

Guest House of the Yerevan State University  
*Workshop on Supersymmetry in Integrable Systems*

24-28 August 2010

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*Noncommutative geometry with torsion and vortex solitons*
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*Generalized Calogero-Moser and Macdonald-Ruijsenaars systems from Cherednik Algebras*
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*About matrix models*
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*Invariants of the spherical sector in conformal mechanics*
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*Fuzzy geometry, supersymmetry and many-body physics*
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*SUSY, from QM to anyons*
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*Harmonic superspace in one dimension: applications in N=4 SQM models*
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*Discrete evolution operator for q-deformed top and Faddeev's modular double*
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*Geometry of second order operators and odd symplectic structures*
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*Hyper-Kahler Sigma Modles and Non-Abelian Monopole Background*

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*Supersymmetric multiplets embedding in different spaces. Formal construction.*
13. Olaf Lechtenfeld      e-mail: lechtenf@itp.uni-hannover.de  
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 *$\mathcal{N} = 4$  multi-particle mechanics, WDVV equations and deformed root systems*
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*Integrability and finite size effects in dyonic magnons*
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*Interaction for higher spin gauge fields and Noether's procedure*
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*Internal structure of string vacua:from NON-geometric susy to NON-supersymmetric geometry*
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*Reflections on Fuzzy Spaces, Landau Levels and Gravity*
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*Deforming SW curve*
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*Integrability in AdS/CFT correspondence*
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*A Tutorial on Quantum Clifford Algebras and Some of Their Applications*
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*Deformation quantization of instantons in  $R^4$*
26. Gor Sarkissian,     e-mail: gor@imf.au.dk  
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*Defects in the Liouville field theory*
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*Between Continuous and Discrete in Integrable Systems*
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*Finite wave propagation speed on metric graphs*
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*Dirac complex, twisted Dolbeault complex, and supersymmetry*
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*Crystals, instantons and quantum geometry*
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*Abelian and non-Abelian solitons stabilised by Chern–Simons charges: Hopf like solitons in all dimensions*
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*Extended Supersymmetries in 1D*
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*Deformed Calogero-Moser systems and Lie superalgebras*
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*Supersymmetries of Dirac Operators with Examples*
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*Hopf maps and Wigner's little groups*