

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**