

Sunday, June 30

MORNING SESSION 09:00–12:35

Chairman: Gerald Goldin

- 09:00–09:15** Opening
- 09:15–10:10** *A Hurwitz theory avatar of open-closed strings.*
Sergey NATANZON, Higher School of Economics, Russia
- 10:15–11:10** *Amplifying quantum information.*
Giulio CHIRIBELLA, Tsinghua University, China
- 11:10–11:40** Coffee break
- 11:40–12:35** *Stochastic dynamics of the Lie algebra of Poisson brackets in the vicinity of discontinuity points of Hamiltonian systems.*
Mikhail ZELIKIN, Moscow State University, Russia

AFTERNOON SESSION 14:15–17:20

Chairman: Wojciech Wojtyński

- 14:30–15:10** *Actions of Poisson groups and Lie bialgebras.*
Kirill MACKENZIE, University of Sheffield, United Kingdom
- 15:15–15:40** *Algebra of densities.*
Theodore VORONOV, University of Manchester, United Kingdom
- 15:40–16:10** Coffee break
- 16:10–16:50** *Operator pencils on densities.*
Hovhannes KHUDAVERDIAN, University of Manchester, United Kingdom
- 16:55–17:20** *About classification of complex supermanifolds.*
Elizaveta VISHNYAKOVA, Université du Luxembourg, Luxembourg

Monday, July 1

MORNING SESSION 09:00–13:05

Chairman: Sergey Natanzon

- 09:00–09:55** *Matrix models, topological recursion and Givental theory.*
Sergey SHADRIN, Universiteit van Amsterdam, The Netherlands
- 10:00–10:55** *Solving quantum Liouville theory using topological recursion.*
Leonid CHEKHOV, Loughborough University, United Kingdom
- 10:55–11:25** Coffee break
- 11:25–12:20** *Quantum resonances: theory and models.*
Manuel GADELLA, University of Valladolid, Spain
- 12:25–13:05** *A simple construction of integrable Whitham type hierarchies.*
Alexandre ODESSKI, Brock University, Canada

AFTERNOON SESSION 15:00–18:00

Chairman: Mikhail Zelikin

- 15:00–15:40** *The equation $H(x, y, \text{grad } y) = f$.*
Serguei SAMBORSKI, Université de Caen Basse-Normandie, France
- 15:45–16:10** *Factorization of Darboux transformations of arbitrary order for two-dimensional Schrödinger operator.*
Ekaterina SHEMYAKOVA, State University of New York at New Paltz, USA
- 16:10–16:35** Coffee break
- 16:35–17:00** *Aspects of the quantum separation of variables for the Toda chain.*
Karol KOZŁOWSKI, Institut de Mathématiques de Bourgogne, France
- 17:05–17:30** *On geodesic and holomorphically projective mappings.*
Josef MIKEŠ, Univerzita Palackého v Olomouci, Czech Republic
- 17:35–18:00** *Geodesic mappings of (pseudo-)Riemannian manifolds preserve class of differentiability.*
Irena HINTERLEITNER, Vysoké učení technické v Brně, Czech Republic

Tuesday, July 2

MORNING SESSION 09:00–13:00

Chairman: Martin Schlichenmaier

- 09:00–09:05** Opening
- 09:05–10:00** *Altneuland in mathematical particle physics: back to the drawing board??*
Daniel STERNHEIMER, Rikkyo University (Tokyo) & Université de Bourgogne, France
- 10:05–11:00** *Complex-time flows in geometric quantization.*
William KIRWIN, Universität zu Köln, Germany
- 11:00–11:30** Coffee break
- 11:30–12:25** *The Weil algebra of a general Hopf algebra.*
Giovanni LANDI, Università di Trieste, Italy
- 12:30–13:00** *Star products, star exponentials and applications.*
Akira YOSHIOKA, Tokyo University of Science, Japan

AFTERNOON SESSION 14:55–17:40

Chairman: S. Twareque Ali

- 15:00–15:30** *Some naturally defined star products for Kähler manifolds.*
Martin SCHLICHENMAIER, Université du Luxembourg, Luxembourg
- 15:35–16:05** *Toeplitz quantization with non-commuting symbols.*
Stephen SONTZ, Centro de Investigación en Matemáticas, Mexico
- 16:05–16:35** Coffee break
- 16:35–17:05** *On deformation quantisation.*
Pierre BIELIAVSKY, Université Catholique de Louvain, Belgium
- 17:10–17:40** *The deformation quantizations of the Hermitian symmetric space $SU(1, n)/U(n)$.*
Stéphane KORVERS, Université Catholique de Louvain, Belgium

Wednesday, July 3

MORNING SESSION 09:00–12:50

Chairman: Alexandre Odesski

- 09:00–09:55** *On knots, super-A-polynomial, and BPS states.*
Piotr SUŁKOWSKI, Uniwersytet Warszawski & Caltech, Poland/USA
- 10:00–10:55** *Frobenius algebras, KdV hierarchies and minimal Liouville gravity.*
Alexander BELAVIN, Landau Institute for Theoretical Physics RAS, Russia
- 10:55–11:25** Coffee break
- 11:25–11:50** *Difference Sturm–Liouville operators in imaginary direction.*
Yurii NERETIN, Institute for Theoretical and Experimental Physics, Russia
- 11:55–12:20** *Geometric algebra study of $N = 2$ M-theory compactifications to AdS_3 .*
Ioana-Alexandra COMAN, “Horia Hulubei” National Institute of Physics and Nuclear Engineering, Romania
- 12:25–12:50** *Geometric algebra, Fierz identities and supergravity.*
Elena Mirela BABALIC, “Horia Hulubei” National Institute of Physics and Nuclear Engineering, Romania

