

Sunday, June 24

MORNING SESSION 09:00–12:35

Chairman: Syed Twareque Ali

- 09:00–09:15** Opening
- 09:15–10:10** *Volkov's pentagon relation for the modular quantum dilogarithm.*
Ludwig FADDEEV, St. Petersburg Department of the Steklov Mathematical Institute, Russia
- 10:15–11:10** *The Laplace Transform, Mirror Symmetry, and the Topological Recursion of Eynard–Orantin.*
Motohico MULASE, University of California, Davis, USA
- 11:10–11:40** Coffee break
- 11:40–12:05** *An analogue of the Conjecture of Dixmier is true for the algebra of integro-differential operators.*
Vladimir BAVULA, University of Sheffield, United Kingdom
- 12:10–12:35** *Heat equation and polynomial dynamical systems.*
Elena BUNKOVA, Steklov Mathematical Institute, Russia

AFTERNOON SESSION 14:15–17:20

Chairman: Norbert Hounkonnou

- 14:30–15:10** *Inhomogeneous systems of hydrodynamic type possessing Lax representations.*
Alexandre ODESSKI, Brock University, Canada
- 15:15–15:40** *Some applications of the reduction method to integrable many-body systems.*
Laszlo FEHER, Wigner RCP, RMKI and University of Szeged, Hungary
- 15:40–16:10** Coffee break
- 16:10–16:50** *Cohomology of flag varieties and Bethe algebras.*
Vitaly TARASOV, Indiana University–Purdue University Indianapolis, USA
- 16:55–17:20** *Proof that Darboux Wronskians give all Darboux transformations of total order two.*
Ekaterina SHEMYAKOVA, Western University, Canada

Monday, June 25

MORNING SESSION 09:00–12:50

Chairman: Michel Cahen

- 09:00–09:55** *Poisson structure of difference Lax equations and Difference Galois groups.*
Michael SEMENOV-TIAN-SHANSKY, Université de Bourgogne, France
- 10:00–10:55** *Duality for multiple vector bundles.*
Kirill MACKENZIE, University of Sheffield, United Kingdom
- 10:55–11:25** Coffee break
- 11:25–12:05** *Berezin transform and a deformation decomposition.*
Vladimir MOLCHANOV, Derzhavin Tambov State University, Russia
- 12:10–12:50** *An elementary proof of the vanishing of the second Lie algebra cohomology of the Witt and Virasoro algebra with values in the adjoint module.*
Martin SCHLICHENMAIER, Université de Luxembourg, Luxembourg

AFTERNOON SESSION 14:30–17:30

Chairman: Pierre Bieliavsky

- 14:30–15:10** *Poles of Painlevé transcendents and special structures in integrable systems.*
Marco BERTOLA, Concordia University, Canada
- 15:15–15:40** $\Theta(x, p)$ -deformation quantization of harmonic oscillator on a $2D$ -phase space.
Norbert HOUNKONNOU, University of Abomey-Calavi, Republic of Benin
- 15:40–16:05** Coffee break
- 16:05–16:30** *A useful parametrization of Siegel-Jacobi manifolds.*
Stefan BERCEANU, "Horia Hulubei" National Institute of Physics and Nuclear Engineering, Romania
- 16:35–17:00** *Asymptotic behavior of series of multiple integrals.*
Karol KOZŁOWSKI, Institut de Mathématiques de Bourgogne, France
- 17:05–17:30** *Graded contractions of representations of Lie algebra $sl(3; C)$.*
Petr NOVOTNY, České Vysoké Učení Technické v Praze, Czech Republic

