

International Workshop

**“Classical and quantum integrable systems
and supersymmetry”**

CQISS'2016

September 19 – 24, 2016

**Chern Institute of Mathematics
Nankai University, Tianjin, China**

International Advisory Committee:

Alexander Belavin (*L.D. Landau Inst. for Theor. Phys., Moscow, Russia*)

Hermann Boos (*Bergische Univ., Wuppertal, Germany*)

Ludwig Faddeev (*St. Petersburg Depart. of Steklov Math. Inst., Russia*)

Mo-Lin Ge (*Chern Institute of Math., Tianjin, China*)

Evgeny Ivanov (*BLTP, JINR, Dubna, Russia*)

Oleg Ogievetsky (*CTP, Marseille, France & LPI, Moscow, Russia*)

Mikhail Olshanetsky (*ITEP, Moscow, Russia*)

Vladimir Rubtsov (*University of Angers, France*)

Alexander Zamolodchikov (*Rutgers University, U.S.A. & L.D. Landau Inst. for Theor. Phys., Moscow, Russia*)

Local Organizing Committee:

Chengming Bai (*Chern Inst. of Math., Tianjin, China*) – Co-chairman

Sergey Derkachov (*St. Petersburg Depart. of Steklov Math. Inst., Russia*)

Sergey Fedoruk (*JINR, Dubna, Russia*) – Scientific secretary

Alexei Isaev (*JINR, Dubna, Russia*) – Co-chairman

Sergey Lando (*NRU Higher School of Economics, Moscow, Russia*) – Co-chairman

Andrei Mironov (*ITEP & Lebedev Phys. Inst., Moscow, Russia*)

Alexey Morozov (*ITEP, Moscow, Russia*) – Co-chairman

Pavel Pyatov (*NRU Higher School of Economics, Moscow & JINR, Dubna, Russia*)

Nikita Slavnov (*Steklov Math. Inst., Moscow, Russia*)

Shanzhong Sun (*Capital Normal University, Beijing, China*)

Valeriy Tolstoy (*Lomonosov Moscow State Univ., Russia*)

Wen-Li Yang (*Northwest University, Xi'an, China*)

Organisers:

Chern Institute of Mathematics, Nankai University, Tianjin
Bogoliubov Laboratory of Theoretical Physics, JINR, Dubna
Alikhanov Institute for Theoretical and Experimental Physics, Moscow
National Research University Higher School of Economics, Moscow

Supported by:

Chern Institute of Mathematics, Nankai University
Bogoliubov Laboratory of Theoretical Physics, JINR, Dubna
Alikhanov Institute for Theoretical and Experimental Physics, Moscow
National Research University Higher School of Economics, Moscow
Ministry of Education, China
National Natural Science Foundation of China

CQISS'2016

SCHEDULE

	Sept. 18	Sept. 19	Sept. 20	Sept. 21	Sept. 22	Sept. 23	Sept. 24	Sept. 25	
Chair	Registration (at Jiayuan Hotel)	A. Isaev	N. Slavnov	Free Day	A. Mironov	Al. Morozov	W.-L. Yang	Departure	
9.00 – 9.15		Opening							
9.15 – 10.00		Mo-Lin Ge	H. Boos			L. Chekhov	A. Niemi		V. Kazakov
10.00 – 10.30		Coffee break				Coffee break			
10.30 – 11.15		N. Slavnov	W.-L. Yang			Yu. Matsuo	S. Lando		A. Marshakov
11.15 – 12.00		S. Pakuliak	V. Tarasov			P. Sulkowski	And. Morozov		A. Zotov
12.00 – 14.30		Lunch				Lunch			
Chair		S. Sun	S. Pakuliak			P. Pyatov	S. Fedoruk		V. Tarasov
14.30 – 15.15		A. Zabrodin	A. Kirillov			V. Rubtsov	A. Smilga		P. Gavrylenko
15.15 – 15.45		Coffee break				Coffee break			
15.45 – 16.30		P. Pyatov	S. Sun			Y. Zenkevich	S. Sidorov		B. Bychkov
16.30 – 17.15						G. Aminov			Closing

Monday 19th September

Location: Lecture Hall 216, Shiing-Shen Building

Time	Speaker / Title
9.00 – 9.15	Opening
Chair: Alexei Isaev (<i>BLTP JINR, Dubna, Moscow region, Russia</i>)	
09.15 – 10.00	Mo-Lin Ge (<i>Chern Institute of Mathematics, Tianjin, China</i>) Physical Effects of Yang-Baxter Equation in Quantum Information
10.00 – 10.30	Coffee Break
10.30 – 11.15	Nikita Slavnov (<i>Steklov Mathematical Institute, Moscow, Russia</i>) Determinant formulas for form factors in the models with $gl(2 1)$ symmetry
11.15 – 12.00	Stanislav Pakuliak (<i>JINR, Dubna, Moscow region, Russia</i>) Construction of supersymmetric universal Bethe vectors
12.00 – 14.30	Lunch
Chair: Shanzhong Sun (<i>Capital Normal University, Beijing, China</i>)	
14.30 – 15.15	Anton Zabrodin (<i>ITEP, Moscow, Russia</i>) Supersymmetric quantum spin chains and classical integrable models
15.15 – 15.45	Coffee Break
15.45 – 16.30	P. Pyatov (<i>Higher School of Economics & JINR, Moscow, Russia</i>) de Rahm complex over quantum linear groups and dynamical R-matrices

