Plenary Talks

Monday, April 11

10.00-11.00 **A.Gurevich**
(Lebedev Inst., Moscow)
Large-scale structure of the Universe. Analytical theory and numerical simulation

Tuesday, April 12

9.00-9.40 **T.M.Rice**
(Swiss Federal Inst. of Technology, Zurich)
Resonant valence bond theory and its application to high temperature superconducductors

9.40-10.20 **I.Dremin**
(Lebedev Inst., Moscow)
A.Kaidalov
(ITEP, Moscow)
Quantum chromodynamics and phenomenology of strong interactions

10.20-11.00 **Yu.Parijskij**
(Special Astrophysical Observatory, N.Arkhyz)
Sakharov oscillations: theory and observations

Wednesday, April 13

9.40-10.20 **M.Vysotsky**
(ITEP, Moscow)
Electroweak Interactions

10.20-11.00 **V.Mukhanov**
(Univ. of Muenchen)
How robust are the predictions of inflation?

Thursday, April 14

9.00-9.40 **N.Krasnikov**
(Inst. for Nuclear Research, Moscow)
V.Matveev
(Inst. for Nuclear Research, Moscow)
Search for new physics at large hadron collider

9.40-10.20 **A.Slavnov**
(Steklov Inst., Moscow)
Noncommutative field theories in high energy physics

10.20-11.00 **I.Sokolov**
(Humboldt Univ., Berlin)
Anomalous diffusion and fractional diffusion equations

Friday, April 15

9.00-9.40 **A.Pruisken**
(Univ. of Amsterdam)
Quantum criticality and super universality in the quantum Hall regime

9.40-10.20 **J.Maldacena**
(Inst. for Advanced Study, Princeton)
QCD, strings and black holes: the large N limit of field theories and gravity

10.20-11.00 **M.Staudacher**
(Max Planck Inst. for Gravitational Phys., Golm)
Integrable quantum spin chains and the gauge/string correspondence

Saturday, April 16

11.30-12.10 **W.Unruh**
(Univ. of British Columbia, Vancouver)
Dumb holes and the origin of black hole thermal radiation

12.10-12.50 **L.Randall**
(Harvard Univ.)
Relaxing to three dimensions of space

Sectional Talks

Astrophysics

Monday, April 11

11.30-12.10 **A.Fridman**
(Inst. of Astronomy, Moscow)
Experimental and observational detection of over-reflection instability on the rotating shallow water
and in astrophysical disks

12.10-12.50 **I.Novikov**
(Niels Bohr Inst., Kopenhagen & Astro Space Center, Lebedev Inst., Moscow)
The internal structure of black hole

12.50-13.30 **A.Zasov**
(Sternberg Astronomical Inst., Moscow)
Dark mass in disky galaxies: a problem of estimation

15.00-15.30 **E.Vasiliev**
(Lebedev Inst., Moscow)
Dark matter absorption by a supermassive black hole at the Galactic center: role of boundary conditions

15.30-16.00 **V.Dokuchaev**
(Inst. for Nuclear Research, Moscow)
Phantom energy accretion onto black hole

16.00-16.30 **O.Tsupko**
(Space Research Inst., Moscow)
Approximate dynamics of dark matter ellipsoid in large-scale structure formation of the Universe

Tuesday, April 12

11.30-12.10 **A.Doroshkevich**
(Astro Space Center, Lebedev Inst., Moscow)
Statistical characteristics of observed Ly-alpha forest and the shape of initial power spectrum

12.10-12.50 **V.Lukash**
(Astro Space Center, Lebedev Inst., Moscow)
Puzzles and problems of standard cosmological model

12.50-13.30 **D.Kazakov**
(JINR, Dubna)
First evidence for Galactic gamma-rays from dark matter annihilation

Wednesday, April 13

11.30-12.10 **L.Zelenyi**
(Space Research Inst., Moscow)
Plasma processes in laminar and turbulent current sheets

12.10-12.50 **J.Truemper**
(Max Planck Inst. for Extraterrestrial Phys., Garching)
The equation of state at supernuclear densities - results of recent astronomical observations

12.50-13.30 **Yu.Gnedin**
(Pulkovo Observatory, St.Petersburg)
Magnetic fields of supermassive black holes: current status of the observations of quasars and active galactic nuclei

