

Workshop Programme

Sunday, June 6

Arrival day

20.00–21.00 *Registration*

21.30 *Welcome reception*

Monday, June 7

8.30–9.00 *Registration*

Chairperson **A.G. Nikitin**

9.00–9.40 **C. ROGERS** The pulsodion in 2+1-dimensional magnetogasdynamics and Hamiltonian Ermakov reduction

9.40–10.20 **S. ANCO** Group invariant soliton equations and bi-Hamiltonian geometric curve flows in Klein geometry

10.20–11.00 **M.C. NUCCI** The unreasonable effectiveness of Lie symmetries

11.00–11.30 *Coffee break*

Chairperson **M.C. Nucci**

11.30–12.00 **G. CICOGNA** Lambda-symmetries of Dynamical Systems, Hamiltonian and Lagrangian equations

12.00–12.30 **S. GOLOVIN** Natural curvilinear coordinates in MHD. Flows with constant total pressure

12.30–13.00 **V. LAHNO** On realizations of Lie algebras of Poincare group and new Poincare-invariant equations

13.00–13.30 **M. ABD-EL-MALEK** Solution of Burgers' equation with time-dependent kinematic viscosity via Lie-group analysis

13.30–17.00 *Lunch break*

Chairperson **J. Patera**

17.00–17.20 **J. HRIVNAK** Two types of discretization of tori of compact simple Lie groups

17.20–17.40 **M. NESTERENKO** Orthogonal polynomials of compact simple Lie groups

17.40–18.00 **P. NOVOTNY** Generalized derivations, twisted cocycles and invariant functions of Lie algebras

18.00–18.20 **S. POSTA** Comparing three dimensional alternating, symmetric and antisymmetric interpolations

18.20–18.40 **L. MOTLOCHOVA** Orthogonal polynomials of symmetric and antisymmetric generalizations of trigonometric functions

18.40–19.00 **C. ACCATRINEI** A difference equation appearing in noncommutative field theory

Tuesday, June 8

Chairperson P. Damianou

- 9.00–9.40 **T. RATIU** Variational principles in control and template matching
9.40–10.20 **Y. SURIS** On the integrability of Hirota-Kimura discretizations
10.20–11.00 **G. CHADZITASKOS** Three boson interaction Hamiltonian solvable via Krawtchouk polynomials
11.00–11.30 *Coffee break*

Chairperson Y. Suris

- 11.30–12.00 **C. QU** Potential symmetries to nonlinear diffusion equations
12.00–12.30 **I. YEHOARCHENKO** Reduction of multidimensional wave equations to two-dimensional equations: investigation of possible reduced equations
12.30–13.00 **L. HLA VATY** Poisson Lie symmetry and solutions of sigma models
13.00–13.30 **L. SNOBL** Symmetries and invariant solutions of PDEs on superspace
13.30–17.00 *Lunch break*

Chairperson S. Anco

- 17.00–17.20 **R. TRACINÀ** Fundamental solution in classical elasticity via group analysis
17.20–17.40 **S. SPICHAK** Hermitian quasi-exactly and exactly solvable matrix Schrodinger operators
17.40–18.00 **I. STEPANOVA** Equations of vibrational convection in binary mixture: symmetry properties and exact solutions
18.00–18.20 **N. IVANOVA** Group analysis of variable coefficient diffusion-convection equations
18.20–18.40 **A. BIHLO** Symmetry preserving parametrization schemes
18.40–19.00 **C. SARDON** Symmetries and reductions for the Camassa Holm hierarchy in 2+1 dim multisoliton solutions

Wednesday, June 9

Chairperson T. Ratiu

- 9.00–9.40 **A. NIKITIN** Group analysis and exact solutions for equations of axion electrodynamics
9.40–10.20 **R. POPOVYCH** Conservation laws and normal forms of evolution equations
10.20–11.00 **P. LEACH** Lie symmetries and certain equations of financial mathematics
11.00–11.30 *Coffee break*

Chairperson P. Leach

- 11.30–12.00 **G. BURDE** Conformal invariance and partially nonclassical method
12.00–12.30 **A. KISELEV** Variational Lie algebroids
12.30–13.00 **J. POHJANPELTO** Moving frames, symmetries, and reduction of exterior differential systems
13.00–13.30 **V. VLADIMIROV** Localized travelling wave solutions to the time-delayed convection-reaction-diffusion
13.30–14.30 *Lunch break*
14.30 *Excursion to Nicosia*

Thursday, June 10

Departure day