformation of nuclei on the Elliptic flow
- 9.40 ***Ajaz Muhammad, Suleymanov Mais (Pakistan)***
Nuclear transparency effect in proton and deuteron carbon interaction with carbon nuclei
- 10.00 ***Parvan Alexandru (JINR)***
The nuclear first order phase transition at intermediate energies
- 10.20 ***Rogochaya Elena (JINR)***
Kaon femtoscopy correlations in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV from the ALICE experiment at LHC

Coffee break 10.40-11.10

Cumulative and subthreshold processes

Chairman Stavinskiy A.

- 11.10 ***Shimanskiy Stepan (JINR)***
Experimental study of cold dense baryon matter in high p_T processes
- 11.50 ***Mikhailov Konstantin (Russia)***
Double cumulative photon spectra at mid rapidity and high p_T in C+Be collisions at 2.0 and 3.2 AGeV
- 12.10 ***Kostenko Boris (JINR)***
Possible development of cumulative particle experiments with NICA facility
- 12.50 ***Kiselev Yury (Russia)***
Probing of the transverse momentum dependent parton distributions in cumulative reactions

Break 13.10 – 15.00

September 14, Friday
VBLHEP Conference Hall
Plenary Session

Quantum chromodynamics at large distances

Chairman Ivanov M.

- 15.00 **Gerasimov Sergo (JINR)**
On possible role of non Q bar-Q admixtures in light (pseudo)scalar mesons
- 15.20 **Efimov Gariy (JINR)**
Stationary Schroedinger equation and functional integral
- 15.40 **Lyubovitsky Valery (Germany)**
Baryon structure in AdS/QCD
- 16.00 **Lukyanov Valery (JINR)**
Pion-nucleus microscopic optical potential at intermediate energies and in-medium effect on the elementary pi-N scattering amplitude
- 16.20 **Baatar Tseepeldorj (Mongolia)**
Study of the phase transition in π^-C interactions at 40 GeV/c

Coffee break 16.40 – 17.00

Chairman Efimov G.

- 17.00 **Krasavin Evgeny (JINR)**
Accelerated heavy ions as a tool for solving problems in fundamental and space radiobiology
- 17.30 **Pervushin Victor (JINR)**
Condesate conformal simmetry breaking
- 18.10 **Bogolubsky Igor (JINR)**
On the continuum limit of Landau gauge gluon and ghost propagators in SU(2) lattice gauge gluodynamics
- 18.30 **Goy Vladimir, Molochkov Alexander (Russia)**
Witten parameter in the SU(2)-gluedynamics
- 18.50 **Bondarenko Serge (JINR)**
About the Proceedings
- 18.55

19.00 Banquet

September 15, Saturday
VBLHEP Conference Hall
Plenary Session

Progress in experimental studies in the high energy centers

Chairman Zarubin P.

- 9.00 **Ivanov Sergey (Russia)**
Light Ions in Accelerator Complex U70 of IHEP
- 9.40 **Nedorezov Vladimir (Russia)**
QED Non-linear effects in photonuclear processes
- 10.00 **Leckey John (USA)**
The Hall D physics program at JLab
- 10.40 **Drutskoy Alexey (Russia)**
The SuperB project

Coffee break 11.00-11.30

Chairman Ivanov S.

- 11.30 **Malakhov Alexander (JINR)**
Asymptotic Properties of the Nuclear Matter
- 11.50 **Kiselev Sergey (Russia)**
Resonance results with the ALICE experiment in pp and Pb-Pb collisions at LHC energies
- 12.10 **Nesterenko Valentin (JINR)**
Nanosystems: physics, applications, perspectives
- 12.50 **Itkis Mikhail (JINR)**
Study of superheavy nuclei at JINR
- 13.30 **Kekelidze Vladimir (JINR)**
Status and physics at NICA
- 14.00 **Burov Valery (JINR), Malakhov Alexander (JINR)**
Closing
- 14.10 **Na pososhok**