Tuesday 20th September

Location: Lecture Hall 216, Shiing-Shen Building

Time	Speaker / Title
Chair: Nikita Slavnov (<i>Steklov Mathematical Institute, Moscow, Russia</i>)	
09.15 – 10.00	Hermann Boos (<i>University of Wuppertal, Germany</i>) Hidden fermionic structure of conformal field theories
10.00 – 10.30	Coffee Break
10.30 – 11.15	Wen-Li Yang (<i>Institute of Modern Physics, Northwest University, China</i>) Exact solution of the Z_n-Belavin Model
11.15 – 12.00	Vitaly Tarasov (<i>Indiana University Purdue University Indianapolis, USA</i>) On completeness of the Bethe ansatz for the XXX mode
12.00 – 14.30	Lunch
Chair: Stanislav Pakuliak (<i>JINR, Dubna, Moscow region, Russia</i>)	
14.30 – 15.15	Anatoli Kirillov (<i>RIMS, Kyoto University, Japan</i>) Baxterization
15.15 – 15.45	Coffee Break
15.45 – 16.30	Shanzhong Sun (<i>Capital Normal University, Beijing, China</i>) Moyal quantization of the cyclic cohomology of Fukaya categories

Thursday 22th September

Location: Lecture Hall 216, Shiing-Shen Building

Time	Speaker / Title
Chair: Andrei Mironov (<i>Lebedev Physics Institute & ITEP, Moscow, Russia</i>)	
09.15 – 10.00	Leonid Chekhov (<i>Steklov Mathematical Institute, Moscow, Russia</i>) Topological recursion for classical ensembles and cohomological field theories
10.00 – 10.30	Coffee Break
10.30 – 11.15	Yutaka Matsuo (<i>The University of Tokyo, Japan</i>) Coherent states in quantum $W(1+\infty)$ algebra and qq-character for 4d/5d Super Yang-Mills
11.15 – 12.00	Piotr Sulkowski (<i>University of Warsaw, Poland</i>) Super-quantum curves
12.00 – 14.30	Lunch
Chair: P. Pyatov (<i>Higher School of Economics & JINR, Moscow, Russia</i>)	
14.30 – 15.15	Vladimir Rubtsov (<i>ITEP Moscow, Russia & LAREMA UMR 6093 du CNRS Angers, France</i>) Around Painleve monodromy varieties: geometry and quantization
15.15 – 15.45	Coffee Break
15.45 – 16.30	Yegor Zenkevich (<i>ITEP & INR, Moscow, Russia</i>) Integrable structure of refined topological strings
16.30 – 17.15	Gleb Aminov (<i>ITEP, Moscow, Russia</i>) Modular form expansion for double-elliptic Seiberg-Witten prepotential

Friday 23th September

Location: Lecture Hall 216, Shiing-Shen Building

Time	Speaker / Title
Chair: Alexey Morozov (<i>ITEP, Moscow, Russia</i>)	
09.15 – 10.00	Antti Niemi (<i>Uppsala University & CNRS, Uppsala, Sweden</i>) Folding proteins at the speed of life
10.00 – 10.30	Coffee Break
10.30 – 11.15	Sergey Lando (<i>Higher School of Economics, Moscow, Russia</i>) Combinatorial solutions to integrable hierarchy
11.15 – 12.00	Andrey Morozov (<i>IITP RAS, Moscow, Russia</i>) Arborescent knots and HOMFLY polynomials
12.00 – 14.30	Lunch
Chair: Sergey Fedoruk (<i>BLTP JINR, Dubna, Moscow region, Russia</i>)	
14.30 – 15.15	Andrei Smilga (<i>University of Nantes, SUBATECH, France</i>) Differential geometry through supersymmetric glasses: old and new results
15.15 – 15.45	Coffee Break
15.45 – 16.30	Stepan Sidorov (<i>BLTP JINR, Dubna, Moscow region, Russia</i>) SU(2 2) supersymmetric mechanics

Saturday 24th September

Location: Lecture Hall 216, Shiing-Shen Building

Time	Speaker / Title
Chair: Wen-Li Yang (<i>Institute of Modern Physics, Northwest University, China</i>)	
09.15 – 10.00	Vladimir Kazakov (<i>Ecole Normale Supérieure & UPMC, Paris, France</i>) New integrable QFTs in dimensions $D > 2$
10.00 – 10.30	Coffee Break
10.30 – 11.15	Andrei Marshakov (<i>FIAN & ITEP & HSE, Moscow, Russia</i>) On twist fields for W-algebras
11.15 – 12.00	Andrey Zotov (<i>Steklov Mathematical Institute, Moscow, Russia</i>) Associative Yang-Baxter equation: classical and/or quantum integrability
12.00 – 14.30	Lunch
Chair: Vitaly Tarasov (<i>Indiana University Purdue University Indianapolis, USA</i>)	
14.30 – 15.15	Pavlo Gavrylenko (<i>Higher School of Economics, Moscow, Russia</i>) Nekrasov functions at $\epsilon_1 + \epsilon_2 = 0$ from the Riemann-Hilbert problem
15.15 – 15.45	Coffee Break
15.45 – 16.30	Boris Bychkov (<i>Higher School of Economics, Moscow, Russia</i>) Degrees of the stratum of Hurwitz spaces
16.30	Closing

Thank you very much

and welcome you

to visit Chern Institute of Mathematics again!