Thursday, July 4

MORNING SESSION 09:00–12:35

Chairman: Yurii Neretin

- 09:00–09:55** *Complex hulls of the one-sheeted hyperboloid, analytic continuation of spherical functions, and Plancherel formula.*
Vladimir MOLCHANOV, Derzhavin Tambov State University, Russia
- 10:00–10:55** *Magnetic coherent states.*
Radu PURICE, “Simion Stoilow” Institute of Mathematics of the Romanian Academy, Romania
- 10:55–11:25** Coffee break
- 11:25–12:05** *Categories of C^* -algebras with crossed product.*
Stanisław Lech WORONOWICZ, Instytut Matematyki, Uniwersytet w Białymstoku, Poland
- 12:10–12:35** *Right-sided hyperbolic operators.*
Anatolij ANTONEVICH, Instytut Matematyki, Uniwersytet w Białymstoku, Poland

AFTERNOON SESSION 15:00–17:30

Chairman: Ivaïlo Mladenov

- 15:00–15:40** *Towards Lie theory of diffeomorphism groups.*
Wojciech WOJTYŃSKI, Uniwersytet Warszawski, Poland
- 15:45–16:10** *Bound states and scattering for nonselfadjoint Schrödinger operator.*
Stanislav STEPIN, Instytut Matematyki, Uniwersytet w Białymstoku, Poland
- 16:10–16:35** Coffee break
- 16:35–17:00** *Line bundle twisted chiral de Rham complex and bound states of D -branes on toric manifolds.*
Sergei PARKHOMENKO, L.D. Landau Institute for Theoretical Physics, Russia
- 17:05–17:30** *Diffeomorphism groups of non-compact orbifolds.*
Alexander SCHMEDING, Universität Paderborn, Germany

Friday, July 5

AFTERNOON SESSION 14:30–17:50

Chairman: Gijs Tuynman

- 14:30–14:55** *Fourier transforms of E-functions of $O(5)$ and $G(2)$.*
Jiří HRIVNÁK, České Vysoké Učení Technické v Praze, Czech Republic
- 15:00–15:25** *C-orbit function and image filtering.*
Goce CHADZITASKOS, České Vysoké Učení Technické v Praze, Czech Republic
- 15:30–15:55** *Planar motion of charged particles in a magnetic dipole field.*
Ivailo MLADENOV, Bulgarian Academy of Sciences, Bulgaria
- 15:55–16:25** Coffee break
- 16:25–16:50** *States in the phase space formulation of quantum mechanics.*
Jaromir TOSIEK, Politechnika Łódzka, Poland
- 16:55–17:20** *N points star product: construction and integral representation.*
Mahouton Norbert HOUNKONNOU, University of Abomey-Calavi, Republic of Benin
- 17:25–17:50** *Geometry of stochastic matrices and the underlying symmetries.*
Radhakrishnan NAIR, University College Trivandrum, India

POSTER SESSION 16:25–17:50

in the hall upstairs

Saturday, July 6

MORNING SESSION 09:00–12:30

Chairman: Stephen Sontz

- 09:00–09:55** *Semiclassical spectral asymptotics for magnetic Schrödinger operators.*
Yuri KORDYUKOV, Institute of Mathematics, Ufa Scientific Center of RAS, Russia
- 10:00–10:40** *Nonlinear conformal-invariant electrodynamics in $(4 + 2)$ -dimensional spacetime.*
Gerald GOLDIN, Rutgers University, USA
- 10:40–11:05** Coffee break
- 11:05–11:30** *Integrable systems related to deformed $so_{\lambda, \alpha}(5)$.*
Alina DOBROGOWSKA, Instytut Matematyki, Uniwersytet w Białymstoku, Poland
- 11:35–12:00** *Groupoids related to W^* -algebra.*
Aneta SLIŻEWSKA, Instytut Matematyki, Uniwersytet w Białymstoku, Poland
- 12:05–12:30** *Quantum mechanics and geometry on Siegel–Jacobi disk.*
Stefan BERCEANU, “Horia Hulubei” National Institute of Physics and Nuclear Engineering, Romania

AFTERNOON SESSION 15:00–17:20

Chairman: Kirill Mackenzie

- 15:00–15:25** *On geometry of higher-order Euler–Lagrange equations.*
Michał JÓŹWIKOWSKI, Instytut Matematyczny Polskiej Akademii Nauk, Poland
- 15:30–15:55** *Higher algebroids and reductions of higher tangent bundles.*
Mikołaj ROTKIEWICZ, Instytut Matematyczny Polskiej Akademii Nauk, Poland
- 15:55–16:25** Coffee break
- 16:25–16:50** *The Hamiltonian?*
Gijs TUYNMAN, Université de Lille I, France
- 16:55–17:20** *Icecream and parasites.*
Bogdan MIELNIK, CINVESTAV, Mexico