

Sunday, June 30

MORNING SESSION 09:00–12:15

Chairman: Gerald Goldin

- 09:00–09:10** Opening
- 09:10–10:05** *Sato Grassmannian approach to degenerations of tau functions*
Atsushi NAKAYASHIKI, Tsuda University, Japan
- 10:05–10:35** Coffee break
- 10:35–11:30** *Imaginary time Hamiltonian flows and applications to Quantization, Kahler geometry and representation theory*
José MOURÃO, Instituto Superior Técnico, Portugal
- 11:35–12:15** *Rank one transformations of measure spaces*
Yury NERETIN, Pauli Institute, Russia

AFTERNOON SESSION 14:30–16:50

Chairman: Luis M. Nieto

- 14:30–14:55** *Parity-time symmetry in supersymmetric quantum mechanics: An interplay between Riccati, Ermakov and Schrodinger equations*
Oscar ROSAS-ORTIZ, CINVESTAV, Mexico
- 15:00–15:25** *Laguerre–Gaussian optical beams as boson realizations of either $SU(1,1)$ or $SU(2)$ groups*
Pedro Raúl JIMÉNEZ MACÍAS, CINVESTAV, Mexico
- 15:25–15:55** Coffee break
- 15:55–16:20** *Phase space representation of a quantum particle with discrete internal degrees of freedom*
Jaromir TOSIEK, Łódź University of Technology, Poland
- 16:25–16:50** *2-hom-associative bialgebras and hom-left symmetric dialgebras*
Mahouton Norbert HOUNKONNOU, University of Abomey-Calavi, Benin

Monday, July 1

MORNING SESSION 09:00–12:20

Chairman: Gustavo Corach

- 09:00–09:55** *Circle and sphere bundles in noncommutative geometry*
Francesca ARICI, Max Planck Institute for Mathematics in the Sciences, Germany
- 10:00–10:55** *On C^* -completions of discrete quantum group rings*
Adam SKALSKI, Polish Academy of Sciences, Poland
- 10:55–11:25** Coffee break
- 11:25–11:50** *On classical and deformed Hopf fibrations*
Tomasz BRZEZIŃSKI, Uniwersytet w Białymstoku / Swansea University, Poland / United Kingdom
- 11:55–12:20** *On differential operators in noncommutative geometry.*
Andrzej SITARZ, Jagiellonian University, Poland

AFTERNOON SESSION 14:30–16:50

Chairman: Jakub Rembieliński

- 14:30–14:55** *Area Formula for Graph Surfaces in sub-Lorentzian Geometry*
Maria KARMANOVA, Sobolev Institute of Mathematics / Novosibirsk State University, Russia
- 15:00–15:25** *Graphene dots via discretizations of Weyl-orbit functions*
Jiří HRIVNÁK, Czech Technical University in Prague, Czech Republic
- 15:25–15:55** Coffee break
- 15:55–16:20** *Entangled bipartite qubit systems coupled to photon baths: in search of the master equation*
Claudia QUINTANA, CINVESTAV, Mexico
- 16:25–16:50** *Hermitian–Einstein metrics from noncommutative $U(1)$ solutions*
Kentaro HARA, Tokyo University of Science, Japan

Tuesday, July 2

MORNING SESSION 09:00–12:20

Chairman: Andrei Mironov

- 09:00–09:55** *Algebraic geometric aspects of Isomonodromic Deformations: Helix structures in Quantum Cohomology of Fano Varieties*
Giordano COTTI, Max-Planck-Institut für Mathematik, Germany
- 10:00–10:55** *Quiver varieties and integrable systems*
Oleg CHALYKH, University of Leeds, United Kingdom
- 10:55–11:25** Coffee break
- 11:25–11:50** *Birkhoff normalization, Bifurcations of Hamiltonian systems and the Deprits formula*
Henryk ŻOŁĄDEK, Uniwersytet Warszawski, Poland
- 11:55–12:20** *On the current algebra representations and quantum many-particle integrable Hamiltonian models*
Anatolij PRYKARPATSKI, Cracow University of Technology, Poland

AFTERNOON SESSION 14:30–17:20

Chairman: Adam Skalski

- 14:30–15:10** *Poincaré disk of a C^* -algebra*
Gustavo CORACH, Instituto Argentino de Matemática, Argentina
- 15:15–15:40** *Banach Poisson–Lie groups*
Barbara TUMPACH, University of Lille, France
- 15:40–16:10** Coffee break
- 16:10–16:35** *On the Finslerian entropy of smooth distributions and Stefan–Sussman foliations*
Fernand PELLETIER, Université de Savoie Mont Blanc, France
- 16:40–17:20** *Stone duality and quasi-orbit spaces for C^* -inclusions*
Bartosz KWAŚNIEWSKI, Uniwersytet w Białymstoku, Poland

