Selected Topics of Modern Mathematical Physics

June 27 - July 3, 2005 Saint-Petersburg, Russia

Programme

Monday 27 June		
$18^{00}-20^{00}$	**Registration (Euler Institute)**	
Tuesday 28 June		
Time	Speaker	Title
$9^{00}-10^{00}$	**Registration**	
$10^{00}-10^{45}$	F. Smirnov (LPTHE, Paris)	*Traces over Sklyanin algebra and correlations in XYZ-model*
$10^{45}-11^{30}$	L. Lipatov (PNPI, St. Petersburg)	*Anomalous dimensions of twist-2 operators in N=4 SUSY*
$11^{30}-11^{45}$	**Coffee break**	
$11^{45}-12^{30}$	E. Langmann (KTH, Stockholm)	*On Calogero-Sutherland type models and orthogonal polynomials*
$12^{30}-13^{15}$	J. Mickelsson (KTH, Stockholm)	*Quillen superconnection and twisted K theory*
$13^{15}-15^{00}$	**Lunch**	
$15^{00}-15^{45}$	A. Belavin (Landau Institute)	*Correlation functions in Liouville gravity*
$15^{45}-16^{30}$	A. Mironov (ITEP, Moscow)	*Matrix Models vs Matrix Integrals*
$16^{30}-16^{45}$	**Coffee break**	
$16^{45}-17^{30}$	V. Fock (ITEP, Moscow)	*Duality in cluster varieties*
$17^{30}-18^{15}$	D. Sternheimer	*Quantization is deformation*
18^{30}	**Welcome Party**	

Wednesday 29 June		
$10^{00}-10^{45}$	I. Arefeva (MIAN, Moscow)	*Strings and cosmological dark energy models*
$10^{45}-11^{30}$	D. Diakonov (Petersburg Nuclear Physics Institute)	*Yang–Mills theory as a quantum gravity with "aether"*
$11^{30}-11^{45}$	**Coffee break**	
$11^{45}-12^{30}$	L. Takhtajan (SUNY, Stony Brook)	*Faddeev-Popov ghosts, holomorphic factorization, and higher genus generalization of Kronecker's limit formula*
$12^{30}-13^{15}$	A. Isaev (JINR, Dubna)	*Multi-loop Feynman integrals and conformal quantum mechanics*
$13^{15}-15^{00}$	**Lunch**	
$15^{00}-15^{45}$	K. Zarembo (Uppsala U.)	*Bethe Ansatz and AdS/CFT correspondence*
$15^{45}-16^{30}$	M. Staudacher (AEI MPG)	*The Factorized S-Matrix of CFT/AdS*
$16^{30}-16^{45}$	**Coffee break**	
$16^{45}-17^{30}$	A. Losev (ITEP, Moscow)	*Towards quantum homological algebra*
$17^{30}-18^{15}$	A.Marshakov(FIAN-ITEP, Moscow)	*Matrix model for stationary Toda chain*
Parallel Session		
$10^{00}-10^{45}$	A.Kokotov (Concordia University)	*Tau-functions on spaces of Abelian differentials and determinants of Laplacians on Riemann surfaces*
$10^{45}-11^{30}$	J.Hartwig (Chalmers University of Technology)	*Generalized Weyl algebras and quantum groups*
$11^{30}-11^{45}$	**Coffee break**	
$11^{45}-12^{30}$	V.Matveev (PDMI & Bourgogne University)	*Gaston Darboux and compte de Srarre: retrospective*
$12^{30}-13^{15}$	S.Slavyanov (St.Petersburg State University)	*Isomonodromic deformations and "antiquantization" for Heun class equations.*
18^{30}	**Excursion**	

Thursday 30 June		
Time	Speaker	Title
$10^{00}-10^{45}$	A. Stolin (U. Goteborg)	*Quasi-trigonometric solutions of the YBE*
$10^{45}-11^{30}$	D. Gurevich (Valenciennes U.)	*Quantum matrix algebras in non-commutative geometry*
$11^{30}-11^{45}$	**Coffee break**	
$11^{45}-12^{30}$	D. Lebedev (MPIM, Bonn & ITEP, Moscow)	*Moduli space of monopoles and quantum groups*
$12^{30}-13^{15}$	D. Korotkin (Concordia U.)	*Isomonodromic tau-function of Frobenius manifolds, large N expansion in matrix models and determinants of Laplacians*
$13^{15}-15^{00}$	**Lunch**	
$15^{00}-15^{45}$	J. Fuchs (Karlstads U.)	*Conformal field theory and Frobenius algebras in modular tensor categories*
$15^{45}-16^{30}$	V. Kazakov (ENS, Paris)	*Integrability and algebraic curve of AdS/CFT*
$16^{30}-16^{45}$	**Coffee break**	
$16^{45}-17^{30}$	U. Lindström (Uppsala U.)	*Generalized Complex Geometry and Sigma Models*
18^{30}	**Banquet**	

Friday 1 July		
Time	Speaker	Title
$10^{00}-10^{45}$	J. Hoppe (KTH, Stokholm)	*Follytons (and Lie-Laplacians)*
$10^{45}-11^{30}$	A. Bobenko (TU Berlin)	*Variational principles with dilogarithms and circle patterns*
$11^{30}-11^{45}$	**Coffee break**	
$11^{45}-12^{30}$	V. Tarasov (PDMI & IUPUI)	*Bispectral duality and Bethe ansatz*
$12^{30}-13^{15}$	S. Pakuliak (JINR, Dubna) [joint talk with S.Khoroshkin]	*Universal weight function*
$13^{15}-15^{00}$	**Lunch**	
$15^{00}-15^{45}$	N. Reshetikhin (UC Berkeley)	*Recent progess in 6-vertex model*
$15^{45}-16^{30}$	P. Pyatov (JINR, Dubna)	*Open XXZ chains, stochastic interfaces and combinatorics of Pascal's hexagon*
$16^{30}-16^{45}$	**Coffee break**	
$16^{45}-17^{30}$	J-M. Maillet (ENS, Lyon)	*Dynamical correlation functions of the XXZ chain*
$17^{30}-18^{15}$	N. Kitanine (Cergy-Poutoise)	*Correlation functions of the XXZ chain at* $\Delta = 1/2$

Saturday 2 July		
Time	Speaker	Title
$10^{00}-10^{45}$	S. Derkachov (St.Petersburg Technology Institute)	*Factorization of the general R-matrix and Baxter's Q-operator*
$10^{45}-11^{30}$	A. Gorsky (ITEP, Moscow)	*Gauge/String duality and Baxter operator*
$11^{30}-11^{45}$	**Coffee break**	
$11^{45}-12^{30}$	L. Vaksman (ILTP, Kharkov)	*Quantum groups and non-commutative complex analysis*
$12^{30}-13^{15}$	A. Pogrebkov (MI RAN, Moscow)	*Some aspects of (2+1)-dimensional integrable models*
$13^{15}-15^{00}$	**Lunch**	
$15^{00}-15^{45}$	I. Komarov (V.A.Fock Institute of physics, St.Petersburg) [joint talk with A. Tsiganov]	*Connection of the Kowalevski gyrostat and the Clebsch system*
$15^{45}-16^{30}$	I. Kantor (Lund U.)	*Doubling process for Jordan (super)algebras and algebraic formalism uniting classical and quantum mechanics*
$16^{30}-16^{45}$	**Coffee break**	
$16^{45}-17^{30}$	P. Saponov (Institute for High Energy Physics, Protvino)	*The spectrum of quantum super-matrices*