XVIIIth International Workshop
on High Energy Physics and Quantum Field Theory

17 - 23 June 2004

SCIENTIFIC

PROGRAM

TIME TABLE:

08.45 Breakfast

09.30 Sessions

14.00 Lunch

16.00 Sessions

19.00 Dinner

WELCOME PARTY: *June 17, at 19.00 hrs.*

EXCURSION: *June 20.*

WORKSHOP DINNER: *June 22, at 20.00 hrs.*

June 17

Plenary Session

09.20 **Opening**
09.30 **Andre Sopczak** (Lancaster University and CERN)
Higgs physics: from LEP to a linear collider
10.20 **Sergey Levonian** (DESY)
Recent results from the H1 experiment at HERA

11.10 **Coffee break**

11.30 **Kerstin Jon-And** (Stockholm University)
ATLAS: status of the detector and physics prospects
12.20 **Jorge Alfaro** (Pontificia Universidad de Chile)
Loop quantum gravity and high energy cosmic rays

Parallel Session A

16.00 **Mikhail Braun** (St.Petersburg State University)
Colour strings vs. Perturbative QCD Pomeron
16.20 **Aleksey Alekseev** (IHEP, Protvino)
Model of nonperturbative running coupling in QCD
16.40 **Alexander Krutov** (Samara State University)
Asymptotics of the electromagnetic deuteron form factors
17.00 **Igor Cherednikov** (JINR, Dubna)
Instanton effects in high-energy quark-quark scattering: the world-line approach
17.20 **Sergey Baranov** (LPI RAS, Moscow)
Testing the kt-factorization approach with P-wave quarkonia production
17.40 **Armen Oganesian** (ITEP, Moscow)
Exotic baryon states in QCD sum rule

Parallel Session B

16.00 **Michele Rosin** (DESY)
Multiplicity distributions in DIS at HERA
16.20 **Benedikt Zihlmann** (DESY)
The spin structure of the Nucleon as seen by HEMRES
16.40 **Vsevolod Popov** (SINP MSU, Moscow)
Status and results of SVD-2 experiment
17.00 **Alexei Kubarovsky** (SINP MSU, Moscow)
Observation of narrow baryon resonance decaying into pK0s in SVD-2 experiment.
17.20 **Andrey Elagin** (JINR, Dubna)
Radiative Bhabha scattering at low angles at TESLA.
17.40 **Grigori Feofilov** (St.Peterburg State University)
Parton string model analysis of strange particles yields
and slopes for PbPb collisions at 158A*GeV in NA57 experiment
18.00 **Ziad Ajaltouni** (Laboratoire de Physique Corpusculaire, Paris)
Search for direct CP violation in B decays with rho0-omega mixing
at CERN SPS. (30min)

June 18

Plenary Session

09.30 **Roberto Spighi** (INFN, Bologna)
Recent results from the HERA-B

10.20 **Lev Dudko** (SINP MSU, Moscow)
Single Top quark search at hadron colliders

11.10 **Coffee break**

11.30 **Alexei Raspereza** (DESY)
Physics at future linear e^+e^- collider.

12.20 **Ilya Ginzburg** (Sobolev Institute of Mathematics, Novosibirsk)
Symmetries in 2HDM, CP violation and heavy Higgs effects at future colliders

Parallel Session A

16.00 **Tsuno Soushi** (Okayama University)
Introduction of GR@PPA event generator and recent development of GRACE system

16.20 **Alexander Kryukov** (SINP MSU, Moscow)
CompHEP: Present and Future

16.40 **Lev Dudko** (SINP MSU, Moscow)
Monte-Carlo Events Data Base for hadron colliders

17.00 **Valeriy Serbo** (Novosibirsk State University)
New method for calculating helicity amplitudes of jet-like QED
processes for high–energy colliders

17.20 **Victor Andreev** (Gomel State University)
Recursive technique for evaluation of Feynman diagrams

17.40 **Edward Timoshenko** (University College of Dublin)
Shapes of amphiphilic co-dendrimers by Monte Carlo simulation

Parallel Session B

16.00 **Dmitry Slavnov** (Moscow State University)
Local reality in quantum theory

16.20 **Alexander Biryukov** (Samara State University)
Probabilities of quantum transitions for the composite systems interacting
with alternate field in the higher orders of perturbation theory

16.40 **Elena Vorontsova** (Tver State University)
On Newtonian limit in dilaton gravity.

17.00 **Avetis Sadoyan** (Yerevan State University)
Should it be possible to reconstruct the equation of state
from gravitational radiation of single sources?

