

# Sunday, July 1

MORNING SESSION 09:00–12:15

Chairman: Armen Sergeev

- 09:00–09:10** Opening
- 09:10–10:05** *Dunkl angular momenta algebra*  
**Misha FEIGIN**, University of Glasgow, United Kingdom
- 10:10–10:50** *Perturbations of the Hess–Appelrot and the Lagrange cases in the rigid body dynamics*  
**Henryk ŻOŁĄDEK**, Uniwersytet Warszawski, Poland
- 10:50–11:20** Coffee break
- 11:20–11:45** *A simple generation of Painlevé V transcendents*  
**David FERNANDEZ**, CINVESTAV, Mexico
- 11:50–12:15** *Chord diagrams, random matrices and Hurwitz numbers*  
**Aleksandr ORLOV**, Institute of Oceanology / High School of Economics, Russia

AFTERNOON SESSION 14:30–17:05

Chairman: Gerald Goldin

- 14:30–15:10** *Short geodesics for Ad invariant metrics in locally exponential Lie groups*  
**Gabriel LAROTONDA**, Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina
- 15:15–15:40** *Essentially commuting projections*  
**Eduardo CHIUMIENTO**, Universidad Nacional de La Plata, Argentina
- 15:40–16:10** Coffee break
- 16:10–16:35** *On the Riemann–Hilbert Problem for difference and  $q$ -difference equations*  
**Ilya VYUGIN**, Institute for Information Transmission Problems RAS, Russia
- 16:40–17:05** *Co-adjoint orbit for Some New Nonlinear Equations*  
**Pinaki PATRA**, Brahmananda Keshab Chandra College, India

# Monday, July 2

MORNING SESSION 09:00–12:15

Session in honour of prof. Daniel Sternheimer

Chairman: Yoshiaki Maeda

- 09:00–09:10** Opening
- 09:10–10:05** *Wheels in deformation quantization*  
**Giuseppe DITO**, Université de Bourgogne, France
- 10:10–11:05** *Conformal field theory, operator algebras and vertex operator algebras*  
**Yasuyuki KAWAHIGASHI**, University of Tokyo, Japan
- 11:05–11:35** Coffee break
- 11:35–12:15** *Deformations, Twists, Frobenius and Lie Algebras*  
**Anthony GIAQUINTO**, Loyola University Chicago, USA

AFTERNOON SESSION 14:30–16:50

Chairman: Gijs Tuynman

- 14:30–14:55** *Quantum Localisation on the Circle*  
**Jean Pierre GAZEAU**, University Paris-Diderot, France
- 15:00–15:25** *Co-Toeplitz Operators and the Corresponding Quantization*  
**Stephen SONTZ**, Centro de Investigacion en Matematicas, Mexico
- 15:25–15:55** Coffee break
- 15:55–16:20** *Deformation quantization with minimal length*  
**Ziemowit DOMAŃSKI**, Poznań University of Technology, Poland
- 16:25–16:50** *On formal deformation quantization for super Calabi–Yau twistor spaces*  
**Yuji HIROTA**, Azabu University, Japan

# Tuesday, July 3

MORNING SESSION 09:00–12:35

Chairman: Misha Feigin

- 09:00–09:55** *On canonical parametrization of phase spaces of Isomonodromic Deformation Equations*  
**Mikhail BABICH**, St. Petersburg Department of the Steklov Mathematical Institute, Russia
- 10:00–10:55** *Around Birkhoff's conjecture for convex and other billiards*  
**Michael BIALY**, Tel Aviv University, Israel
- 10:55–11:25** Coffee break
- 11:25–12:05** *Commuting difference operators*  
**Andrey MIRONOV**, Laboratory of Topology and Dynamics of Novosibirsk State University, Russia
- 12:10–12:35** *Topological analysis of nuclear pasta phases*  
**Radosław KYCIA**, Masaryk University, Czech Republic

AFTERNOON SESSION 14:30–17:30

Chairman: Ulrich Kraehmer

- 14:30–15:10** *Operational calculus for Fourier transform for the group  $GL(2, R)$*   
**Yury NERETIN**, University of Vienna, Austria
- 15:15–15:40** *On the inverse problem in representation theory of nilpotent Lie groups*  
**Daniel BELTIȚĂ**, Institute of Mathematics "Simion Stoilow" of the Romanian Academy, Romania
- 15:45–16:10** *Regular representations of super Lie groups*  
**Gijs TUYNMAN**, Universite de Lille, France
- 16:10–16:35** Coffee break
- 16:35–17:00** *Quasi-nonassociativity from an exceptional spectrum-generating superalgebra*  
**Francesco TOPPAN**, Centro Brasileiro de Pesquisas Fisicas, Brazil
- 17:05–17:30** *Observational consequences of light-like deformations of the Poincaré algebra from (extended) jordanian twist*  
**Zhanna KUZNETSOVA**, Federal University of ABC, Brazil