15.00-15.30 **B.Somov**
(Sternberg Astronomical Inst., Moscow)
Magnetic reconnection of solar flares: current state of the theory of S.I.Syrovatskii

15.30-16.00 **S.Bogovalov**
(Moscow Engin.Phys.Inst.)
Nature of the torus and jet-like features in the central parts of plerions

16.00-16.30 **V.Beskin**
(Lebedev Inst., Moscow)
Effective particle acceleration in the parabolic magnetic field

17.00-17.30 **D.Yakovlev**
(Ioffe Inst., St.Petersburg)
Nonequilibrium weak-interaction processes in neutron stars

17.30-18.00 **Yu.Shibanov**
(Ioffe Inst., St.Petersburg)
Optical observations of radio pulsars

18.00-18.30 **A.Timokhin**
(Sternberg Astronomical Inst., Moscow)
Could we see oscillations of the neutron star after the glitch in pulsar?

Thursday, April 14

11.30-12.10 **I.Toptygin**
(S.-Petersburg State Polytech.Univ.)
Magnetic fields, turbulence, and particle acceleration in supernova remnants

12.10-12.50 **V.Kocharovsky**
(Inst. of Applied Phys., N.Novgorod)
Converter acceleration of the highest-energy cosmic rays

12.50-13.30 **M.van Putten**
(Massachusetts Inst. of Tech., Cambridge)
Triplets: gravitational wave bursts in GRB-supernovae as sources for LIGO and Virgo

15.00-15.30 **F.Pegoraro**
(Univ. of Pisa)
Exploring high-energy physics with laser-driven proton beams

15.30-16.00 **V.Dogiel**
(Lebedev Inst., Moscow)
Particle acceleration by plasma waves in the interstellar and intracluster media (theory and observational effects)

16.00-16.30 **E.Waxman**
(Weizmann Inst., Rehovot)
Extra-galactic sources of high-energy neutrinos

17.00-17.30 **V.Chechetkin**
(Keldysh Inst. of Applied Math., Moscow)
Dynamics of supernova explosion

17.30-18.00 **K.Postnov**
(Sternberg Astronomical Inst., Moscow)
Cosmic gamma-ray bursts: do we observe the formation of black hole?

18.00-18.30 **M.Sazhin**
(Sternberg Astronomical Inst., Moscow)
Probing of the nature of double sources in vicinity of the CSL-1

Friday, April 15

11.30-12.10 **A.Cherepashchuk**
(Sternberg Astronomical Inst., Moscow)
Black hole demography

12.10-12.50 **I.Okamoto**
(Nat. Astronomical Observatory of Japan, Mitaka)
Electromagnetic extraction of energy from Kerr black hole

12.50-13.30 **A.Levinson**
(Tel Aviv Univ.)
Energy extraction from Kerr black hole: an ultimate power source in the Universe?

15.00-15.30 **V.Semenov**
(St.Petersburg Univ.)
String mechanism for relativistic jet formation

15.30-16.00 **A.Zakharov**
(ITEP, Moscow)
Measuring parameters of supermassive black holes

16.00-16.30 **Ya.Istomin**
(Lebedev Inst., Moscow)
Angular momentum of supermassive black hole

17.00-17.30 **V.Braginsky**
(Moscow State Univ.)
The development of methods of quantum measurements

17.30-18.00 **E.Churazov**
(Space Research Inst., Moscow)
Ultra deep INTEGRAL observations of the Galactic center

18.00-18.30 **K.Zybin**
(Lebedev Inst., Moscow)
The growth of giant black holes

Quantum Field Theory with External Conditions

Thursday, April 14

11.30-12.00 **N.Narozhny**
(Moscow Engin.Phys.Inst.)
Intense field QED

12.00-12.30 **S.Lebedev**
(Chuvash Univ., Cheboksary)
The charge moving in magnetic field in a proximity to the mirror: spectrum, life-times and transition probabilities

12.30-13.00 **A.Shabad**
(Lebedev Inst., Moscow)
Black-hole concept of apoint-like nucleus with supercritical charge

13.00-13.30 **A.Abriskosov, Jr.**
(ITEP, Moscow)
Electronic spectrum and tunnelling in coaxial nanotubes

