October 4, Monday
Conference Hall of BLTP JINR
Plenary Session

Chairman V. Voronov

10.00 ***Malakhov A., Burov V.*** (JINR)
Opening
10.20 ***Itkis M.*** (JINR)

Quantum Chromodynamics at the Large Distances

10.40 ***Prokhorov L.*** (Russia)
On Nature of Symmetries

Coffee break 11.00 – 11.30

Chairman V. Burov

11.30 ***Musakhanov M.*** (Uzbekistan)
Heavy-light Quark Systems in the Instanton Vacuum
12.00 ***Voutier E.*** (France)
Polarized Electrons and Positrons for Hadron Imaging
12.30 ***Konopleva N.*** (Russia)
Gauge Fields and Gravity

Break 13.00 – 14.00

Progress in experimental studies at the high energy accelerators

Chairman A. Malakhov

14.00 ***Punjabi V.*** (USA)
New Measurements of G_{Ep}/G_{Mp} to high Q^2 at Jefferson Lab
14.30 ***Perdrisat C.F.*** (USA)
Measurements of G_{Ep}/G_{Mp} to high Q^2 with 11 GeV Electrons at Jefferson Lab
15.00 ***Boucher J.*** (France)
Time-like Electromagnetic Proton Form Factors
15.30 ***Wojtsekhowski B.*** (USA)
Review of Neutron Form Factors

Break 16.00 – 16.10

October 4, Monday
Conference Hall of BLTP JINR
Plenary Session

Relativistic Heavy Ion Collisions.
Structure Functions of Hadrons and Nuclei*

Chairman V. Lukyanov

16.10 ***Malakhov A.*** (JINR)
Asymptotics in Relativistic Nuclear Physics

16.30 ***Baldin A.*** (JINR)
Collective Effects in Relativistic Nuclear Physics:
Historic Survey and Prospects

17.00 ***Karmanov V.*** (Russia)
Solving Bethe-Salpeter Equation in Minkowski Space

17.25 ***Dorkin S.*** (JINR)
Heavy mesons in Bethe-Salpeter Approach

17.45 ***Rogochaya E.*** (JINR)
Bethe-Salpeter Approach with the Covariant Separable
Kernel for the Electrodisintegration of the Deuteron

18.05 ***Bondarenko S.*** (JINR)
Relativistic Properties of the Deuteron in the Bethe-Salpeter Approach

18.25 ***Molochkov A.*** (Russia)
Relativistic Structure of Nuclei

18.50 End of the session

19.00 ***Welcome Party (BLTP Cafeteria)***

* ***Session in Honor of the 61th Birthday of Professor V. Burov***

October 5, Tuesday
Conference Hall of BLTP JINR
Parallel Session

Relativistic Heavy Ion Collisions

Chairman C. Perdrisat

9.00 ***Vechernin V.*** (Russia)
Long-range Rapidity Correlations in the Model with Independent Emmiters

9.20 ***Vokal S.*** (Slovakia)
Pseudorapidity Spectra of Relativistic Particles Emitted
in the Au and Pb Induced Reactions at High Energies

9.40 ***Tchuvil'sky Yu.*** (Russia)
Pauli Repulsion Energy and the Properties of Door-Way States
in Relativistic Central Heavy Ion Collisions

Coffee break 10.40 – 11.10

Hadron spectroscopy

Chairman S. Gerasimov

11.10 ***Aslanyan P.*** (JINR)
J-PARC P02 project: "The Study of Exotic Multiquark States
in Systems with Λ-Hyperons, K^0_S -Mesons and γ - Quanta"

11.50 ***Khrykin A.*** (JINR)
The Case for the NN-decoupled Dibaryon $d^*_1(1956)$

12.10 ***Dineykhan M.*** (JINR)
Determination of the Mass Spectrum of (cb) Mesons
with Relativistic Corrections

