

UNIVERSITY OF CYPRUS



DEPARTMENT OF MATHEMATICS AND STATISTICS

Third Workshop in
Group Analysis of Differential Equations — Integrable Systems
Thursday, 4th & Friday, 5th of October, 2007

Programme

Thursday, 4th of October, 2007

Chairperson: **P.A. Damianou**

10.00–10.45: **A. Nikitin**, Institute of Mathematics of NAS of Ukraine
More on Galilean invariance

10.45–11.15: **C.A. Pallikaros**, University of Cyprus
Symmetric group: subsequences and representations

11.15–11.45: Coffee break

Chairperson: **H. Sabourin**

11.45–12.15: **F. Petalidou**, University of Peloponnese, Greece
On the geometric quantization of twisted Poisson manifolds

12.15–12.45: **A. Tersenov**, Sobolev Institute of Mathematics, Novosibirsk, Russia
Sufficient conditions for nonexistence of gradient blow-up for nonlinear parabolic equations

12.45–13.00: **O. Vaneeva**, Institute of Mathematics of NAS of Ukraine
Group classification via mapping between classes

13.00–13.15: **C. Tsaousi**, University of Cyprus
Differential invariants for n -dimensional hyperbolic equations

Friday, 5th of October, 2007

Chairperson: **A. Nikitin**

10.00–10.45: **H. Sabourin**, Universite de Poitiers, France

Some nice properties of the minimal nilpotent adjoint orbit in a semi-simple Lie algebra

10:45–11:15: **R. Popovych**, Universität Wien, Austria

Potential symmetries of multidimensional equations

11:15–11:45: Coffee break

Chairperson: **N. Ivanova**

11:45–12:15: **Y. Christodoulides**, University of Cyprus

Darboux polynomials and first integrals of Lotka-Volterra systems in three dimensions

12.15–12.45: **M. Christou**, University of Cyprus

Numerical investigation of solitary wave problems in infinity domains

12.45–13.00: **E. Demetriou**, University of Cyprus

Group Analysis of 2+1 and 3+1 Diffusion-Convection Equations

13.00–13.15: **K. Konstandinides**, University of Cyprus

Algebraic integrability of Lotka Volterra equations in three dimensions

13.15–13.30: Discussion

Lectures will take place in the seminar room **B129**, Building Θ EE 2 (Department of Chemistry).