15.00-15.30 **M.Bordag**
(Leipzig Univ.)
Spectrum of the gluon polarization operator in a chromomagnetic field

15.30-16.00 **V.Nesterenko**
(JINR, Dubna)
Spectral geometry and open systems

16.30-16.30 **V.Popov**
(ITEP, Moscow)
On Feynman method of disentangling of noncommuting operators

17.00-17.30 **V.Baier**
(Budker Inst. of Nuclear Phys., Novosibirsk)
Coherent and incoherent pair creation by a photon in oriented single crystal

17.30-18.00 **V.Skalozub**
(Dnepropetrovsk Univ.)
Signals of a heavy Z' gauge boson in the Bhabha scattering process

18.00-18.30 **V.Vanyashin**
(Dnepropetrovsk Univ.)
Axion emission by transverse plasma photons

Superstrings and Higher Spin Gauge Theory

Monday, April 11

11.30-12.00 **C.Hull**
(Imperial College, London)
Non geometric string backgrounds

12.00-12.30 **K.Stelle**
(Imperial College, London)
Stability of Horava-Witten spacetimes

12.30-13.00 **I.Arefeva**
(Steklov Inst., Moscow)
D-brane decay in superstring field theory and models of cosmological dark energy

13.00-13.30 **B.Pioline**
(LPTHE, Univ. of Paris)
Exact degeneracies of small black holes and the topological string amplitude

15.00-15.30 **A.Belavin**
(Landau Inst., Moscow)
Minimal Liouville gravity

15.30-16.00 **P.West**
(King's College London)
Symmetries of M theory

16.00-16.30 **F.Englert**
(Univ. Libre de Bruxelles)
Extended gravity and M-theories

Tuesday, April 12

11.30-12.00 **H.Kawai**
(Kyoto Univ.)
Diffeomorphism and local Lorentz invariance in matrix model

12.00-12.30 **R.Mkrtchyan**
(Yerevan Physics Inst.)
On a E11 hypothesis

12.30-13.00 **D.Sorokin**
(Kharkov Inst. for Theor.Physics & Padova Univ.)
Dirac on M-branes with fluxes

13.00-13.30 **G.Papadopoulos**
(King's College, Univ. of London)
The spinorial geometry of supersymmetric backgrounds

Wednesday, April 13

15.00-15.30 **V.Rychkov**
(Univ. of Amsterdam)
Free fermion droplets and the half-BPS sector of AdS/CFT

15.30-16.00 **O.Andreev**
(Humboldt-Univ., Berlin & Landau Inst., Moscow)
Regge behavior in gauge/string duality

16.00-16.30 **T.Matsuo**
(Inst. of Phys. and Chem. Research, Wako, Saitama)
String interpretation for finite N Yang-Mills theory in two-dimensions

17.00-17.30 **A.Sorin**
(JINR, Dubna)
Hamiltonian structures of fermionic two-dimensional Toda lattice hierarchies

17.30-18.00 **A.Losev**
(ITEP, Moscow)
Strings in the "infinite-metric" backgrounds

18.00-18.30 **I.Tipunin**
(Lebedev Inst., Moscow)
Verlinde formula in logarithmic conformal field theories and a modular group action in centers of quantum groups

Thursday, April 14

11.30-12.00 **P.Sundell**
(Uppsala Univ.)
On higher spins with a strong Sp(2,R) condition

12.00-12.30 **Yu.Zinoviev**
(IHEP, Protvino)
On dual formulations for massive tensor fields

12.30-13.00 **R.Manvelyan**
(Yerevan Physics Inst., & Tech.Univ. of Kaiserslautern)
The off-shell behaviour of propagators and the Goldstone field in higher spin gauge theory on AdS_{d+1} space

13.00-13.30 **M.Vasiliev**
(Lebedev Inst., Moscow)
Unfolded formulation of relativistic dynamical systems

15.00-15.30 **I.Bandos**
(Valencia Univ. & Kharkov Inst. of Physics and Technology)
On BPS preons, supergravity and higher spin theories

15.30-16.00 **X.Bekaert**
(IHES, Bures-sur-Yvette)
Higher spin gauge fields and tensorial space

16.00-16.30 **P.de Medeiros**
(Univ. of Michigan)
Non-associative gauge theory and higher spin interactions