Wednesday, July 3

MORNING SESSION 09:00–12:35

Chairman: Alexander Sergeev

- 09:00–09:55** *The Road to the Operator Geometric Mean with Stops Along the Way*
Jimmie LAWSON, Louisiana State University, USA
- 10:00–10:55** *Quantization of subgroups of the affine group*
Sergey NESHVEYEV, University of Oslo, Norway
- 10:55–11:25** Coffee break
- 11:25–12:05** *On Zakrzewski category of groupoids*
Piotr STACHURA, SGGW, Poland
- 12:10–12:35** *Algebraic geometric properties of spectral surfaces of quantum integrable systems and their isospectral deformations*
Alexander ZHEGLOV, Moscow State University, Russia

Thursday, July 4

MORNING SESSION 09:00–12:35

Chairman: Alexander Zheglov

- 09:00–09:55** *Quantum symmetric pairs, cyclotomic KZ-equations, and module categories*
Makoto YAMASHITA, University of Oslo, Norway
- 10:00–10:55** *Supergroup $Osp(2, 2n)$ and super Jacobi polynomials*
Alexander SERGEEV, Saratov State University / Higher School of Economics, Russia
- 10:55–11:25** Coffee break
- 11:25–12:05** *Spin Ruijsenaars–Schneider–Sutherland models from Hamiltonian reduction*
Laszlo FEHER, University of Szeged / Wigner Research Centre for Physics, Hungary
- 12:10–12:35** *On a General Formulation of Classical Nonlinear Lagrangian Electrodynamics with Conformal Symmetry*
Gerald GOLDIN, Rutgers University, USA

AFTERNOON SESSION 14:30–17:20

Chairman: Francesca Arici

- 14:30–14:55** *Fock Quantization of Canonical Transformations and Semiclassical Asymptotics for Degenerate Problems*
Vladimir NAZAIKINSKII, Ishlinsky Institute for Problems in Mechanics RAS, Russia
- 15:00–15:25** *Coherent States for a Toeplitz Quantization of the Manin Plane*
Stephen B. SONTZ, Centro de Investigacion en Matematicas, Mexico
- 15:30–15:55** *Nonlinear coherent states associated with a measure on the positive real half line*
Zouhair MOUAYN, Sultan Moulay Slimane University, Morocco
- 15:55–16:25** Coffee break
- 16:25–16:50** *C^* -algebraic approach to spectral analysis of weighted composition operators*
Krzysztof BARDADYN, Uniwersytet w Białymstoku, Poland
- 16:55–17:20** *Second order difference equations solvable by factorization method*
Alina DOBROGOWSKA, Uniwersytet w Białymstoku, Poland

Friday, July 5

NO MORNING SESSION 09:00–12:20

AFTERNOON SESSION 14:00–16:50

Chairman: Jimmie Lawson

14:00–14:55 *Fukaya category of Landau–Ginzburg model*

Huijun FAN, Peking University, China

15:00–15:55 *On Non-local Modified Gravity*

Zoran RAKIĆ, University of Belgrade, Serbia

15:55–16:25 Coffee break

POSTER SESSION 16:00–17:00

Saturday, July 6

MORNING SESSION 09:00–12:05

Chairman: José Mourão

- 09:00–09:55** *On curves with Poritsky property and Liouville net*
Alexey GLUTSYUK, Ecole Normale Supérieure de Lyon, France
- 09:55–10:25** Coffee break
- 10:25–11:20** *Some recent results on point supported potentials*
Luis M. NIETO, Universidad de Valladolid, Spain
- 11:25–12:05** *Angular billiard*
Andrey MIRONOV, Novosibirsk State University, Russia

AFTERNOON SESSION 14:30–17:05

Chairman: Zoran Rakić

- 14:30–14:55** *The standard groupoid of a von Neumann algebra*
Daniel BELTIȚĂ, Institute of Mathematics "Simion Stoilow" of the Romanian Academy, Romania
- 15:00–15:40** *Quantum system with a dynamical state space and a geometric extension of quantum mechanics*
Ali MOSTAFAZADEH, Koc University, Turkey
- 15:40–16:10** Coffee break
- 16:10–16:35** *Quantum chaos, integrals of tau functions, 2D Y-M and Hurwitz numbers*
Aleksandr ORLOV, Institute of Oceanology / High School of Economics, Russia
- 16:40–17:05** *Symmetries of the space of connections on a principal G -bundle and related symplectic structures*
Grzegorz JAKIMOWICZ, Uniwersytet w Białymstoku, Poland