12.30 ***Uzikov Yu.*** (JINR)
Formation of the $^1S_0$ Diproton in the Reaction $pp \rightarrow pp_S\pi^0$

12.50 ***Jerusalimov A.*** (JINR)
Study of the Reaction $np \rightarrow np\pi^+\pi^-$ at Intermediate Energies

Break 13.10 – 15.00

October 5, Tuesday
Blokhintsev Auditorium of BLTP JINR
Parallel Session

Multiparticle dynamics

Chairman M. Tokarev

9.00 ***Abramovsky V.A.*** (Russia)
The Different in Inclusive Spectra of Proton-Proton and Proton-antiproton Collisions at $\sqrt{S}$ = 900 GeV

9.20 ***Alakhverdyants A.*** (JINR)
The Kinematical Fit for Neutral Strange Particle Reconstruction

9.40 ***Zborovsky Im.*** (Czech Republic)
Saturation of Hadron Production in Proton-(anti)Proton Collisions at Low P_T

10.20 ***Dedovich T.*** (JINR)
P-adic Coverage Method in Fractal Analysis of Showers

Coffee break 10.40 – 11.10

Chairman V. Glagolev

11.10 ***Slowinski B.*** (Poland)
Impact Parameter Estimation in Hadron-Nucleus Interactions at Intermediate Energies

11.30 ***Eliseev S.*** (JINR)
Finite Formation Time of Hadrons and QGP Production: to be or not to be?

11.50 ***D'yachenko A.*** (Russia)
On the Harderning of the Spectrum of High-Energy Particles Formed in Heavy Ion Collisions Considered within the Framework of the Hydrodynamic Approach

12.10 ***Tokarev M.*** (JINR)
Search for Signature of Phase Transition and Critical Point in Heavy Ion Collisions

12.30 ***Feofilov G.*** (Russia)
Long-range (Forward-backward) Pt and Multiplicity Correlations in ALICE in pp Collisions at 900 GeV

12.50 ***Filinov V.*** (Russia)
Stochastic Simulations of Thermodynamic and Kinetic Properties of Strongly Coupled Quark-Qluon Plasmas in Feynman and Wigner Representation of Quantum Statistical Mechanics

13.10 ***Knyazev N.*** (Russia)
Equation of State of Multi-Component Hadronic Gas with Van der Waals Correction and Phase Transition to Quark-Qluon Plasma

Break 13.30 – 15.00

October 5, Tuesday
Conference Hall of BLTP JINR
Parallel Session

Polarization phenomena and spin physics

Chairman V. Ladygin

15.00 ***Piyadin S.*** (JINR)
First Results on the Study of dp -> ppn Reaction
at Internal Target Station at Nuclotron

15.20 ***Ladygina N.*** (JINR)
Study of the dp-Elastic Scattering at Relativistic Energies

15.40 ***Salmina E.*** (JINR)
Longitudinal Polarization of the Lambda and Antilambda Hyperons
in DIS at COMPASS (2003-2004)

16.00 ***Krasnov V.*** (JINR)
Polarization Effects in Charge Pion Production
at the NUCLOTRON Internal Target

16.20 ***Lomov V.*** (Russia)
Generalized Dynamics of Rarita-Schwinger Field

16.40 ***Silenko A.*** (Belarus)
Spin-tensor Effects at Channeling and a Potential
for Measuring Quadrupole Moments of Unstable Nuclei

Coffee break 17.00 – 17.30

Hadron spectroscopy

Chairman V. Karmanov

17.30 ***Kaloshin A.*** (Russia)
Mixing of Fermion Fields of Opposite Parities and Baryon Resonances

17.50 ***Barabanov M.*** (JINR)
Application of High Quality Antiproton Beam with Momentum Ranging
from 1 GeV/c to 15 GeV/c to Study Charmonium and Exotics

18.10 ***Radzhabov A.*** (Russia)
Light-by-light Contribution of Scalar Mesons to (g-2) of the Muon