17.00-17.30 **V.Krykhtin**
(Tomsk Polytech.Univ.)
BRST approach to Lagrangian construction for fermionic massless higher spin fields

17.30-18.00 **K.Alkalaev**
(Lebedev Inst., Moscow)
The frame-like formulation of AdS(d) mixed-symmetry fields

18.00-18.30 **O.Shaynkman**
(Lebedev Inst., Moscow)
Lagrangian formulation for free mixed-symmetry bosonic gauge fields in AdS(d)

Friday, April 15

11.30-12.00 **S.Gukov**
(Harvard Univ.)
Topological M-theory

12.00-12.30 **B.Julia**
(Ecole Normale Superieure, Paris)
Towards dual gravity

12.30-13.00 **P.Vanhove**
(CEA/Saclay)
Pure spinors and M-theory

13.00-13.30 **D.Galtsov**
(Moscow State Univ.)
D-instantons and Supergravity Domain Walls reexamined

15.00-15.30 **V.Dobrev**
(Inst. of Nuclear Research and Nuclear Energy, Sofia)
Characters of D=4 conformal supersymmetry

15.30-16.00 **A.Mironov**
(Lebedev Inst., Moscow)
Matrix integrals and loop equations: modern views

16.00-16.30 **L.Chekhov**
(Keldysh Inst. of Applied Math., Moscow)
AdS_3/CFT_2 on torus in the sum over geometries

17.00-17.30 **A.Galajinsky**
(Tomsk Polytechnic Univ.)
Witten-Dijkgraaf-Verlinde-Verlinde equation and N=4 superconformal Calogero model

17.30-18.00 **V.Ivashchuk**
(Center for Gravitation and Fundamental Metrology, Moscow)
On composite S-brane solutions

18.00-18.30 **A.Koshelev**
(Steklov Inst., Moscow)
Exactly solvable stringy inspired phantom model

Saturday, April 16

9.00-9.30 **Yu.Makeenko**
(ITEP, Moscow)
Cusped Wilson loops and the string/gauge correspondence

9.30-10.00 **M.Staudacher**
(Max Planck Inst. for Gravitational Phys., Golm)
The factorized S-Matrix of CFT/AdS

10.00-10.30 **A.Tseytlin**
(Ohio State Univ. & Imperial College, London)
On the spectrum of strings in $AdS_5 \times S^5$ and gauge theory - string theory duality

10.30-11.00 **J.Maldacena**
(Inst. for Advanced Study, Princeton)
Gravity duals of field theories with U(1) x U(1) symmetry

Quantum gravity and cosmology

Monday, April 11

11.30-12.00 **A.Starobinsky**
(Landau Inst., Moscow)
Primordial inhomogeneities in the Universe: the present status

12.00-12.30 **G.Venturi**
(Bologna Univ. & INFN, Bologna)
Improved WKB analysis of cosmological perturbations

12.30-13.00 **A.Kamenshchik**
(Univ. of Insubria, Como & Landau Inst., Moscow)
Tachyons, scalar fields, and cosmology

13.00-13.30 **M.Katanaev**
(Steklov Inst., Moscow)
Two-dimensional gravity: integrability and global solutions

15.00-15.30 **V.Frolov**
(Univ. of Alberta)
Black holes in a spacetime with large extra dimensions

15.30-16.00 **D.Fursaev**
(JINR, Dubna)
Gravitational field of a spinning radiation beam pulse in higher dimensions

16.00-16.30 **TBA**

Tuesday, April 12

Session dedicated to the memory of Bryce DeWitt

11.30-12.00 **A.Barvinsky**
(Lebedev Inst., Moscow)
The Gospel according to DeWitt revisited: quantum effective action in spacetimes with boundaries and braneworld gravity models

12.00-12.30 **R.Woodard**
(Univ. of Florida)
Stochastic formulation of inflationary quantum gravity

12.30-13.00 **W.Unruh**
(Univ. of British Columbia, Vancouver)
Measurement and quantum gravity

13.00-13.30 **V.Mukhanov**
(Univ. of Muenchen)
B.DeWitt on interpretation of quantum mechanics

Wednesday, April 13

11.30-12.00 **V.Rubakov**
(Inst. for Nuclear Research, Moscow)
Lorentz-violation and generation of perturbations at inflation

