

Workshop Programme

Sunday, October 26

Arrival day

19.00–20.00 *Registration*

Monday, October 27

8.30–9.00 *Registration*

Chairpersons P. Damianou and A.G. Nikitin

9.00–9.40 **G. BLUMAN** Construction of conservation laws: how the direct method generalizes Noether's theorem

9.40–10.20 **P. CLARKSON** Rational solutions of soliton equations and applications to vortex dynamics

10.20–11.00 **R. POPOVYCH** Myths of nonclassical symmetry

11.00–11.30 *Coffee break*

Chairperson P. Leach

11.30–12.10 **J. PATERA** Orbit functions and corresponding Fourier-like transforms

12.10–12.50 **M. NESTERENKO** Orbit functions and classical problems of mathematical physics

12.50–13.30 **V. PAPAGEORGIU** Yang-Baxter maps, dynamical Yang-Baxter maps and integrable lattice equations

13.30–17.00 *Lunch break*

Chairperson P. Clarkson

17.00–17.30 **A. KISELEV** Simple Lie algebras, involutive distributions of operator-valued evolutionary vector fields, and 2D Toda chains

17.30–18.00 **H. BARAN** A (1+1)-dimensional-type recursion operator for a (2+1)-dimensional integrable system

18.00–18.30 **D. DEMSKOI** On recursion operators for elliptic integrable models

18.30–19.00 **P. XENITIDIS** Integrability and symmetries of difference equations: the Adler-Bobenko-Suris case

Tuesday, October 28

Chairperson V. Papageorgiou

9.00–9.40 **P. VANCHAECKE** The geometry of Laurent solutions

9.40–10.20 **H. SABOURIN** Hight-2 Toda Systems

10.20–11.00 **C. DASKALOYANNIS** Quadratic algebras for quadratic superintegrable systems

11.00–11.30 *Coffee break*

Chairperson H. Sabourin

- 11.30–12.00 **A. BORISOV** On new integrable cases in nonholonomic mechanics
12.30–13.00 **V. VLADIMIROV** Compactons in the non-local hydrodynamic-type models
12.00–12.30 **M. GANDARIAS** Hidden and weak symmetries for partial differential equations
13.00–13.30 **I. YEHOCHENKO** Reduction of multidimensional non-linear d'Alembert equations to two-dimensional equations and classes of the reduced equations
13.30–13.40 *Official photo*
13.40–17.00 *Lunch break*

Chairperson M. Torrisi

- 17.00–17.30 **M. BRUZON** Symmetry reductions and exact solutions of Benjamin–Bona–Mahony–Burgers equations
17.30–18.00 **J. PRADA** On linear differential operators: an application of Hermite polynomials
18.00–18.30 **M. RUGGIERI** Symmetries and reduction techniques for dissipative models
18.30–19.00 **G. CHADZITASKOS** Quantization on compact spaces

Wednesday, October 29

Chairperson G. Bluman

- 9.00–9.40 **P. OLVER** Invariant variational problems and invariant flows
9.40–10.20 **P. LEACH** The beloved equation in shallow water
10.20–11.00 **A. NIKITIN** Galilean massless fields
11.00–11.30 *Coffee break*

Chairperson P. Olver

- 11.30–12.00 **P. ESTÉVEZ** Reciprocal transformations for a spectral problem in 2+1
12.00–12.30 **V. BOYKO** Computation of invariants of Lie algebras by means of moving frames
12.30–13.00 **S. SPICHAK** Quasi-linear elliptic equations invariant with respect to five-dimensional solvable Lie algebras
13.00–14.15 *Lunch break*
14.15 *Excursion to Lefcara*

Thursday, October 30

Chairperson C. Sophocleous

- 9.00–9.30 **M. CHRISTOU** Similarity reductions for three-dimensional Burgers equation
9.30–10.00 **N. IVANOVA** Construction of potential systems for systems of PDEs with multi-dimensional spaces of conservation laws
10.00–10.30 **S. KONSTANTINOU-RIZOS** Symmetries of a nonintegrable generalization of KdV
10.30–11.00 **N. KALLINIKOS** Symmetries of 3 d-o-f Hamiltonian systems
13.00 *Departure*