

Sunday, June 29

MORNING SESSION 09:00–12:30

Chairman: S.T. Ali

- 09:00–09:10** Opening
- 09:10–10:05** *Flexible polyhedra in spaces of constant curvature*
Alexander GAYFULLIN, Steklov Mathematical Institute, Russia
- 10:10–11:05** *Lax-Darboux scheme*
Alexander MIKHAILOV, University of Leeds, United Kingdom
- 11:05–11:35** Coffee break
- 11:35–12:30** *Dynamical systems in certain problems in number theory*
Nikolay MOSHCHEVITIN, Moscow Lomonosov State University, Russia

AFTERNOON SESSION 14:20–17:05

Chairman: A. Mikhailov

- 14:30–15:10** *Structure of invertible Darboux transformations*
Ekaterina SHEMYAKOVA, State University of New York at New Paltz, USA
- 15:15–15:55** *Lax operator algebras and gradings on semi-simple Lie algebras*
Oleg SHEINMAN, Steklov Mathematical Institute, Russia
- 15:55–16:25** Coffee break
- 16:25–17:05** *Lie superalgebras of Krichever-Novikov type*
Martin SCHLICHENMAIER, University of Luxembourg, Luxembourg

Monday, June 30

MORNING SESSION 09:00–12:35

Chairman: S. Paycha

- 09:00–09:55** *On the origin of higher braces*
Martin MARKL, Mathematical Institute of the Academy, Czech Republic
- 10:00–10:55** *The BV formalism for L_∞ -algebras and quantum ∞ -groups*
Alexander VORONOV, University of Minnesota / Kavli IPMU / IHES, USA
- 10:55–11:25** Coffee break
- 11:25–12:05** *Consistent interactions and involution*
Simon LYAKHOVICH, Tomsk State University, Russia
- 12:10–12:35** *L_∞ algebras from multicontact geometry*
Luca VITAGLIANO, Università degli Studi di Salerno, Italy

AFTERNOON SESSION 14:30–16:50

Chairman: A. Voronov

- 14:30–15:10** *Peierls' brackets in non-Lagrangian field theory*
Alexey SHARPOV, Tomsk State University, Russia
- 15:15–15:55** *On n -ary analogue of Lie (super)algebras*
Elizaveta VISHNYAKOVA, University of Luxembourg, Luxembourg
- 15:55–16:25** Coffee break
- 16:25–16:50** *On volumes of classical supermanifolds*
Theodore VORONOV, University of Manchester, United Kingdom

Tuesday, July 1

MORNING SESSION 09:00–12:05

Chairman: K. Mackenzie

- 09:00–09:55** *Normal Forms in Poisson Geometry and Lie Groupoid Theory (part 1)*
Rui Loja FERNANDES, University of Illinois at Urbana-Champaign, USA
- 10:00–10:40** *Poisson and Fourier transforms for tensor products*
Vladimir MOLCHANOV, Derzhavin Tambov State University, Russia
- 10:40–11:10** Coffee break
- 11:10–11:35** *Stability of higher derivative dynamics*
Dmitry KAPARULIN, Tomsk State University, Russia
- 11:40–12:05** *Bundle-theoretic methods for higher-order variational calculus*
Mikołaj ROTKIEWICZ, Instytut Matematyczny Polskiej Akademii Nauk, Poland

AFTERNOON SESSION 14:30–16:50

Chairman: J. Rembieliński

- 14:30–14:55** *Towards nonlinear quantum information geometric foundations of quantum theory*
Ryszard KOSTECKI, Perimeter Institute for Theoretical Physics, Canada
- 15:00–15:25** *Supersymmetric vector coherent states for systems with Zeeman coupling and spin-orbit interactions*
Mahouton Norbert HOUNKONNOU, University of Abomey-Calavi, Benin
- 15:25–15:55** Coffee break
- 15:55–16:20** *Coherent States on Discrete Spaces*
Goce CHADZITASKOS, České Vysoké Učení Technické v Praze, Czech Republic
- 16:25–16:50** *On (a, b, c) -derivations of Jordan algebras*
Petr NOVOTNY, České Vysoké Učení Technické v Praze, Czech Republic