12.00-12.30 **S.Dubovsky**
(CERN, Geneva & Inst. for Nuclear Research, Moscow)
Lorentz-violating massive gravity

12.30-13.00 **C.Deffayet**
(Inst. of Astrophysics, Paris)
Cosmology and cosmological vDVZ (dis)continuity of brane-induced gravity

13.00-13.30 **S.Sibiryakov**
(Inst. for Nuclear Research, Moscow)
Ultra-large distance modification of gravity from Lorentz symmetry breaking at the Plank scale

15.00-15.30 **D.Langlois**
(Inst. of Astrophysics, Paris)
Gravitation and cosmology in brane-worlds

15.30-16.00 **A.Filippov**
(JINR, Dubna)
Dimensional reduction of supergravities producing black holes and cosmologies

16.00-16.30 **B.Altshuler**
(Lebedev Inst., Moscow)
Calculation of large mass hierarchy from number of extra dimensions

17.00-17.30 **A.Nikishov**
(Lebedev Inst., Moscow)
Problems in field theoretical approach to gravitation

17.30-18.00 **B.Meierovich**
(Kapitza Inst., Moscow)
Gravitating global topological defects in extra dimensions

18.00-18.30 **TBA**

Friday, April 15

11.30-12.00 **A.Albrecht**
(Univ. of California, Davis)
Theories of cosmic initial conditions

12.00-12.30 **F.Finelli**
(Inst. of Space Astrophysics & Cosmic Physics, Bologna)
Recent results on the generation of quantum fluctuations during Inflation

12.30-13.00 **T.Hertog**
(Univ. of California, Santa Barbara)
Holographic cosmology

13.00-13.30 **A.Toporensky**
(Sternberg Astronomical Inst., Moscow)
DeSitter stability in string gravity with higher order curvature corrections

15.00-15.30 **I.Khriplovich**
(Budker Inst. of Nuclear Phys., Novosibirsk)
Quantized black holes. Horizon and mass spectrum, radiation intensity

15.30-16.00 **S.Solodukhin**
(Univ. of Muenchen)
Relaxation and unitarity in three-dimensional black hole

16.00-16.30 **V.Berezin**
(Inst. for Nuclear Research, Moscow)
Black hole thermodynamics without a black hole?

Quantum Field Theory

Monday, April 11

15.00-15.30 **D.Nesterov**
(Lebedev Inst., Moscow)
Late-time asymptotics of the heat kernel and new nonlocal effective action

15.30-16.00 **K.Ohashi**
(Tokyo Inst. of Technology)
Solitons in the Higgs phase and their moduli spaces

16.00-16.30 **K.Konishi**
(Univ. of Pisa)
Nonabelian monopoles via monopole-vortex systems

Wednesday, April 13

11.30-12.00 **Tureanu A.**
(Helsinki Univ. & Helsinki Inst. of Phys.)
Noncommutative quantum field theories: new space-time symmetry and exact results

12.00-12.30 **M.Olshanetsky**
(ITEP, Moscow)
Sklyanin algebra from topological field theory

12.30-13.00 **P.Lavrov**
(Tomsk Pedag.Univ.)
Fedosov supermanifolds

13.00-13.30 **B.Zupnik**
(JINR, Dubna)
Nonanticommutative deformations of hypermultiplets

Friday, April 15

11.30-12.00 **S.Konstein**
(Lebedev Inst., Moscow)
Cohomologies and deformations of Poisson superalgebras

12.00-12.30 **M.Grigoriev**
(Lebedev Inst., Moscow)
Consistent reductions of gauge theories

12.30-13.00 **M.Volkov**
(Univ. of Tours)
Resonant excitations of the 't Hooft-Polyakov monopole

13.00-13.30 **S.Lyakhovich**
(Tomsk Univ.)
BRST quantization without Lagrangian and Hamiltonian

15.00-15.30 **A.Sharapov**
(Tomsk Univ.)
Global invariants of gauge systems

15.30-16.00 **I.Volovich**
(Steklov Inst.,Moscow)
Disentanglement in quantum field theory and Bell's experiments

16.00-16.30 **V.Manko**
(Lebedev Inst., Moscow)
Entanglement and tomographic entropy of quantum states in probability representation of quantum mechanics