Tuesday, June 26

MORNING SESSION 09:00–13:00

Special Session in honour of B.V. Fedosov

Chairman: Kirill Mackenzie

- 09:00–09:05** Opening: *Boris V. Fedosov (1938–2011)*
- 09:05–10:00** *Holography, Unfolding and Higher-Spin Theory.*
Mikhail VASILIEV, Lebedev Physical Institute, Russia
- 10:05–11:00** *Mp^c structures and symplectic geometry.*
Simone GUTT, Université Libre de Bruxelles, Belgium
- 11:00–11:20** Coffee break
- 11:20–12:15** *Symplectic Dirac operators.*
Michel CAHEN, Université Libre de Bruxelles, Belgium
- 12:20–13:00** *Star products — formal extension and nonformal extension.*
Akira YOSHIOKA, Tokyo University of Science, Japan

AFTERNOON SESSION 14:25–17:20

Special Session in honour of B.V. Fedosov

Chairman: Yurii Neretin

- 14:30–15:25** *"Oscillating" quantum groups, pentagon equations and multiplicative unitaries.*
Pierre BIELIAVSKY, Université Catholique de Louvain, Belgium
- 15:30–15:55** *Noncommutative almost Kaehler–Ricci Solitons and Deformation Quantization.*
Sergiu VACARU, University Alexandru Ioan Cuza, Romania
- 15:55–16:25** Coffee break
- 16:25–16:50** *Non-formal star-exponential of Kahlerian Lie groups.*
Axel DE GOURSAC, Université Catholique de Louvain, Belgium
- 16:55–17:20** *Geometric noncommutative gravity from deformation quantization of endomorphism bundle.*
Michał DOBRSKI, Politechnika Łódzka, Poland

Wednesday, June 27

MORNING SESSION 09:00–12:50

Chairman: Michael Semenov-Tian-Shansky

- 09:00–09:55** *Symbolic calculus on coadjoint orbits of nilpotent Lie groups.*
Daniel BELTIȚĂ, Institute of Mathematics “Simion Stoilow” of the Romanian Academy, Romania
- 10:00–10:55** *Form factor approach to the correlation functions of integrable models.*
Nikita SLAVNOV, Steklov Mathematical Institute, Russia
- 10:55–11:25** Coffee break
- 11:25–11:50** *Conformally compactified Minkowski space and nonlinear electrodynamics.*
Gerald GOLDIN, Rutgers University, USA
- 11:55–12:20** *Fermionic screening currents and chiral de Rham complex on toric manifolds.*
Sergei PARKHOMENKO, L.D. Landau Institute for Theoretical Physics, Russia
- 12:25–12:50** *Lagrange Anchor and Characteristic Symmetries of Free Massless Fields.*
Dmitry KAPARULIN, Tomsk State University, Russian Federation

Thursday, June 28

MORNING SESSION 09:00–12:50

Chairman: Ludwig Faddeev

- 09:00–09:55** *R-matrix in the theory of locally compact quantum groups.*
Stanisław Lech WORONOWICZ, Instytut Matematyki, Uniwersytet w Białymstoku, Poland
- 10:00–10:55** *The leafwise Laplacian and its spectrum: the singular case.*
Iakovos ANDROULIDAKIS, University of Athens, Greece
- 10:55–11:25** Coffee break
- 11:25–11:50** *On mappings with separable dynamics.*
Anatolij ANTONEVICH, Instytut Matematyki, Uniwersytet w Białymstoku, Poland
- 11:55–12:20** *Quantum Deformations of $D = 4$ SuperPoincaré algebras and their Euclidean counterparts.*
Jerzy LUKIERSKI, Uniwersytet Wrocławski, Poland
- 12:25–12:50** *How to construct self/anti-self charge conjugate states? Discrete Symmetries, P , C , T and all that.*
Valeriy DVOEGLAZOV, Universidad de Zacatecas, Mexico

AFTERNOON SESSION 14:30–17:20

Chairman: Daniel Beltiță

- 14:30–14:55** *Some complex polynomials associated to non-commutative quantum mechanics.*
Syed Twareque ALI, Concordia University, Canada
- 15:00–15:25** *Dunkl operators as covariant derivatives in a quantum principal bundle.*
Stephen SONTZ, Centro de Investigación en Matemáticas, Mexico
- 15:25–15:55** Coffee break
- 15:55–16:20** *Complete Decomposition of Weyl group orbit product of A_2 .*
Agnieszka TERESZKIEWICZ, Instytut Matematyki, Uniwersytet w Białymstoku, Poland
- 16:25–16:50** *Discretization of new Weyl group orbit functions.*
Jiří HRIVNÁK, České Vysoké Učení Technické v Praze, Czech Republic
- 16:55–17:20** *Vector fields on map spaces and a remark about the AKSZ construction.*
Theodore VORONOV, University of Manchester, United Kingdom

