



International Workshop
Classical and Quantum Integrable Systems
Dubna, Russia, January 22 - 25, 2007

PROGRAM

Monday, January 22

9:00 Registration

Conference Hall (2-nd floor)

10:00 Feher Laszlo (KFKI RMKI, Budapest & University of Szeged)
"Hamiltonian reductions of the free particle on a simple Lie group to (spin) Calogero type integrable models"

10:50 Coffee Break

11:20 Semikhatov Alexei (LPI, Moscow)
"Logarithmic extensions of $\widehat{sl}(2)$ conformal field models. Positive integer k "

12:10 Metsaev Ruslan (LPI, Moscow)
"Gravitational interaction of massive higher spin fields in (A)dS space"

13:00 Lunch time

Section A

Conference Hall (2-nd floor)

14:30 Arefeva Irina (SMI RAS, Moscow)
"NEC violating exact solutions in stringy models"

15:10 Filippov Alexandre (BLTP, Dubna)
"On dimensional reduction and relation between static states, cosmologies and waves in a class of integrable models of gravity"

15:50 Vernov Sergei (SINP, Moscow State University)
"Construction of exact solutions to cosmological models with polynomial potentials"

16:30 Coffee Break

17:00 Tolstoy Valery (SINP, Moscow State University)
"Quantum Deformations of Relativistic Symmetries"

17:40 Zupnik Boris (BLTP, Dubna)
"Equations of noncommutative gravity"

18:20 Vernov Yuri (INR, Moscow)
"Test Functions Space in Noncommutative Quantum Field Theory"



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Section B

Blokhintsev Hall (4-th floor)

- 14:30** Tipunin Ilya (LPI, Moscow)
"Quantum groups in logarithmic conformal field theories"
- 15:10** Oblezin Sergei (ITEP, Moscow)
"Givental representation for classical groups"
- 15:50** Derkachov Sergei (PDMI RAS, St.Petersburg)
"The general R-Matrix for noncompact $SL(N, C)$ Invariant Spin Chain"
- 16:30** **Coffee Break**
- 17:00** Pugai Yaroslav (ITP, Chernogolovka)
"Algebraic approach to form factors in $Z(n)$ models"
- 17:40** Iorgov Nikolai (BITP, Kiev)
"Separation of variables in Baxter-Bazhanov-Stroganov model"
- 18:20** Litvinov Alexei (ITP, Chernogolovka)
"Four and five point correlation functions in Liouville field theory"



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Tuesday, January 23

Conference Hall (2-nd floor)

9:00 Karowski Michael (Freie Universität Berlin)
"The nested $SU(N)$ off-shell Bethe ansatz and exact form factors"

10:00 Zabrodin Anton (ITEP, Moscow)
"Hirota equation for supersymmetric integrable models"

10:50 Coffee Break

11:20 Razumov Alexander (IHEP, Protvino)
"Ground state of XXZ model in combinatorial point"

12:10 Zinn-Justin Paul (LPTMS, Université Paris Sud)
" qKZ , $ASMs$, $TSSCPPs$ and all that"

13:00 Lunch time

Section A

Conference Hall (2-nd floor)

14:30 Boos Hermann (Bergische Universität Wuppertal & SINP, Moscow State University)
"'Factorization' and fermionic structure of the XXZ model"

15:10 Goehmann Frank (Bergische Universität Wuppertal)
"The density matrix of a finite segment of the Heisenberg spin chain"

15:50 Slavnov Nikita (SMI RAS, Moscow)
"On correlation functions of integrable models associated to the six-vertex R -matrix"

16:30 Coffee Break

17:00 Chernyakov Yuri (ITEP, Moscow)
"Quadratic algebra associated with elliptic curve and integrable systems"

17:40 Rybnikov Leonid (Poncelet Laboratory & Moscow State University)
"Higher Hamiltonians of the Gaudin model"

18:20 Boyko Vyacheslav (Institute of Mathematics, Kiev)
"Computation of Invariants of Lie Algebras by Means of Moving Frames"



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Section B

Blokhintsev Hall (4-th floor)

- 14:30** Ivanov Evgeny (BLTP, Dubna)
"Planar Super-Landau Models"
- 15:10** Konstein Semyon & Tyutin Igor (LPI, Moscow)
"The deformations of nondegenerate constant Poisson bracket and antibracket on the superspaces of arbitrary superdimensions"
- 15:50** Sorin Alexander (BLTP, Dubna)
" $N=2$ supersymmetric unconstrained matrix GNLS hierarchies are consistent"
- 16:30** Coffee Break
- 17:00** Popowicz Ziemowit (Wroclaw University)
" $N=2$ Supersymmetric Degasperis - Procesi equation"
- 17:40** Nersessian Armen (YerPhI) / Ohanyan Vadim (Yerevan State University)
"Generalized MICZ-Kepler systems" /
"Integrability of two-center MICZ-Kepler system"
- 18:20** Skrypnyk Taras (Institute of Mathematics, Kiev)
"Classical R-operators, extension of commutative subalgebras and 'trinality' in integrable hierarchies"



