

# FOURTH INTEGRABILITY SYMPOSIUM

Zielona Góra, Poland, May 30–31, 2011

Faculty of Physics and Astronomy, Prof. Szafrana 4a, lecture hall 106

Monday, May 30, 2011

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## *Morning session*

- 9.00–9.45 M. BŁASZAK (Poznań): **Interacting solitons**  
9.45–10.30 Z. POPOWICZ (Wrocław): **Scalar Lax pair for generalized Riemann equation**  
10.30–11.00 Z. DOMAŃSKI (Poznań): **Unitary coordinate transformations in quantum mechanics**

## *Coffe Break*

- 11.15–12.00 A. SERGYEYEV (Opava): **Recursion operators for dispersionless systems in multidimensions: the Manakov–Santini system and beyond**  
12.00–12.30 A. DOBROGOWSKA (Białystok): **Integrable systems related to Euclidean and Poincare groups**  
12.30–13.00 MACIEJ NIESZPORSKI (Warszawa): **On some equations compatible around the cube**  
13.00–14.00 *Lunch*

## *Afternoon session*

- 14.00–14.45 A. V. YUROV (Kaliningrad): **On the Cardy-Verlinde formula**  
14.45–15.15 B. SZABLIKOWSKI (Poznań): **Some method for the construction of Frobenius type manifolds related with the Lax representations of hydrodynamic systems**

## *Coffee break*

- 15.30–16.00 A. A. YUROVA (Kaliningrad): **Some results on (1+2) nonlinear integrable equations**  
16.00–16.30 G. KWIATKOWSKI (Gdańsk): **Riemann Zeta function in Feynmann integral theory and quasiclassical quantization of solitons**  
16.30–17.00 V. A. YUROV (Kaliningrad): **Generalized Evans function and the continuous spectrum**  
17.00–17.30 D. KARGAPOLOV (Kaliningrad): **An integrable case of the Schrodinger matrix equation for multilevel quantum systems**

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*Morning session*

- 9.00–9.45 K. MARCINIAK (Linköping): **Stäckel separable systems and soliton equations**  
9.45–10.15 J. CIEŚLIŃSKI (Białystok): **Pseudospherical surfaces, Darboux-Bäcklund transformations and the sine-Gordon equation on time scales**  
10.15–10.45 M. MARVAN (Opava): **Minimal set of compatibility conditions and diffieties**

*Coffee break*

*Pay attention that this session is held exceptionally in lecture hall 301*

- 11.00–11.45 A. PRYKARPATSKY (Kraków): **A vertex operator solution to a Riemann type hydrodynamical hierarchy**  
11.45–12.15 P. DIDKOWSKIJ (Kaliningrad): **About explicit solutions of finite Toda lattice**  
12.15–13.00 T. COMBOT (Paris): **Non integrability with non zero angular momentum. Application to the  $n$  body problem**  
13.00–14.00 *Lunch*

*Afternoon session*

- 14.00–14.30 A. MACIEJEWSKI (Zielona Góra): **Higher order variational equations and integrability**  
14.30–15.00 M. PRZYBYLSKA (Zielona Góra): **Differential Galois integrability obstructions for non-homogeneous potentials**

*Coffee break*