



Krynica, 4 – 10.09.2011

Conference Agenda

Sunday, 4.09.2011

- 16:00 Departure of the conference bus from Kraków (AGH) to Krynica
20:00 Dinner

Monday, 5.09.2011

- 8:30 Breakfast
9:30 **Opening of the Conference**

Session 1, 9:40 - 12:45

Chairman: Roman Popovych

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- 9:40 **Anatoly Nikitin**, *Symmetries and exact solutions of equations of axion electrodynamics*
10:25 **Artur Sergyeyev**, *Recursion operators in any dimension (co-author: M. Marvan)*
11:15 Coffee break
11:35 **Maxim Pavlov**, *Linearly degenerate hydrodynamic type systems and new solutions of the associativity system (co-author: B. Dubrovin)*
12:20 **Yuri Karadzhov**, *Matrix superpotentials*
13:00 Lunch

Session 2, 15:30 - 18:05

Chairman: Robert Kersner

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- 15:30 **Piotr Zgliczyński**, *Rigorous, computer assisted proofs in the dynamics of dissipative PDE's: Heteroclinic connections between fixed points for Kuramoto-Sivashinski PDE*
16:20 Coffee break
16:40 **Alexander Makarenko**, *Anticipatory systems: models and applications*
17:25 **Vsevolod Vladimirov**, *On the stability of traveling wave solutions to generalized convection-reaction-diffusion equation (co-author: C. Mączka)*
18:30 Dinner

Tuesday, 6.09.2011

8:30 Breakfast

Session 3, 9:30 - 12:15**Chairman: Anatoly Nikitin**9:30 **Roman Popovych**, *Algebraic method of group classification of differential equations*10:15 **Elena Meshcheryakova**, *Group analysis and exact solutions to the incompressible visco-elastic Maxwell medium equations*

10:40 Coffee break

11:00 **Ivan Tsyfra**, *On Application of Group of Equivalence Transformations to Neutron Diffusion Problem*11:45 **Ekaterina Kutafina**, *Conservation laws for a certain Hamiltonian system*

13:00 Lunch

Session 4, 15:30 - 18:10**Chairman: Vsevolod Vladimirov**15:30 **Mohammed Guedda**, *Coarsening in an interfacial equation without slope selection revisited: Analytical results*16:15 **Robert Kersner**, *A hyperbolic system in heat propagation theory*

16:40 Coffee break

17:00 **Brian Gilding**, *The Riemann problem for a forward-backward parabolic equation*17:45 **Gabriella Bognár**, *On Marangoni convection over a vertical plate*

18:30 Dinner

Wednesday, 7.09.2011

8:30 Breakfast

9:30 Trip - Dunajec river rafting

18:00 Dinner (with a glass of wine)

Thursday, 8.09.2011

8:30 Breakfast

Session 5, 9:30 - 12:30**Chairman: Mohammed Guedda**9:30 **Henryk Leszczyński**, *Useful transforms in certain three component diffusion models?*
(co-authors: M. Danielewski, A. Majewski, K. Szyszkiewicz-Warzecha)10:15 **Lucjan Sapa**, *Estimates of solutions and applications to difference methods*

10:45 Coffee break

11:05 **Anna Szafrńska**, *Implicit difference methods for infinite systems of quasilinear hyperbolic functional differential equations on the Haar pyramid*11:35 **Jerzy Stochel**, *On κ -roots of Stieltjes moment sequences* (co-author: J. Stochel)12:05 **Maria Malejki**, *Asymptotics formulae for eigenvalues of unbounded Jacobi Matrices*

13:00 Lunch

Session 6, 15:30 - 17:55**Chairman: Henryk Leszczyński**15:30 **Sergey Lazarenko**, *About a few weak anticipatory systems* (co-author A. Makarenko)16:00 **Sergii Skurativskiyi**, *Instability of localized wave solutions of a model for the medium of complex structure*

16:30 Coffee break

16:50 **Agnieszka Kowalik**, *The note on the groups of homeomorphisms* (co-author: T. Rybicki)17:20 **Ilona Michalik**, *On the universal coverings of the diffeomorphism group* (co-author: J. Lech)

18:30 Dinner

Friday, 9.09.2011

8:30 Breakfast

Session 7, 9:30 - 12:15**Chairman: Maxim Pavlov**9:30 **Vladimir Rosenhaus**, *On differential systems with infinite conservation laws*10:15 **Valeriy Stogniy**, *Group classification of the generalized Kramers equation (co-authors: V. Lagno, M. Kuvika)*

10:40 Coffee break

11:00 **Sergey Zykov**, *Symmetry analysis and hydrodynamical reductions of the Skyrme-Faddeev model (co-authors: L. Martina, M. Pavlov)*11:30 **Maria Elaeva**, *Mathematical modelling of capillary zone electrophoresis: methods of analyzing nonlinear waves and their interactions*12:00 **Closing of the Conference**

13:00 Lunch

19:00 Dinner

Saturday, 10.09.2011

8:30 Breakfast

9:30 Departure of the conference bus from Krynica to Kraków