Friday, June 29

AFTERNOON SESSION 14:00–17:20

Chairman: Gerald Goldin

- 14:00–14:25** *On geometry of Carnot–Carathéodory spaces with C^1 -smooth vector fields.*
Sergey VODOPYANOV, Sobolev Institute of Mathematics, Russia
- 14:30–14:55** *Local geometry of Carnot–Caratheodory spaces and its applications in nonlinear control theory.*
Svetlana SELIVANOVA, Sobolev Institute of Mathematics, Russia
- 15:00–15:25** *Fundamental equations of geodesic and holomorphically projective mappings.*
Josef MIKEŠ, Univerzita Palackého v Olomouci, Czech Republic
- 15:25–15:55** Coffee break
- 15:55–16:20** *On holomorphically projective mappings of e-Kähler manifolds.*
Irena HINTERLEITNER, Vysoké učení technické v Brně, Czech Republic
- 16:25–16:50** *Finsler Ricci flow and Einstein metrics.*
Nasrin SADEGHZADEH, Qom University, Iran
- 16:55–17:20** *Homotopy classification of superline bundles.*
Saad VARSAIE, Institute for Advanced Studies in Basic Sciences, Iran

POSTER SESSION 15:55–17:20

in the hall

Saturday, June 30

MORNING SESSION 09:00–12:35

Chairman: Mikhail Vasiliev

- 09:00–09:55** *Infinite symmetric group, two-dimensional simplicial bordisms, and Feynman diagrams.*
Yurii NERETIN, Institute for Theoretical and Experimental Physics, Russia
- 10:00–10:40** *Ginibre and interpolating ensembles as special solutions of integrable hierarchies.*
Alexander ORLOV, Laboratory of Nonlinear Wave Processes, P.P. Shirshov Institute of Oceanology, Russia
- 10:40–11:10** Coffee break
- 11:10–11:35** *Unduloid-Like Equilibrium Shapes of Carbon Nanotubes Subjected to Hydrostatic Pressure.*
Ivãilo MLADENOV, Bulgarian Academy of Sciences, Bulgaria
- 11:40–12:05** *The Gauge Principle in Two-Dimensional Conformal Field Theory.*
Rafał SUSZEK, Katedra Metod Matematycznych Fizyki, Uniwersytet Warszawski, Poland
- 12:10–12:35** *Liouville theory, $N=2$ gauge theories and accessory parameters.*
Marcin PIĄTEK, Uniwersytet Szczeciński, Poland

AFTERNOON SESSION 14:30–17:50

Chairman: Alexandre Odesski

- 14:30–14:55** *On Bogomolny decomposition and some solutions of some Skyrme-like models.*
Łukasz STĘPIEŃ, Uniwersytet Pedagogiczny w Krakowie, Poland
- 15:00–15:25** *Four boson interaction process in quantum optics.*
Jan SMOTLACHA, České Vysoké Učení Technické v Praze, Czech Republic
- 15:30–15:55** *Lie algebras as symmetry algebras of a system of ODEs.*
Dalibor KARÁSEK, České Vysoké Učení Technické v Praze, Czech Republic
- 15:55–16:25** Coffee break
- 16:25–16:50** *Poisson sigma models as constrained Hamiltonian systems.*
Ivo PETR, České Vysoké Učení Technické v Praze, Czech Republic
- 16:55–17:20** *Some Aspects of Poisson–Lie T-Duality.*
Vojtěch ŠTĚPÁN, České Vysoké Učení Technické v Praze, Czech Republic