18.30 ***Kuraev E .*** (JINR)
Three jet production in peripherical $\bar{p}\ (p) - p$ collisions

18.50 ***Egorov O.*** (Russia)
Diffraction Dissosiation (DD) Phenomena
after Neutrino Nuclei Interactions and Cumulative Processes

19.10 ***Troyan A.*** (JINR)
Search for and Study of Low-Mass Scalar Mesons
in the Reaction $np \rightarrow np\pi^+\pi^-$ at the Impulse of Neutron Beam 3.83 GeV/c

19.30 End of the session

October 5, Tuesday
Blokhintsev Auditorium of BLTP JINR
Parallel Session

Applied use of relativistic beams

Chairman A. Baldin

15.00 ***Chilap V.*** (Russia)
Basic Principles of a New Scheme of Electronuclear Method of Energy Production and Transmutation of Long-Lived Radioactive Wastes of Nuclear Power Plants Based on Nuclear Relativistic Technologies

15.20 ***Bielewicz M.*** (Poland)
Measurement Relevant to High Energy Neutron Spectrum by Application Yttrium Detectors in the U/Pb-Assembly Using 4 GeV Deuteron Beam from JINR Nuclotron (Dubna)

15.40 ***Indrigh A.*** (JINR)
Reaction Rates in 237-Np Exposed to Spallation Neutrons in Pb Target and U-blanket System by Relativistic Deuterons of 4 GeV

16.00 ***Kilim S.*** (Poland)
A Method of Spallation Neutron Energy Spectrum Reconstruction with Yttrium Sample Activation

16.20 ***Slowinski B.*** (Poland)
Profiles and Fluctuations of Electromagnetic Cascades Produced by 100-3500 MeV Gamma Quanta in Heavy Amorphous Media

Coffee break 17.00 – 17.30

Chairman S. Tiutiunnikov

17.30 ***Wagner V.*** (Czech Republic)
Measurement of Neutron Field Produced Around Pb/U Setup Irradiated by Relativistic Light Ions

17.50 ***Pronskikh V.*** (JINR)
(n,xn) and (n,γ) Reaction Rates in Iodine-129 Exposed to Spallation Neutrons of GAMMA-3 Setup

18.10 ***Szuta M.*** (Poland)
Once Through Thorium Based Fuel Cycle Analysis of Acceleration Driven System for Energy Producction and Radioactive Waste Trasmutation-Impact on Economy Improvement

18.30 ***Safronova A.*** (Belarus)
Experimental Study of Neutron-Physical Characteristics of the U/Pb Assembly of Electronuclear Setup “Energy+Transmutation” under 1.6 and 4 GeV Deuterons Beam Irradiation

18.50 ***Patapenka A.*** (Belarus)
Method and Results of the ^{nat}Pb(d,f), ^{209}Bi(d,f) and ^{209}Bi(d,xnyp) Reaction Cross Sections Measurements at 1.6 and 4 GeV Deuterons Beam

19.10 End of the session

October 6, Wednesday
Conference Hall of BLTP JINR
Plenary Session

Hadron spectroscopy

Chairman O. Teryaev

9.00 ***Achasov N.*** (Russia)
Life of Light Scalar Mesons: past, present, future

9.30 ***Gerasimov S.*** (JINR)
Why Polarized Photonuclear Absorption Sum Rules Could be Interesting?