Wednesday, July 2

MORNING SESSION 09:00–12:50

Chairman: S. Nemirovski

- 09:00–09:55** *Traces on the noncommutative torus*
Sylvie PAYCHA, Universität Potsdam, Germany
- 10:00–10:55** *Measuring noncommutative spaces: the metric*
Andrzej SITARZ, Uniwersytet Jagielloński, Poland
- 10:55–11:25** Coffee break
- 11:25–12:20** *Normal Forms in Poisson Geometry and Lie Groupoid Theory (part 2)*
Rui Loja FERNANDES, University of Illinois at Urbana-Champaign, USA
- 12:25–12:50** *Algebroids associated to the groupoid of partially invertible elements of W^* -algebra*
Aneta SLIŻEWSKA, Uniwersytet w Białymstoku, Poland

Thursday, July 3

MORNING SESSION 09:00–12:35

Chairman: A. Sergeev

- 09:00–09:55** *Contact topology on spaces of light rays*
Stefan NEMIROVSKI, Steklov Mathematical Institute, Russia
- 10:00–10:55** *Normal Forms in Poisson Geometry and Lie Groupoid Theory (part 3)*
Rui Loja FERNANDES, University of Illinois at Urbana-Champaign, USA
- 10:55–11:25** Coffee break
- 11:25–11:50** *Deformation Quantization of Gauge theories with Separation of Variables*
Akifumi SAKO, Tokyo University of Science, Japan
- 11:55–12:35** *Gap probabilities and Riemann-Hilbert problems in determinantal random point processes with or without outliers*
Marco BERTOLA, Concordia University, Canada

AFTERNOON SESSION 14:30–16:30

Chairman: M. Bertola

- 14:30–15:10** *On bounded solutions of differential equation on the line*
Anatolij ANTONEVICH, Uniwersytet w Białymstoku, Poland
- 15:10–15:35** Coffee break
- 15:35–16:00** *Integrable systems of Neumann type*
Alina DOBROGOWSKA, Uniwersytet w Białymstoku, Poland
- 16:05–16:30** *Lie bundle of deformed skew-symmetric matrices*
Tomasz GOLIŃSKI, Uniwersytet w Białymstoku, Poland

POSTER SESSION 16:30–17:30

in the hall upstairs

Friday, July 4

AFTERNOON SESSION 14:30–16:10

Chairman: A. Yoshioka

- 14:30–15:10** *Nonlinear gauge transformations and the "hydrodynamical" formulation of quantum mechanics*
Gerald GOLDIN, Rutgers University, USA
- 15:15–15:40** *Hidden Lorentz symmetry of the Hořava-Lifshitz gravity*
Jakub REMBIELIŃSKI, Uniwersytet Łódzki, Poland
- 15:45–16:10** *On some quaternionic coherent states and wavelets*
Syed Twareque ALI, Concordia University, Canada

Special economics session 16:30–17:30

Chairman: B. Mielnik

- 16:30–16:45** *From Nicolas Copernicus economical law up to the modern disasters*
Bogdan MIELNIK, CINVESTAV, Mexico
- 16:50–17:30** *Is economics in crisis? Some remarks on the state of economic theory in the face of the post 2008 crisis*
Łukasz HARDT, Uniwersytet Warszawski, Poland

Saturday, July 5

MORNING SESSION 09:00–12:50

Chairman: G. Goldin

- 09:00–09:55** *A representation theoretic perspective on reflection positivity*
Karl-Hermann NEEB, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- 10:00–10:55** *Spectral Singularities, Unidirectional Invisibility, and Dynamical Formulation of One-Dimensional Scattering Theory*
Ali MOSTAFAZADEH, Koç University, Turkey
- 10:55–11:25** Coffee break
- 11:25–12:05** *Matrix beta-integrals*
Yurii NERETIN, Institute for Theoretical and Experimental Physics, Russia
- 12:10–12:50** *Star function, example and application*
Akira YOSHIOKA, Tokyo University of Science, Japan

AFTERNOON SESSION 14:30–17:30

Chairman: Yu. Neretin

- 14:30–15:25** *Differential equations on complex manifolds*
Anton SAVIN, Peoples Friendship University of Russia, Russia
- 15:30–15:55** *Quantum Difference-Differential Equations*
Andreas RUFFING, Technische Universität München, Germany
- 15:55–16:20** Coffee break
- 16:20–16:45** *Some properties of solution of Volterra difference equations*
Ewa SCHMEIDEL, Uniwersytet w Białymstoku, Poland
- 16:50–17:30** *On moduli space of Yang-Mills gauge fields on R^4*
Armen SERGEEV, Steklov Mathematical Institute, Russia