Programm
4-th conference **LANDAU DAYS**

Landau Institute for Theoretical Physics
CHERNOGOLOVKA, Moscow region, RUSSIA
June 24 – 26, 2002

Monday, June 24

- 9:30-10:10
  V.E. Zakharov
  Theoretical interpretation of expirements on fetch limited growth of wind-driven sea
- 10:10-10:50
  S.K. Nechaev
  On the Plants Leaves Boundary and Conformal Embeddings
- 10:50-11.30
  Yu.N. Ovchinnikov
  Collapse in the Non-linear Schrõdinger equation of critical dimension $(\sigma = 1,\ D = 2)$
- 11:30-11:50 **Coffee break**
- 11:50-12:30
  V.P. Mineev
  Superconducting states in ferromagnetic metals
- 12:30-13:10
  Yu.G. Makhlin
  Nonlinear and transverse noise in two-levels systems
- 13:10-14:30 **Break for lunch**
- 14:30-15:10
  V.V. Lebedev
  Power dissipative spectra in turbulent polymer solutions
- 15:10-15:50
  L.A. Falkovsky
  Effects of the electron-phonon interaction on phonon shift and damping
- 15:50-16:30
  A.B. Kashuba
  Excitations in Quantum Hall Ferromagnet with strong Coulomb interaction
- 16:30-16:50 **Coffee break**
- 16:50-17:30
  N.B. Kopnin
  Influence of impurities on the ballistic transport in superconducting contacts
- 17:30-18:10
  S.G. Gukov
  Towards Classification of Rational Conformal Field Theories
- 18:10-18:50
  O.I. Mokhov
  Reductions of the Lame equations related to compatible nonlocal Poisson brackets of hydrodynamic type and the corresponding integrable bi-Hamiltonian hierarchies

Tuesday, June 25

- 9:30-10:10
  M.V. Chertkov
  Decay of scalar turbulence
- 10:10-10:50
  A.M. Dyugaev
  Weak-coupled two-particle state in the narrow potential
- 10:50-11.30
  P.G. Grinevich
  Topological charge of the finite gap Sine-Gordon solutions
- 11:30-11:50 **Coffee break**
- 11:50-12:30
  L.N. Shchur
  On the critical amplitude ratios in 2D Potts models
- 12:30-13:10
  G.E. Volovik
  Kelvin-Helmholtz instability in superfluids
- 13:10-14:30 **Break for lunch**
- 14:30-15:10
  E.I. Kats
  Membranes and depletion interactions in rod solutions
- 15:10-15:50
  A.S. Iosselevich
  Quantum liquid with a topological order: effects of disorder and finite size
- 15:50-16:30
  L.V. Bogdanov
  Reductions of Veselov-Novikov system and projective differential geometry
- 16:30-16:50 **Coffee break**
- 16:50-17:30
  M.A. Skvortsov
  Quantum correction to the Kubo formula in closed mesoscopic systems
- 17:30-18:10
  I.V. Kolokolov
  Intermittency in Burgers problem with white noise
- 18:10-18:50
  P.M. Ostrovskii
  Nonuniversal Density of States in a Disordered SNS System

Wednesday, June 26

- 9:30-10:10
  A.I. Larkin
  Persistent current in superconducting nanorings
- 10:10-10:50
  A.A. Starobinsky
  New directions in quantum cosmology
- 10:50-11.30
  I.M. Krichever
  Isomonodromic equations on the Riemann surfaces
- 11:30-11:50 **Coffee break**
- 11:50-12:30
  M.V. Feigelman
  Possible realization of ideal quantum computer in Josephson junction array
- 12:30-13:10
  S.E. Korshunov
  Fluctuation-dissipation theorem and flux noise in overdamped Josephson junction arrays
- 13:10-14:30 **Break for lunch**
- 14:30-15:10
  I.A. Lukyanchuk
  Domain Proximity and Ferroelectric Phase Transition in Ferroelectric-Paraelectric Multilayers
- 15:10-15:50
  G.B. Lesovik
  On the theory of measurement and interpretation of quantum mechanics
- 15:50-16:30
  A.Yu. Kamenshchik
  The Chaplygin gas cosmological model and cosmic acceleration
- 16:30-16:50 **Coffee break**
- 16:50-17:30
  V.B. Geshkenbein
  Out of plane properties of layered superconductors
- 17:30-18:10
  E.A. Kuznetsov
  Collapse in hydrodynamics and Kolmogorov spectrum