17.00-17.30 **V.Zhotikov**
(Moscow Inst. of Physics and Technology)
Relativistic invariance and existence of fundamental length

17.30-18.00 **V.Neznamov**
(NRIEP, Sarov)
Standard model in Foldy-Wouthuysen representation

18.00-18.30 **TBA**

Strongly Correlated Electrons, Quantum Liquids and Quantum Coherence

Monday, April 11

11.30-12.00 **Kravtsov V.**
(ICTP, Trieste)
Role of interaction on dynamic localization in a quantum dot

12.00-12.30 **A.Zaikin**
(Lebedev Inst., Moscow & Forschungszentrum, Karlsruhe)
Electron transport, fluctuations and electron-electron interactions in mesoscopic conductors

12.30-13.00 **M.Mensky**
(Lebedev Inst., Moscow)
Dissipation of quantum systems in a model-independent approach

13.00-13.30 **A.Ivanov**
(Cardiff Univ.)
Bipolariton eigenstates for a coherent excitonic molecule

15.00-15.30 **Y.Avishai**
(Ben-Gurion Univ.)
Keldysh treatment of a spin-boson Hamiltonian at large *S*

15.30-16.00 **A.Finkelstein**
(Weizmann Inst., Rehovot)
Spintronics without magnets: spin-optics

16.00-16.30 **Kikoin K.**
(Ben-Gurion Univ.)
Dynamical symmetries in nanophysics

Tuesday, April 12

11.30-12.00 **M.Kulic**
(Univ. of Frankfurt)
Forward scattering peak in the electron-phonon interaction of high-temperature-superconductors

12.00-12.30 **M.Sadovskii**
(Inst. of Electrophysics, Ekaterinburg)
Pseudogaps in strongly correlated metals

12.30-13.00 **E.Maksimov**
(Lebedev Inst., Moscow)
Optical sum rules in the normal and superconducting states of metals

13.00-13.30 **K.Efetov**
(Ruhr-Univ. Bochum)
Exotic properties of superconductor-ferromagnet structures

Wednesday, April 13

11.30-12.00 **P.Fulde**
(Max Planck Inst. for the Phys. of Complex Systems, Dresden)
Fractional charges in frustrated lattices

12.00-12.30 **M.Feigelman**
(Landau Inst., Moscow)
Theory of superconductive pairing near the mobility edge

12.30-13.00 **A.Tsvelik**
(Brookhaven National Lab.)
Between one and higher dimensions: doped spin ladders

13.00-13.30 **L.Glazman**
(Univ. of Minnesota)
Coulomb drag between quantum wires: beyond Tomonaga-Luttinger model

Thursday, April 14

15.00-15.30 **P.Woelfle**
(Univ. of Karlsruhe)
Nonequilibrium electron transport through quantum dots in the Kondo regime

15.30-16.00 **Yu.Lozovik**
(Spectroscopy Inst., Troitsk)
Strongly correlated phases and coherent phenomena in electron and electron-hole systems in nanostructures

16.00-16.30 **M.Kagan**
(Kapitza Inst., Moscow)
Composite fermions, trios and quarters in Fermi-Bose mixture

17.00-17.30 **S.Brazovski**
(Univ. Paris-Sud)
Topological excitations of correlated electronic states

17.30-18.00 **P.Arseev**
(Lebedev Inst., Moscow)
Effects of electron-phonon interaction in tunneling processes in nanostructures

18.00-18.30 **TBA**

Friday, April 15

11.30-12.00 **D.Vollhardt**
(Univ. of Augsburg)
Theory of strongly correlated electron systems: from simple models to real materials

12.00-12.30 **I.Nekrasov**
(Inst. of Metal Physics, Ekaterinburg)
Full orbital calculation scheme for materials with strongly correlated electrons

12.30-13.00 **S.Savrasov**
(New Jersey Inst. of Technology)
Plutonium as strongly correlated metal

13.00-13.30 **S.Ovchinnikov**
(Inst. of Physics, Krasnoyarsk)
Electronic structure and electron-phonon interaction in copper oxides in the regime of strong electron correlations

High-Energy Physics

Tuesday, April 12

11.30-12.10 **D.Shirkov**
(JINR, Dubna)
Non-power functional expansions for QCD observables at low energies