17.20 **Victor Tsvetkov** (Tver State University)
Mathematical modeling of the rapidly rotating gravitating superdense
neutron configurations.

June 19

No Plenary Session

Parallel Session A

15.30 **Bruce Mellado** (University of Wisconsin and CERN)
Prospects of Higgs searches at the LHC

16.00 **Jan Kalinowski** (Warsaw University)
Large mixing in the CP violating Higgs sector

16.20 **Maria Krawczyk** (Warsaw University)
CP violating in 2HDM

16.40 **Roman Nevzorov** (ITEP, Moscow)
Soft breaking of the PQ-symmetry and renormalization group flow in the NMSSM

17.00 **Mikhail Dubinin** (SINP MSU, Moscow)
Higgs boson in the two-doublet models with CP violation.

17.20 **Elza Akhmetzyanova** (Samara State University)
Effective two-Higgs-doublet potential and radiative corrections
to the Higgs bosons masses in the MSSM.

17.40. **Ilya Smirnov** (Samara State University)
Rare decays in the MSSM with CP violation.

18.00 **Yuri Philippov** (Samara State University)
The decay H->hh in the MSSM. Complete one-loop analysis.

Parallel Session B

15.30 **Peter Senger** (GSI, Darmstadt)
Exploring the QCD phase diagram: nucleus-nucleus collisions at FAIR

15.50 **Konstantin Gridnev** (St.Petersburg State University)
Boson condensate in nuclei

16.10 **Yurii Tchuvilsky** (SINP MSU, Moscow)
Time reversal P-odd noninvariance in nuclear processees

16.30 **Irina Gnilozub** (SINP MSU, Moscow)
Clasification of the alpha particle states in nuclei

16.50 **Andrey Shirokov** (SINP MSU, Moscow)
Light nuclei and NN interaction obtained in J-matrix inverse scattering approach

17.10 **Arkady Safronov** (SINP MSU, Moscow)
The analytical approach to constructing effective nucleon-nucleon
ineraction operators at intermediate energies

17.30 **Dmitri Lanskoy** (SINP MSU, Moscow)
Baryonic mixing in double-strangeness p shell hypernuclei

17.50 **Tatiana Tretyakova** (JINR, Dubna)
Production of neutron-rich lambda-hypernuclei by double-charge-exchange reactions

18.10 **Valery Lyuboshitz** (JINR, Dubna)
On the Coulomb dissociation of relativistic nuclei and hypernuclei with small binding energies

June 21

Plenary Session

09.30 **Roberto Tenchini** (INFN, Pisa)
Status of the physics of the W and Z bosons
10.20 **Tsuno Soushi** (Okayama University)
Recent results from CDF

11.10 **Coffee break**

11.30 **Thomas Rijken** (University of Nijmegen)
Baryon-baryon interactions at intermediate energies
12.20 **Nikolai Uraltsev** (PNPI, Gatchina)
Heavy Quark Expansion in Beauty: Recent Successes and Problems

Parallel Session A

16.00 **Alexander Andrianov** (St.Petersburg State University)
Stringification of chiral dynamics: Wess-Zumino interaction
16.20 **Alexander Andrianov** (St.Petersburg State University)
Domain wall generation by gravity and fermions
16.40 **Yury Grats** (Moscow State University)
Conical defects in a brane world
17.00 **Mikhail Smolyakov** (SINP MSU, Moscow)
On the non-standard matter distribution in the Randall-Sundrum model
17.20 **Iskander Ziyatdinov** (MSU, Moscow)
Parquet approximation for matrix models

Parallel Session B

16.00 **Andrei Kataev** (INR RAS, Moscow)
Higgs decay to $b\bar{b}$ pair: QCD effects in the running and
on-shell parameterization at the N^3LO
16.20 **Mikhail Kalmykov** (JINR, Dubna)
About pole mass of t-quark within Sdandart Model
16.40 **Elena Scherbakova** (Samara State University)
One-loop corrections to radiative muon decay
17.00 **Vladimir Zykunov** (Gomel State Technical University)
Electroweak radiative corrections to parity violating asymmetry
for SLAC experiment E158

June 22

Parallel Session A

09.30 **Alessandro Ballestrero** (INFN, Torino)
Boson boson scattering at LHC
10.00 **Boris Arbuzov** (SINP MSU, Moscow)
Dynamical breaking of the Electroweak symmetry
10.30 **Sergei Demidov** (INR RAS, Moscow)
Search for Higgs boson and other neutral scalar particles
in association with high energy jet at LHC
10.50 **Slava Bunichev** (SINP MSU, Moscow)
MSSM Higgs bosons in the intense coupling regime at TESLA.