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Wednesday, January 24

Conference Hall (2-nd floor)

9:00 Kazakov Vladimir (LPT, Université Paris VI)
"Integrable structures in stringy sigma models"

10:00 Belavin Alexander (ITP, Chernogolovka) &
Zamolodchikov Alexei (LPTA, Université Montpellier II)
"A recursive relation for $N=1$ superconformal block"

10:50 Coffee Break

11:20 Faddeev Ludwig (PDMI RAS, St.Petersburg)
"Discrete evolution for the zero modes of quantum Liouville model"

12:10 Zamolodchikov Alexander (Rutgers University, USA & ITP, Chernogolovka)
"Extended conformal symmetry, integrability, and duality in boundary interactions"

13:00 Lunch time

Section A

Conference Hall (2-nd floor)

14:30 Marshakov Andrey (LPI & ITEP, Moscow)
"Extended Seiberg-Witten Theory and Integrable Hierarchy"

15:10 Mironov Andrey (LPI & ITEP, Moscow)
"Duality among matrix models: small M -theory"

15:50 Pavlov Maxim (LPI RAS, Moscow)
"New class of explicit solutions of WDVV equation"

16:30 Coffee Break

17:00 Bogoliubov Nikolai (PDMI RAS, St.Petersburg)
"Four-vertex model and random tilings"

17:40 Povolotsky Alexander (DIAS, Dublin)
"Determinant solution for the totally asymmetric exclusion process with parallel update"

18:20 Nirov Khazretali (INR, Moscow)
"On loop Lie algebras, loop groups, and associated Toda equations"

19:30 Banquet

Cafeteria (2-nd floor)



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Wednesday, January 24

Section B

Blokhintsev Hall (4-th floor)

- 14:30** Krasil'shchik Joseph (Independent University, Moscow) &
Kersten Paul (University of Twente, Netherlands)
"Nonlocal Geometry of PDEs and Integrability"
- 15:10** Tsiganov Andrey (St.Petersburg University)
"On the Poisson brackets compatible with the Sklyanin brackets"
- 15:50** Damaskinsky Eugeny (St.Petersburg University of the defence engineering constructions)
"Generalized oscillators, orthogonal polynomials and coherent states"
- 16:30** **Coffee Break**
- 17:00** Kazakov Dmitri & Vartanov Grigory (BLTP, Dubna)
"Renormalizable $1/N_f$ Expansion in Gauge Theories in Extra Dimensions"
- 17:40** Kotikov Anatoly (BLTP, Dubna)
"Beisert-Eden-Staudacher equation in $N=4$ SUSY"
- 18:20** Sevastyanov Alexei (University of Aberdeen, UK)
"A mass generation mechanism for gauge fields"

19:30 **Banquet**

Cafeteria (2-nd floor)



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Thursday, January 25

Conference Hall (2-nd floor)

9:00 Kulish Petr (PDMI RAS, St.Petersburg)

"Algebraic features of integrable spin chains"

10:00 Vershik Anatoly (PDMI RAS, St.Petersburg)

"On spectra of Gel'fand-Zetlin algebras in representations of the symmetric group and of Brauer type algebras"

10:50 Coffee Break

11:20 Veselov Alexander (Loughborough university, UK & ITP, Moscow)

"Polynomial solutions of KZ equations and Schur-Weyl duality"

12:10 Fock Vladimir (ITEP, Moscow)

"Stokes parameters and clusters"

13:00 Lunch time

Section A

Conference Hall (2-nd floor)

14:30 Bytsko Andrey (PDMI RAS, St.Petersburg)

"Lattice Liouville model and its quantum group symmetry"

15:10 Chekhov Leonid (SMI RAS, Moscow)

"Teichmuller spaces of bordered surfaces and algebras"

15:50 Chervov Alexander (ITEP, Moscow)

"Langlands correspondence and Talalaev's quantum spectral curves"

16:30 Coffee Break

17:00 Bondal Alexei (SMI RAS, Moscow)

"Towards classification of Poisson projective varieties"

17:40 Pogrebkov Andrey (SMI RAS, Moscow)

"Associative algebras and integrability"

18:30 Closing



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Thursday, January 25

Section B

Blokhintsev Hall (4-th floor)

- 14:30** Gorbunov Vasilii (University of Aberdeen, UK)
"Chiral de Rham complex and applications to topology"
- 15:10** Helminck Gerardus (University of Twente, Netherlands)
"Monodromy preserving deformations of connections on $P^1(C)$ "
- 15:50** Penskoi Alexei (Independent University & Bauman Technical University, Moscow)
"Integrable systems and topology of isospectral manifolds"
- 16:30** **Coffee Break**
- 17:00** Khvedelidze Arsen (BLTP, Dubna)
"Light-cone Yang-Mills mechanics: $SU(2)$ vs. $SU(3)$ "
- 17:40** Nakamura Yuichi (University of Tokyo)
"non-Hermitian analysis of strongly correlated quantum systems"
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18:30 **Closing**