

Monday, July 1

MORNING SESSION 09:30–12:30

Chairman: Tomasz Brzeziński

09:00–09:30 Registration

09:30–09:40 Opening

09:40–10:35 *Ergodic theory and topology of nonperiodic tilings and Gibbs states of interacting particles*
Jacek MIĘKISZ, University of Warsaw
Poland

10:35–11:05 Coffee break

11:05–12:00 *Q-manifolds and sigma models*
Noriaki IKEDA, Ritsumeikan University
Japan

12:05–12:30 *On the conformal Lie superalgebras $K(1; N = 1; 2; 3)$, their super-pseudodifferential generalizations and related semi-supersymmetric integrable systems*
Anatolij PRYKARPATSKI, Cracow University of Technology
Poland

Lunch: 12:30–13:30

AFTERNOON SESSION 15:00–16:50

Chairman: Jiří Hrivnák

15:00–15:25 *The Schwarzschild's solution and Mach's principle*
Goce CHADZITASKOS, Czech Technical University in Prague
Czech Republic

15:25–15:55 Coffee break

15:55–16:20 *Geometric flows, entropy, and nonlinear electrodynamics*
Johan Michel CHAVEZ TOVAR, CINVESTAV
Mexico

16:25–16:50 *Pure rotating electromagnetic wormholes*
Leonel DE LA CRUZ BIXANO, CINVESTAV
Mexico

Tuesday, July 2

MORNING SESSION 09:00–11:50

Chairman: Piotr Goldstein

- 09:00–09:55** *Hybrid integrable systems*
Nicolai RESHETIKHIN, Yau Mathematical Sciences Center, Tsinghua University
China
- 09:55–10:25** Coffee break
- 10:25–11:20** *Geometry of quantum entanglement*
Marek KUŚ, Center for Theoretical Physics, Polish Academy of Sciences
Poland
- 11:25–11:50** *Understanding reversals of a Rattleback*
Stefan RAUCH, Linköping University
Sweden
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Lunch: 12:30–13:30

AFTERNOON SESSION 15:00–16:50

Chairman: Vladimir Salnikov

- 15:00–15:25** *Topological freeness and ideals in twisted Banach algebra crossed products*
Bartosz KWAŚNIEWSKI, University of Białystok
Poland
- 15:25–15:55** Coffee break
- 15:55–16:20** *Inverse semigroup Banach algebras*
Krzysztof BARDADYN, University of Białystok
Poland
- 16:25–16:50** *Odd and generalized Wilson surfaces*
Olga CHEKERES, La Rochelle University
France
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17:30 Campfire: Majątek Howieny (by bus from campus)

Wednesday, July 3

MORNING SESSION 09:00–11:50

Chairman: Petr Novotný

09:00–09:55 *Noncommutative geometry, parallel transport and quantum mechanics*
Edwin BEGGS, Swansea University
Wales

09:55–10:25 Coffee break

10:25–11:05 *Variational Principles in Physics*
Jerzy KIJOWSKI, Center for Theoretical Physics, Polish Academy of Sciences
Poland

11:10–11:50 *Quantum Mechanics without Quantization*
Gerald GOLDIN, Rutgers University
USA

12:00 Group photo

Lunch: 12:30-13:30

14:00-18:00 Excursion: walking tour of the city, starting from campus

Thursday, July 4

MORNING SESSION 09:00–11:20

Chairman: Piotr Kielanowski

- 09:00–09:55** *Darboux transformations applied to graphene in external magnetic fields*
David J. FERNÁNDEZ C., CINVESTAV
Mexico
- 09:55–10:25** Coffee break
- 10:25–10:50** *Invariance of the scalar curvature for the noncommutative 2-torus equipped with a perturbed complex structure*
Mahouton Norbert HOUNKONNOU, University of Abomey-Calavi
Benin
- 10:55–11:20** *The algebraic approach to barycentric coordinates*
Anna ZAMOJSKA-DZIENIO, Warsaw University of Technology
Poland
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Lunch: 12:30-13:30

AFTERNOON SESSION 15:00–16:55

Chairman: Johan Michel Chavez Tovar

- 15:00–15:30** **Poster session**
- 15:30–16:00** Coffee break
- 16:00–16:25** *Explicit Formulae for Deformation Quantization with Separation of Variables of $G_{2,4}(\mathbb{C})$*
Taika OKUDA, Tokyo University of Science
Japan
- 16:30–16:55** *Group classification of second-order quasi-linear equations with two independent variables in homogeneous isotropic media*
Dzianis ZHALUKEVICH, University of Białystok
Poland
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18:30-24:00 Conference dinner: restaurant Kawelin, Legionowa 10

Friday, July 5

MORNING SESSION 09:00–12:20

Chairman: Gabriel Larotonda

- 09:00–09:55** *Multisymplectic geometry and dynamics — a case study*
Tilmann WURZBACHER, Universite de Lorraine
France
- 09:55–10:25** Coffee break
- 10:25–11:20** *Realising Quantum Flag Manifolds as Graph C^* -algebras*
Karen STRUNG, Czech Academy of Sciences
Czech Republic
- 11:25–11:50** *Subtleties of Poisson Geometry in infinite dimensions*
Alice Barbara TUMPACH, Wolfgang Pauli Institut / Lille University
Austria
- 11:55–12:20** *Poisson Geometry and related Geometric and Algebraic Structures*
Praful RAHANGDALE, Paderborn University
Germany
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Lunch: 12:30–13:30

AFTERNOON SESSION 15:00–16:50

Chairman: Praful Rahangdale

- 15:00–15:25** *Conjugate points in the Grassmann manifold of a C^* -algebra*
Gabriel LAROTONDA, University of Buenos Aires / CONICET
Argentina
- 15:25–15:55** Coffee break
- 15:55–16:20** *Integrable system related to restricted Grassmannian on partial isometries*
Tomasz GOLIŃSKI, University of Białystok
Poland
- 16:25–16:50** *Geometric approach to the Moore–Penrose inverse and polar decomposition in operator ideals*
Eduardo CHIUMIENTO, University of La Plata / CONICET
Argentina

Saturday, July 6

MORNING SESSION 09:00–12:50

Chairman: Anna Zamojska-Dzienio

- 09:00–09:55** *Multicomponent generalisations of KdV and CH equations*
Alexey BOLSINOV, Loughborough University
United Kingdom
- 09:55–10:25** Coffee break
- 10:25–11:20** *Integrability of classical affine W -algebras*
Daniele VALERI, University of Rome La Sapienza
Italy
- 11:25–11:50** *Variants of asymptotic behaviour in the BKL scenario as described with a quadric of kinetic-energy*
Piotr P. GOLDSTEIN, Theoretical Physics Division, National Centre for Nuclear Research
Poland
- 11:55–12:20** *Approximations to the Wigner function*
Luca CAMPOBASSO, Łódź University of Technology
Poland
- 12:25–12:50** *A new look at Lie algebras*
Alina DOBROGOWSKA, University of Białystok
Poland

Lunch: 13:00-14:00