11.10 **Coffee break**

11.30 **Per Osland** (University of Bergen)
Graviton-induced Bremsstrahlung
11.50 **Alfonso Mondragon** (Universidad Nacional Autonoma de Mexico)
A minimal S_3-invariant extension of the Standard Model
12.10 **Kanji Fujii** (Hokkaido University)
Structures of expectation values of flavor neutrino charges in quantum field theory
12.30 **Eugene Rogalev** (JINR, Dubna)
Search for new heavy resonances at LHC
12.50 **Stanislav Alexeyev** (SAI MSU, Moscow)
Schwarzschild-Gauss-Bonnet black holes at the LHC: beyond the dimensionality of space
13.10 **Andrey Sapronov** (JINR, Dubna)
LHC discovery potentials for ADD scenario of extra dimensions

14.00 **Lunch**

16.00 **Gennaro Corcella** (CERN)
Bottom fragmentation in Top quark decay
16.20 **Olga Piskounova** (LPI RAS, Moscow)
Production and decay of charmed baryons at high energies.
16.40 **Nikolai Nikitin** (SINP MSU, Moscow)
Reinvestigation of the rare decay modes $B^0_{d,s} \to \ell^+\ell^-\gamma$ in SM.
17.00 **Danila Tlisov** (Moscow State University)
Rare leptonic B-meson decays at external electromagnetic fields.
17.20 **Dmitriy Vasin** (Samara State University)
Bc meson hadroproduction in the k_T-factorization approach
17.40 **Dmitry Guenter** (Samara State University)
Heavy quark fragmentation into baryon
18.00 **Victor Novozhilov** (St.Petersburg State University)
Color solitons
18.20 **Vladimir Vechernin** (St.Petersburg State University)
Multiplicity and p_t correlations in AA-interactions at high energies
18.40 **Ilya Ginzburg** (Sobolev Institute of Mathematics, Novosibirsk)
Ultraperipheral nuclear collisions. What can be studied there?

June 22

Parallel Session B

09.30 **Alexander Kaloshin** (Irkutsk State University)
The interacting Rarita-Schwinger field and its spin-parity content
09.50 **Alexander Silenko** (Institute of Nuclear Problems, Minsk)
Spinless particles in electromagnetic and gravitational fields
10.10 **Sergey Vernov** (SINP MSU, Moscow)
Construction of singlevalued and multivalued solutions for nonintegrable systems
10.30 **Margarita Chichikina** (Moscow State University)
Nonlinear QFT on the classical background

11.10 **Coffee break**

11.30 **Vladimir Vereshagin** (St.-Petersburg State University)
Renormalization prescriptions and bootstrap in effective theories
11.50 **Alexander Vereshagin** (University of Bergen)
Renormalization prescriptions in effective theory of pion-nucleon scattering.
12.10 **Kirill Semenov-Tian-Shansky** (St.-Petersburg State University)
Equivalence of all the systems of bootstrap equations for string-like amplitudes
12.30 **Olga Babourova** (Moscow State University)
Quark-gluon plasma as perfect spin fluid with a color charge in a color field
in Riemann-Cartan space
12.50 **Boris Ermolaev** (Ioffee PTI, St.-Petersburg)
Spin-dependent structure function y_1 at $x << 1$
14.00 **Lunch**

16.00 **Valeriy Serbo** (Novosibirsk State University)
Complete description of polarization effects in emission of a photon
by an electron in the field of a strong laser wave
16.20 **Michael Eides** (PNPI,Gatchina)
New three-loop corrections to Lamb shift and hyperfine
16.40 **Ilya Malakhov** (Moscow State University)
The numerical technique of Casimir energy calculation
17.00 **Irina Karas** (Kharkov Institute of Physics and Technology)
Charged particle accelaration by intense wake-field excited in plasmas
by either laser pulse or relativistic electorn bunch

June 23

Plenary Session

9.30 **Olivier Leroy** (CPPM, Marseille)
Status of LHCb experiment
10.20 **Thomas Hemmick** (SUNY at Stony Brook)
Results from RHIC
11.10 **Vladimir Kopeliovich** (INR RAS, Moscow)
Exotic baryon and multibaryon states (Pentaquarks etc)

12.00 **Closing**

Coffee and Beer

14.00 **Lunch**