9.50 ***Efimov G.*** (JINR)
Bound states and Quantum Fielf Theory

10.20 ***Surovtsev Yu.*** (JINR)
The f_2- and ρ_3-Mesons from Analysisof Multi-Channel Pion-Pion Scattering

10.40 ***Uzikov Yu.*** (JINR)
Two Pion Production in the Reaction pd -> $pd\pi^+\pi^-$

Coffee break 11.00 – 11.30

Polarization phenomena and spin physics

Chairman A. Kovalenko

11.30 ***Tomasi-Gustafsson E.*** (France)
Opportunities for QCD Studies with Exclusive Processes Induced by Antiprotons

11.50 ***Teryaev O.*** (JINR)
New Manifestations of Axial Anomalies

12.30 ***Bystritskiy Yu.*** (JINR)
Bremsstrahlung and Pair Production Processes at Low Energies: Multidifferential Section and Polarization Phenomena

12.50 ***Ladygin V.*** (JINR)
Recent Results with Polarized Deuterons and Polarimetry at NUCLOTRON-NICA

13.10 ***Reznikov S.*** (JINR)
Deuteron Beam Polarimetry at NUCLOTRON-NICA

13.30 ***Sharov V.*** (JINR)
Measurement of Spin-dependent np Observables Using High Intensity Polarized Deuteron Beams at the Nuclotron-M

Break 13.50 – 15.00

October 6, Wednesday
Conference Hall of BLTP JINR
Plenary Session

Polarization phenomena and spin physics

Chairman N. Piskunov

15.00 ***Annand J.*** (UK)
Recoil Neutron Polarimetry at High Momenta

15.20 ***Kunne F.*** (France)
Overview of Experimental Results on Nucleon Spin Structure from COMPASS

16.00 ***Glagolev V.*** (JINR)
Differential Cross Section and Vector Analyzing Power
in d-p Elastic Scattering at 2.0 GeV

16.20 ***Gurchin Yu.*** (JINR)
Study of dp-elastic scattering with internal and extracted Nuclotron beams

Coffee break 16.40 – 17.10

Structure functions of hadrons and nuclei

Chairman P. Zaribin

17.10 ***Nedorezov V.*** (Russia)
New GRAAL Data on Nucleon Photoabsorption
in the Nucleon Resonance Energy Region

17.40 ***Tomio L.*** (Brazil)
The Nucleon Structure Function in a Statistical Quark Model

18.10 ***Kotikov A.*** (JINR)
Small-x Behavior of the Structure Function F^{c}_{2}

18.40 ***Gamzova E.*** (Russia)
The Electromagnetic Structure of Composite Systems
at the Large Momentum Transfer

19.00 ***Kudinov M.*** (Russia)
The Relativistic Electromagnetic Structure of the Nucleon

19.20 End of the session

October 7, Thursday
Conference Hall of BLTP JINR
Parallel Session

Relativistic heavy ion collisions

Chairman G. Feofilov

9.00 ***Fadeev N.*** (JINR)
Asymptotic Freedom in Mechanics of Hadron Collisions at High Energies

9.20 ***Krutenkova A.*** (Russia)
Cumulative to Evaporation Ratio in ^{12}C Fragmentation

9.40 ***Vasiliev T.*** (JINR)
High Pt Pion Spectra and Dihadron Correlations at CBM@SIS100

10.00 ***Krylov A.*** (Russia)
Violation of Unitarity of the tree Approximation
to the Glauber AA-Scattering Amplitude

10.20 ***Mikhailov K.*** (Russia)
Femtoscopy Application of the New EPOS Model to the STAR Experiment

10.40 ***Lyuboshitz V.*** (JINR)
Possible Effect of Mixed Phase and Deconfinement upon Spin Correlations in the $(\Lambda\,\overline{\Lambda})$ Pairs Generated in Relativistic Heavy-Ion Collisions

Coffee break 11.00 – 11.30

Chairman V. Toneev

11.30 ***Musulmanbekov G.*** (JINR)
On Hypernuclear State in High Energy Heavy Ion Collisions

12.00 ***Radchenko N.*** (Russia)
Nucleus-Nucleus Collisions at Low Energies.
The Effects from non Vacuum Exchange

12.20 ***Baldina El.*** (Russia)
Relativistic Description of Particle Production
and Acceleration by Ion and Laser Beams

12.40 ***Rogachevsky O.*** (JINR)
The Fractal Dimension Estimations
for the Events of Au(Pb)+Emu Interactions