12.10-12.50 **B.Ioffe**
(ITEP, Moscow)
The modern status of QCD low energy parameters

12.50-13.30 **Yu.Simonov**
(ITEP, Moscow)
New results in the dynamics of confinement and deconfinement

Wednesday, April 13

11.30-12.00 **L.Okun**
(ITEP, Moscow)
Formula $E = mc^2$ in the World Year of Physics

12.00-12.30 **A.Studenikin**
(Moscow State Univ.)
Neutrino quantum states and spin light in matter

12.30-13.00 **V.Novikov**
(ITEP, Moscow)
K\bar K binary system in Quantum Mechanics and in Quantum Field Theory: CPT

13.00-13.30 **G.Ovanesyan**
(Moscow Inst. of Physics and Technology)
Hunting for the alpha: $B\to\rho\rho$, $B\to\pi\pi$, $B\to\rho\pi$

15.00-15.30 **A.Sissakian**
(JINR, Dubna)
Reduced phase space of quantum system: example of Coulomb potential

15.30-16.00 **M.Polikarpov**
(ITEP, Moscow)
Confining fields in lattice QCD

16.00-16.30 **V.Zakharov**
(Max Planck Inst. for Physics, Muenchen)
Anderson localization in pure Yang-Mills theories

17.00-17.30 **I.Royzen**
(Lebedev Inst., Moscow)
Phase states of sub-hadronic matter and microscopic pattern of its hadrinization

17.30-18.00 **I.Lokhtin**
(Skobeltsyn Inst. of Nuclear Phys., Moscow)
Jet physics in ultrarelativistic heavy ion collisions

18.00-18.30 **V.Kokoulina**
(JINR, Dubna)
Multiparticle dynamics study by Gluon Dominance Model

Thursday, April 14

11.30-12.00 **A.Kaidalov**
(ITEP, Moscow)
Double diffractive processes - from hadrons to Higgs

12.00-12.30 **B.Ioffe**
(ITEP, Moscow)
The pentaquark - an enigma in QCD

12.30-13.00 **A.Likhoded**
(IHEP, Protvino)
Power suppressed terms in inclusive heavy-light meson production

13.00-13.30 **K.Ter-Martirosyan**
(ITEP, Moscow)
Experimental neutrino masses, mixing angles for three generations, and the neutrino oscillations in models with gauge and left-right symmetries

15.00-15.30 **I.Dremin**
(Lebedev Inst., Moscow)
Soft and hard processes in QCD

15.30-16.00 **V.Shevchenko**
(ITEP, Moscow)
Casimir effect with more than one scale

16.00-16.30 **A.Leonidov**
(Lebedev Inst., Moscow)
Color glass condensate: a new paradigm for high energy QCD

Dissipative Structures in Nonlinear Dynamics

Wednesday, April 13

15.00-15.30 **S.Kuznetsov**
(Inst. of RadioEngineering and Elecronics, Saratov)
Renormalization group approach in nonlinear dynamics - a tool for analysis of transitions to chaos

15.30-16.00 **F.Ataullakhanov**
(Moscow State Univ.)
New self-organization patterns in models of active media: a model of blood clotting as an example

16.00-16.30 **A.Panfilov**
(Utrecht Univ.)
Modelling in electrphysiology using anatomically accurate models of the heart

17.00-17.30 **A.Polezhaev**
(Lebedev Inst., Moscow)
Spatio-temporal patterns, driven by the flow instability

17.30-18.00 **E.Volkov**
(Lebedev Inst., Moscow)
Frequency-selective weak signal acceptance by homogeneous array of coupled relaxation oscillators

18.00-18.30 **D.Sokoloff**
(Moscow Univ.)
Intermittency in dynamo and Jacobi equations

Thursday, April 14

11.30-12.00 **A.Deutsch**
(Tech. Univ., Dresden)
Cellular automaton modelling of biological pattern formation

12.00-12.30 **F.Sagues**
(Univ. of Barselona)
Deterministic vs. stochastic control of 3D excitation waves

12.30-13.00 **V.Davydov**
(Moscow Inst. of RadioEngineering, Electronics & Automatics)
Autowaves on curved surfaces: theory, simulations, experiments

13.00-13.30 **V.Zykov**
(Tech.Univ., Berlin)
Feedback-mediated drift of spiral waves as an interference pattern