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 ΘEE 2 (Department of Chemistry).