13.20 ***Litvinenko A.*** (JINR)
The Centrality Determination for the NICA/MPD

13.40 ***Bubelev En.*** (JINR)
On the Physical Improbability of the Nuclei Mutual Longitudinal Compression in Collisions at High and Moreover Super High Energies

Break 14.00 – 15.00

October 7, Thursday
Blokhintsev Auditorium of BLTP JINR
Parallel Session

Quantum Chromodynamics at the Large Distances

Chairman St. Gmuca

9.00 ***Kobushkin A.*** (Ukraine)
Two-photon exchange in electron deuteron scattering

9.20 ***Galilo B.*** (JINR)
Weyl group, CP and the kink-like field configurations in the effective SU(3) gauge theory

9.40 ***Koryakin V.*** (Russia)
To the Question on the Theory of Magnetic Charges and Quantum Chromodynamics at Large Distances

10.10 ***Amalsky G.*** (Russia)
Explanation of Empirical Ratios $\sigma_{tot} \approx 5\sigma_{el}$ and $\sigma_{tot} \approx \sigma^0_{tot} (\sqrt{s}/\sqrt{s_0})^{1/5}$ of N-N Cross-Sections at Energies $\sqrt{s} = 5 - 10^4$ GeV and $\sqrt{s} > \sqrt{s_0}$, $\sqrt{s_0} \sim 70$ GeV

10.40 ***Pestov I.*** (JINR)
Mathematical Principles Unifying General Relativity and Quantum Mechanics

Coffee break 11.00 – 11.30

Studies of exotic nuclei in relativistic beams

Chairman V. Nedorezov

11.30 ***Krivenkov D.*** (JINR)
Peripheral Dissociation of Relativistic ^{9}C Nuclei in Nuclear Track Emulsion

11.50 ***Afanasiev S.*** (JINR)
Search Results for Eta-Mesic Nuclei in the d + C Reaction in JINR

12.10 ***Gmuca St.*** (Slovakia)
Density Dependent Couplings in RMF Approach

12.30 ***L'vov A.*** (Russia)
Search for Eta-Mesic Nuclei at the LPI Synchrotron

12.50 ***Majling L.*** (Czech Republic)
Delayed Clusters Accompanying Non-Mesonic Weak Decay of the Hypernuclei. One- and Two-Nucleon Induced Processes

13.20 ***Rossiyskaya N.*** (JINR)
Formation of Heavy Hyperons and Antihyperons in DIS at the COMPASS Experiment

Break 13.40 – 15.00

October 7, Thursday
Conference Hall of BLTP JINR
Plenary Session

Quantum Chromodynamics at the Large Distances

Chairman A. Shebeko

15.00 ***Makhaldiani N.*** (JINR)
Renormdynamics, Multiparticle Production, Negative Binomial Distribution and Riemann Zeta Function

15.30 ***Kochelev N.*** (JINR)
Soft Pomeron Structure and Chromomagnetic Quark-Gluon Interaction

16.00 ***Bogolubsky I.*** (JINR)
Gluon lumps revisited ?

16.20 ***Ganbold G.*** (JINR)
Infrared Behavior of QCD Running Coupling

Coffee break 16.40 – 17.10

Chairman A. Sorin

17.10 ***Kosmachev O.*** (JINR)
Universal Constituents for Description of a Structure Both the Leptons and Hadrons

17.30 ***Machavariani A.*** (JINR)
Two Body and three Body Field Theoretical Equations with and Without Quark Degrees of Freedom

17.50 End of the session

19.00 Concert (Dubna Music School)

October 8, Friday
Conference Hall of BLTP JINR
Plenary Session

Quantum Chromodynamics at the Large Distances

Chairman Br. Slowinski

9.00 ***Shebeko A.*** (Ukraine)
Relativistic Interaction for Meson-Nucleon Systems in the Clothed-Particle Representation

