

Workshop Programme

Sunday, June 12 — Arrival day

- 19.00–20.00 60' *Registration*
20.30 *Welcome reception*

Monday, June 13

- 08.00–08.50 50' *Registration*
08.50–09.00 10' *Workshop Opening*

Chairperson Roman O. Popovych

- 09.00–09.30 30' **Nikitin A.G.** Classification of superintegrable systems with position dependent mass
09.30–10.00 30' **Quesne C.** Dual quantum nonlinear oscillator and Coulomb problems in multidimensional spaces
10.00–10.30 30' **Spiridonov V.P.** Special functions of mathematical physics: from Newton and Euler to the modern time
10.30–11.00 30' **Vladimirov V.** Solitary waves in the model of active media, taking into account effects of relaxation
11.00–11.30 *Coffee break*

Chairperson Anatoly G. Nikitin

- 11.30–12.00 30' **Natanzon S.** Dispersionless 2D Toda hierarchy, Hurwitz numbers and Riemann theorem
12.00–12.30 30' **Grahovski G.** Yang–Baxter maps for the Grassmann-extended NLS equation
12.30–13.00 30' **Tsyfra I.** On application of nonpoint symmetry method to some nonlinear mathematical physics differential equations
13.00–13.20 20' **Stepanova I.** Group properties of nonlinear heat and mass transfer equations
13.20–13.40 20' **Birtea P.** Optimization on Stiefel manifolds. I
13.40–14.00 20' **Casu I.** Optimization on Stiefel manifolds. II
14.00–17.00 *Lunch break*
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Chairperson Vyacheslav Boyko

- 17.00–17.30 30' **Bibikov P.** On Lie problem and differential invariants of second order equations $y'' = F(x, y)$
- 17.30–18.00 30' **Novotný P.** Twisted cocycles of Lie algebras
- 18.00–18.20 20' **Kotrbatý J.** Lie fields and representations of the Poincaré group
- 18.20–18.40 20' **Buring R.** The explicit associativity mechanism for Kontsevich's star-product up to orders 3 and 4
- 18.40–19.00 20' **Bouisaghouane A.** Do the Kontsevich tetrahedral flows preserve or destroy the space of Poisson bi-vectors?

Tuesday, June 14**Chairperson Pantelis A. Damianou**

- 09.00–09.30 30' **Veselov A.** Burchnall–Chaundy polynomials and Dodgson's condensation method
- 09.30–10.00 30' **Chalykh O.** Hypergeometric adelic Grassmannian and bispectrality
- 10.00–10.30 30' **Fordy A.P.** Krall–Sheffer operators in 2 and 3 dimensions: geometry and polynomial eigenfunctions
- 10.30–11.00 30' **Tongas A.** Functional tetrahedron maps and symmetries of integrable discrete equations of octahedron type
- 11.00–11.30 *Coffee break*
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Chairperson Alexander Veselov

- 11.30–12.00 30' **Xu P.** Symplectic realizations of holomorphic Poisson manifolds
- 12.00–12.30 30' **Androulidakis I.** Almost regular Poisson structures and their holonomy groupoids
- 12.30–13.00 30' **Kassotakis P.** 2^n -rational maps
- 13.00–13.20 20' **Nieszporski M.** From 2^n -rational maps to integrable systems
- 13.20–13.40 20' **Borisov A.** The Kovalevskaya top and its generalizations. I
- 13.40–14.00 20' **Mamaev I.** The Kovalevskaya top and its generalizations. II
- 14.00–17.00 *Lunch break*

Chairperson Allan P. Fordy

- 17.00–17.30 30' **Baran H.** Higher symmetries of cotangent coverings for Lax-integrable multi-dimensional partial differential equations
- 17.30–18.00 30' **Grigoryev Yu.A.** On the separation of variables for the two-dimensional integrable system with velocity-dependent potential
- 18.00–18.20 20' **Motlochová L.** Dual root-lattice discretization of Weyl-orbit functions
- 18.20–18.40 20' **Kurujiyiwami C.** Group classification of multi-dimensional nonlinear Schrödinger equations
- 18.40–19.00 20' **Gromada D.** Orthogonal polynomials and Askey–Wilson algebra
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Wednesday, June 15**Chairperson Maryna Nesterenko**

- 09.00–09.30 30' **Chadzitaskos G.** The Shmushkevich method for higher symmetry groups
- 09.30–10.00 30' **Hrivnák J.** Weight- and coweight-lattice discretization of Weyl-orbit functions
- 10.00–10.30 30' **Grandati Y.** Shape invariance and equivalent mixed Jacobi–Trudi formulas for exceptional orthogonal polynomials
- 10.30–11.00 30' **Atkinson J.** Movable configurations of Pascal lines associated with some discrete integrable systems
- 11.00–11.30 *Coffee break*

Chairperson Vsevolod Vladimirov

- 11.30–12.00 30' **Popovych R.O.** Direct and inverse problems on conservation laws
- 12.00–12.30 30' **Burde G.I.** New types of soliton solutions of some integrable equations via direct methods
- 12.30–13.00 30' **Grigoryev Yu.N.** Method for group classification inhomogeneous equations using the Lie groups admitted by corresponding homogeneous equations
- 13.00–13.30 30' **Nesterenko M.** On realizations of Galilei algebras
- 13.30–14.30 *Lunch break*
- 14.30–14.45 15' *Conference photo*
- 14.45 *Excursion to Nicosia and Conference Dinner*
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Developpements recents en theorie de Lie et en geometrie de Poisson*

Jeudi, Juin 16

09.00–09.30 30' *Ouverture*

Président Pol Vanhaecke

09.30–10.10 40' **Laurent-Gengoux C.** Feuilletages singuliers et cohomologies

10.10–10.50 40' **Ospel C.** Algèbre enveloppante d'algèbre de Poisson et théorème de Poincaré–Birkhoff–Witt

10.50–11.20 40' *Pause café*

Président Camille Laurent-Gengoux

11.20–12.00 40' **Sadaka G.M.** Paires admissibles d'une algèbre de Lie simple complexe et W -algèbres finies

12.00–12.40 40' **Fittouhi Y.** Les subtilités du système de Mumford

12.40–13.20 40' **Vanhaecke P.** 4 familles de systèmes de Lotka–Volterra, leur intégrabilité et leurs discrétisations de Kahan

13.20–17.30 *Pause déjeuner*

Président Cyrille Ospel

17.30–18.10 40' **Evrpidou C.** Coxeter polynomials of affine Lie algebras

18.10–18.50 40' **Petalidou P.** Crochets de Poisson ayant une famille donnée de fonctions en involution

Friday, June 17 — Departure day

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