Joint Institute for Nuclear Research

Armenia-Dubna Workshop

Problems of (Supersymmetric) Integrable Systems

24-25 December 2012, Dubna

Organizing Committee
Tatiana Donskova (Secretary) Dubna, Sergey Krivonos, (Co-Chairman) Dubna, Armen Nersessian (Co-Chairman) Yerevan, Anton Sutulin Dubna, Vladimir Papoyan Dubna

Program

24 December, Blokhintsev Hall

- 10.00 - 10.05 Opening
- 10.05 - 10.45 Alexander Povolotsky, BLTP, JINR "Universal scaling functions of stochastic systems of interacting particles"
- 10.45 - 11.15 Vadim Ohanyan, Yerevan State University "Exact calculation of the magnetoelectric effect for XXZ-chain with DM-term by means of Quantum transfer matrix technique"
- 11.15 - 11.40 Break
- 11.40 - 12.20 Evgeny Ivanov, BLTP, JINR "One-dimensional models from harmonic superspace"
- 12.20 - 12.50 Sergey Fedoruk, BLTP, JINR "N=4 supersymmetric mechanics and Nahm equations"
- 12.50 - 13.20 Stepan Sidorov, BLTP, JINR "Super Landau Models on Odd Cosets"
- 13.20 - 15.20 Lunch
- 15.20 - 16.00 David Karakhanyan, Yerevan Physics Institute & Yerevan State University "Baxter Q-operator and Separation of Variables, recurrent construction for sl(n) Heisenberg chain"
- 16.00 - 16.30 Mikhail Feigin, Department of Mathematics, University of Glasgow "n Saito metric on the discriminant strata"
- 16.30 - 17.00 Tigran Hakobyan, Yerevan State University & Yerevan Physics Institute "The streamlining of energy levels for the SU(N)-symmetric chain Hubbard"
- 17.00 - 17.30 Break
- 17.30 - 18.00 Armen Nersessian, Yerevan State University Oscillators on curved spaces and division algebras
- 18.00 - 18.30 Nikolay Kozyrev, BLTP, JINR "N=2 Supersymmetric mechanics on HP^n with Sp(n+1) symmetry"
25 December, Blokhintsev Hall

- 10.00 - 10.45 Anton Galajinsky, Tomsk Polytechnic University
  "Nonrelativistic conformal symmetry in higher dimensions and its applications"
- 10.45 - 11.15 Ivan Masterov, Tomsk Polytechnic University
  "Dynamical realizations of Galileo’s conformal algebra"
- 11.15 - 11.45 Armen Saghatelian, Yerevan State University
  "Action-Angle Variables for a particle near extreme black holes"
- 11.45-12.10 Break
- 12.10 - 12.40 Arsen Khvedelidze, LIT, JINR
  "On the geometric probability of the separable mixed states"
- 12. 40 - 13.10 Vahagn Yeghikyan, Yerevan State University & Laboratori Nazionali di Frascati
  "Coulomb problem on 3-sphere in parabolic coordinates"
- 13. 10 - 13.40 David Petrosyan, BLTP, JINR
  "Classical Kepler-Coulomb problem on SO(2,2) hyperboloid"
- 13.40 - 15.00 Lunch
- 15.00 - 15.30 Evgeny Mamasakhlisov, Yerevan State University
  "ssRNA thermodynamics: the method of constrained annealing"
- 15.30 - 16.00 Vladimir Papoyan, BLTP, JINR
  "Two-dimensional random walk and critical behavior of double-strand DNA"
- 16.00-16.30 Nikolay Ivanov, Yerevan Physics Institute
  "Azimuthal Asymmetry and Ratio $R = F_L/F_T$ as Probes of the Heavy-Quark Densities in the Proton"
- 16.30 Closing