

August 25 Session "Mathematics and nonlinear mechanics"

LNP Conference Hall, 2nd floor

Chair: H. Neidhardt

- 15:00 - 15:20 A. Khrennikov
Quantum mechanics as theory of classical random fields
- 15:20 - 15:40 B. Dragovich
Nonlinear nonlocal dynamics of p-adic strings
- 15:40 - 16:00 S. Kozyrev
2-adic parametrization of the genetic code
- 16:00 - 16:20 A. Biryukov
Markovain process for compatible states in classical quantum physics
- 16:20 - 16:40 A. Trushechkin
Irreversibility in the functional formulation of classical mechanics
- 16:40 - 17:00 P. Fiziev
Generalized Teukolsky-Starobinsky Identities
- 17:00 - 17:20 COFFEE BREAK
- 17:20 - 17:40 A. Sergeev
Quantization of universal Teichmüller space
- 17:40 - 18:00 V. Zharinov
The Green formula for the difference operators
- 18:00 - 18:20 G. Alekseev
Integrability of symmetry reduced bosonic dynamics, solitons and inverse monodromy transform in the low energy heterotic string effective theory
- 18:20 - 18:40 A. Koshelev
Cosmology with non-local scalar field
- 18:40 - 19:00 S. Vernov
The NEC violation and classical stability in the FRW and Bianchi I metrics
- 19:00 - 19:20 A. Pechen
Dynamics and control of open quantum systems
- 20:00 CONCERT

Chair: B. Dragovich

August 25, Tuesday

Session "Quantum field theory and theory of elementary particles" (QFT)

Conference Hall, 2nd floor

Chair: N. Achasov

15:00 - 15:20 N. Krasnikov
Unparticle as a field with continuously distributed mass

15:20 - 15:40 G. Kozlov
Gauge model of unparticles

15:40 - 16:00 O. Tarasov
Functional equations for Feynman integrals

16:00 - 16:20 M. Kalmykov
Massive Feynman Diagrams and all-order ε -expansion

16:20 - 16:40 A. Bednyakov
Three-loop running of the strong coupling constant and the mass of the b -quark in the supersymmetric QCD

16:40 - 17:00 R. Muradyan
Algebraic aspects of the Bogolyubov transformation

17:00 - 17:20 COFFEE BREAK

Chair: V.S. Fadin

17:20 - 17:40 H. Boos
Hidden Grassmann Structure of the XXZ model in the CFT limit

17:40 - 18:00 K. Klimenko
Phase structure of the Gross-Neveu model in the presence of baryon and isospin chemical potentials and in the spacetime with $R^1 \times S^1$ topology

18:00 - 18:20 A. Reshetnyak
Towards to Lagrangian formulations of mixed-symmetry Higher Spin Fields on AdS-spaces within BFV-BRST formalism

18:20 - 18:40 A. Kotikov
Anomalous dimensions of Wilson operators in $\mathcal{N} = 4$ SYM

18:40 - 19:00 Ł. Stępień
On some classes of exact solutions of scalar Born-Infeld equation

19:00 - 19:20 D. Slavnov
Double-slit experiment and Bogoliubov's causality principle

20:00 CONCERT

August 25, Tuesday

Session "Quantum field theory and theory of elementary particles" (TEP)

Blokhitsev Hall, 4nd floor

Chair: O. Teryaev

- 15:00 - 15:20 V. Galkin
Masses of heavy tetraquarks with hidden charm and bottom
- 15:20 - 15:40 N. Kochelev
Role of anomalous chromomagnetic interaction in pomeron and odderon structures and in gluon distribution
- 15:40 - 16:00 S. Esaybegyan
Bound States in Modified Action for Light Quarks in Instanton Vacuum Model
- 16:00 - 16:20 A. Radzhabov
Nonlocal quark model beyond mean field
- 16:20 - 16:40 I. Bogolubsky
On Two-Field Solitons in 2 and 3 Dimensions
- 16:40 - 17:00 A. Tarakanov
Self-consistent Description of $e^-e^+\gamma$ -Plasma Created from Vacuum in a Strong Electric Laser Field
- 17:00 - 17:20 COFFEE BREAK

Chair: B. Arbuzov

- 17:20 - 17:40 O. Teryaev
Multiscale nucleon, heavy strangeness and axial anomalies
- 17:40 - 18:00 M. Ivanov
Relations between $SU(2)$ and $SU(3)$ -LECs in χ PT at two-loop level
- 18:00 - 18:20 N. Tsirova
Structure of nucleon in chiral effective theory on the light front
- 18:20 - 18:40 A. Pimikov
QCD sum rules with nonlocal condensates and the spacelike pion form factor
- 18:40 - 19:00 E. Lushchevskaya
Chiral symmetry breaking in non-Abelian gauge theory with background magnetic field
- 19:00 - 19:20 N. Nikitin
Rare four-leptonic B-meson decays
- 20:00 CONCERT

August 25, Tuesday

Session "Statistical mechanics, kinetics and quantum theory of condensed matter" (StatMech)

Lecture Hall, 2nd floor
Chair: W. Götze

15:00 - 15:30 S. Flach
Universal spreading of wave packets in disordered nonlinear systems

15:30 - 16:00 F. Brosens
Carrier transport in nanodevices: a competitive playground for the Boltzmann and the Wigner distribution functions?

16:00 - 16:30 E. Tareyeva
A spin glass like phase in complex nonmagnetic systems

16:30 - 17:00 M. Smondyrev
Fröhlich polaron dispersion law in different numbers of space dimensions

17:00 - 17:20 COFFEE BREAK

Chair: E. Tareyeva

17:20 - 17:40 B. Brouwers
Langevin equation of fluid particle in wall-induced turbulence

17:40 - 18:00 V. Ryzhov
Reentrant glass transition in the repulsive step system

18:00 - 18:20 D. Čevizović
On the possible role of small polarons in the charge and energy transport in the α -helix proteins

18:20 - 18:40 S. Smolyansky
Strong Field Generalization of the Interband Transitions kinetics

20:00 CONCERT in House of Culture "Mir"

August 25, Tuesday

Session "Statistical mechanics, kinetics and quantum theory of condensed matter" (Kinetics)

DIAS Hall, ground floor

Chair: P. Exner

- 15:00 - 15:30 L. Pastur
A random matrix model of quantum relaxation
- 15:30 - 16:00 P. Duclos
NESS via adiabatic electrical bias
- 16:00 - 16:30 A. Zagorodny
Bogolyubov-Born-Green-Kirkwood-Yvon-hierarchy for dusty plasma and effective grain interactions
- 16:30 - 17:00 V. Belyi
Bogolyubov approach to the kinetic description of the degenerated plasma
- 17:00 - 17:20 COFFEE BREAK
- 17:20 - 17:40 M. Rasulova
The Cauchy problem for BBGKY hierarchy of quantum kinetic equations with Coulomb potential
- 17:40 - 18:00 Yu. Rudoy
Bogoliubovs' time scales hierarchy as a manifestation of the statistical aspects in the dynamical description of the harmonic oscillator relaxation
- 18:00 - 18:20 T. Tropin
Kinetics of fullerene cluster growth in solutions
- 18:20 - 18:40 M. Altaisky
Causality implications for quantum kinetic equation

Chair: V. Moscalenko

20:00 CONCERT at Hause of Culture "MIR"