# Wednesday, July 4

MORNING SESSION 09:00–12:15

Chairman: Yuji Hirota

- 09:00–09:55** *Fundamental groups of the group of diffeomorphisms*  
**Yoshiaki MAEDA**, , Japan
- 10:00–10:55** *Special geometry on the 101 dimensional Moduli space of the Quintic threefold*  
**Alexander BELAVIN**, Landau Institute for Theoretical Physics, Russia
- 10:55–11:20** Coffee break
- 11:20–11:45** *Quantum curves and conformal field theory*  
**Leszek HADASZ**, Uniwersytet Jagielloński, Poland
- 11:50–12:15** *On the geometric structure of the WDVV associativity equations and their solutions*  
**Anatolij PRYKARPATSKI**, Politechnika Krakowska, Poland

# Thursday, July 5

MORNING SESSION 09:00–13:05

Chairman: Tomasz Brzeziński

- 09:00–09:55** *How homogeneous is a quantum homogeneous space*  
**Ulrich KRAEHMER**, Technische Universität Dresden, Germany
- 10:00–10:55** *Quantum lens and weighted projective spaces*  
**Wojciech SZYMAŃSKI**, University of Southern Denmark, Denmark
- 10:55–11:25** Coffee break
- 11:25–12:05**  *$\kappa$ -Poincaré Group on a  $C^*$ -level*  
**Piotr STACHURA**, Warsaw University of Life Sciences, Poland

AFTERNOON SESSION 14:30–16:50

Chairman: Daniel Beltiță

- 14:30–14:55** *The hidden features of the Standard Model from NCG*  
**Andrzej SITARZ**, Uniwersytet Jagielloński, Poland
- 15:00–15:25** *Maximal Abelian Subalgebras of Graph  $C^*$ -algebras*  
**Jeong Hee HONG**, Korea Maritime and Ocean University, South Korea
- 15:25–15:55** Coffee break
- 15:55–16:20** *Cuntz–Krieger uniqueness theorem for Cuntz–Pimsner algebras*  
**Bartosz KWAŚNIEWSKI**, Uniwersytet w Białymstoku, Poland
- 16:25–16:50** *Queer Poisson brackets on Banach manifolds*  
**Tomasz GOLIŃSKI**, Uniwersytet w Białymstoku, Poland

# Friday, July 6

NO MORNING SESSION 09:00–12:20

AFTERNOON SESSION 14:00–16:35

- 14:00–14:40** *Energy carried by gravitational waves*  
**Jerzy KIJOWSKI**, Center for Theoretical Physics, Poland
- 14:45–15:10** *Photon and Preferred Frame Scenario*  
**Jakub REMBIELIŃSKI**, Uniwersytet Łódzki, Poland
- 15:10–15:40** Coffee break

POSTER SESSION 15:40–16:40

# Saturday, July 7

MORNING SESSION 09:00–11:50

Chairman: Andrey Mironov

- 09:00–09:55** *The commuting elements in deformation of Poisson manifolds*  
**Georgy SHARYGIN**, Moscow State University, Russia
- 09:55–10:25** Coffee break
- 10:25–11:20** *Applications of symplectic/contact invariants to conservative dynamics*  
**Miguel ABREU**, University of Lisbon, Portugal
- 11:25–11:50** *Tangent lifts of Poisson structures and their infinitesimal deformations*  
**Grzegorz JAKIMOWICZ**, Uniwersytet w Białymstoku, Poland

AFTERNOON SESSION 14:30–16:50

Chairman: Georgy Sharygin

- 14:30–14:55** *The Shmushkevich method for collisions of particles for higher symmetry groups*  
**Goce CHADZITASKOS**, Czech Technical University in Prague, Czech Republic
- 15:00–15:25** *Hamiltonian dynamics of the Kepler problem in a deformed phase space*  
**Mahouton Norbert HOUNKONNOU**, University of Abomey-Calavi, Benin Republic
- 15:25–15:55** Coffee break
- 15:55–16:20** *Pedal coordinate, dark Kepler and other force problems*  
**Petr BLASCHKE**, Silesian University in Opava, Czech Republic
- 16:25–16:50** *Weighted generalization of the Szegő kernel and its dependence on the weight of integration*  
**Tomasz Łukasz ŻYNDĄ**, Warsaw University of Technology, Poland