9.25 ***Nikolaev N.*** (Germany)
QCD Unitarily Cutting Rules for Nuclear Collisions

9.50 ***Savin I.*** (JINR)
Azimutal assymmetries in hadron production
from longitudinal polarization target

10.20 ***Smolyansky S.*** (Russia)
Role of Vacuum Polarization in the Annihilation Channel at the Presence of a Strong Laser Field

10.40 ***Pervushin V.*** (JINR)
Universe as a Higgs Boson Factory

Coffee break 11.00 – 11.30

Progress in experimental studies at the high energy accelerators

Chairman V. Kekelidze

11.30 ***Abraamyan Kh.*** (JINR)
Resonance Structure in the $\gamma\gamma$ and $\pi^0\,\pi^0$ Systems

12.00 ***Suleimanov M.*** (JINR)
Search for a Signal on Phase Transition
of Strongly Interacting Matter applying the random matrix approach

12.20 ***Dryablov D.*** (JINR)
Identification of Xe Bunch at the JINR NUCLOTRON-M Accelerator by the Track Length Measurement Method

12.40 ***Kurilkin A.*** (JINR)
Single and Double Pion Production
in the np-Collisions at 1.25 GeV with HADES

13.00 ***Kurilkin P.*** (JINR)
Cross Section for dp-Elastic Scattering at 1.25 GeV/u

Break 13.20 – 15.00

October 8, Friday
Conference Hall of BLTP JINR
Plenary Session

Progress in experimental studies at the high energy accelerators

Chairman S. Vokal

15.00 ***Feofilov G.*** (Russia)
Onset of ridge phenomena in AA and pp collisions and
percolation string model
15.20 ***Maggiora M.*** (Italy)
Transverse Parton Distribution Functions in Drell-Yan Processes at FAIR
15.40 ***Kovalenko A.*** (JINR)
First Results on the SPS Beam Collimation with Bent Crystals

Coffee break 16.10 – 16.40

Relativistic Heavy Ion Collisions.
Cumulative processes

Chairman A. Vodopyanov

16.40 ***Shimanskiy S.*** (JINR)
Study of the Cold Dense Baryonic Matter
with Nonpolarized and Polarized Beams
17.20 ***Titov A.*** (JINR)
Cumulative effects in strong electromagnetic fields
17.40 ***Stavinskiy A.*** (Russia)
Dense Cold Matter Study with special trigger
at TWA, Nuclotron, NICA and FAIR
18.00 ***Sharkov G.*** (Russia)
FLINT Experimental Data on Dense Gold Matter Search with Special Trigger

18.40 End of session

19.00 **Banquet (Scientists' Club)**

October 9, Saturday
Conference Hall of BLTP JINR
Plenary Session

Accelerator facilities: status and perspectives.
Progress in experimental studies at the high energy accelerators

Chairman E. Tomasi-Gustafsson

9.00 ***Zarubin P.*** (JINR)
Clustering in Dissociation of Relativistic ^{9}Be, ^{9}C, ^{10}C, and ^{12}N nuclei

9.40 ***Zelenski A.*** (USA)
Polarized Proton Beams in RHIC

10.20 ***Vodopyanov A.*** (JINR)
Status of the LHC

10.50 ***Rukoyatkin P.*** (JINR)
External beams at the Nuclotron facility: status and nearest tasks

11.10 ***Kovalenko A.*** (JINR)
Nuclotron-M: Status and Perspectives

Break 11.30 – 11.40

Chairman V. Burov

11.40 ***Malakhov A.*** (JINR)
Proton-Ion Complex “PROTION”

12.00 ***Akulinichev S.*** (Russia)
Novel Accelerator Technologies for Radiation Therapy

12.40 ***Krasavin E.*** (JINR)
Biological Effect of Accelerated Heavy Ions

13.20 ***Burov V., Malakhov A.*** (JINR)
Closing

13.30 **Coffee**