

PROGRAMME
„8th Symposium on Integrable Systems”
July 3-4, 2015, University of Łódź

July 3, 2015, Friday

8.50 – Opening

Session 1, 9.00-10.40, Chairman: Sergey Leble

9.00-9.25 - Maciej Błaszak (Adam Mickiewicz University, Poznań, Poland), Classical and quantum ODE's in Hamiltonian mechanics

9.25-9.50 - Jan Dereziński (University of Warsaw, Poland), Homogeneous Schrödinger operators on half-line

9.50-10.15 - Ziemowit Domański (Center for Theoretical Physics of the Polish Academy of Sciences, Warsaw, Poland), Various quantizations and related pseudo-probabilistic distribution functions

10.15-10.40 - Grzegorz Kwiatkowski (Gdańsk University of Technology, Poland), Semiclassical corrections to energy in explicitly finite domains

10.40-11.05 COFFEE BREAK

Session 2, 11.05-12.20, Chairman: Maciej Błaszak

11.05-11.30 - Krzysztof Marciniak (Linköping University, Sweden), Minimal separable quantizations of Stäckel systems

11.30-11.55 - Marek Kuś (Center for Theoretical Physics of the Polish Academy of Sciences, Warsaw, Poland), Quantum SU(3) systems: integrability, quantum chaos, classical limit(s), and experimental realizations

11.55-12.20 - Piotr Goldstein (National Centre for Nuclear Research, Świerk, Poland), On integrability of the one-dimensional Vlasov equation

12.20-12.45 COFFEE BREAK

Session 3, 12.45-14.00, Chairman: Maciej Dunajski

12.45-13.10 - Andrzej J. Maciejewski (University of Zielona Góra, Poland), Non-integrability of the optimal control problem for n-level quantum systems

13.10-13.35 - Wojciech Szumiński (University of Zielona Góra, Poland), Non-integrability of restricted double pendula

13.35-14.00 - Yves Brihaye (University of Mons, Belgium), Hairy spinning black holes

14.00-15.30 **LUNCH TIME**

Session 4, 15.30-17.10, Chairman: Andrzej J. Maciejewski

15.30-15.55 - Adam Doliwa (University of Warmia and Mazury in Olsztyn, Poland), Yang-Baxter maps with non-commuting variables

15.55-16.20 - Tomasz Brzeziński (Swansea University, United Kingdom), Rota-Baxter systems and Yang-Baxter pairs: Four equations in search of a model

16.20-16.45 - Błażej Szablikowski (Adam Mickiewicz University, Poznań, Poland), From Rota-Baxter identity to integrable systems

16.45-17.10 - Cornelia Schiebold (Mid Sweden University, Sweden), Banach space geometry and construction of solutions by limiting processes

17.10-17.30 **COFFEE BREAK**

Session 5, 17.30-19.10, Chairman: Maria Przybylska

17.30-17.55 - Marek Czachor (Gdańsk University of Technology, Poland), Relativity of arithmetics as a fundamental symmetry of physics

17.55-18.20 - Michal Marvan (Silesian University in Opava, Czech Republic), An integrable class of Chebyshev nets

18.20-18.45 - Maciej Nieszporski (University of Warsaw, Poland), In the zoo of discrete integrable systems

18.45-19.10 - Artur Kobus (Bialystok University of Technology, Poland), Metric properties of scators

19.30 CONFERENCE DINNER

July 4, 2015, Saturday

Session 6, 9.00-10.40, Chairman: Marek Kuś

9.00-9.25 - Maciej Dunajski (University of Cambridge, United Kingdom), Quartics, sextics, and an integrable ODE

9.25-9.50 - Maria Przybylska (University of Zielona Góra, Poland), Dynamics of a relativistic charge in classical Penning trap and Penning trap with inclined magnetic field

9.50-10.15 - Jan L. Cieśliński (University of Białystok, Poland), Exact discretizations and locally exact numerical schemes

10.15-10.40 - Artur Sergyeyev (Silesian University in Opava, Czech Republic), New hierarchies of (3+1)-dimensional integrable systems related to contact geometry

10.40-11.05 COFFEE BREAK

Session 7, 11.05-12.45, Chairman: Ziemowit Popowicz

11.05-11.30 - Sergey Leble (Gdańsk University of Technology, Poland), Generalized Burgers equations and Miura Map in nonabelian rings as integrable systems

11.30-11.55 - Yuriy Sydorenko (Ivan Franko National University of Lviv, Ukraine), Darboux transformations for (2 + 1)-dimensional extensions of the KP hierarchy

11.55-12.20 - Volodimir Simulik (The National Academy of Sciences of Ukraine, Ukraine), Relativistic description of the spin $s=3/2$ particle-antiparticle doublet interacting with electromagnetic field

12.20-12.45 - Wojciech Kryński (University of Warsaw, Poland), Families of integrable distributions and differential equations

12.45-14.00 LUNCH TIME

Session 8, 14.00-15.40, Chairman: Adam Doliwa

14.00-14.25 - Ziemowit Popowicz (University of Wrocław, Poland), Double extended peakon equations

14.25-14.50 - Adam Szereszewski (University of Warsaw, Poland), 4-dimensional binary metrics

14.50-15.15 - Makar Plakhotnyk (Taras Shevchenko National University of Kyiv, Ukraine), On the topological conjugation of interval maps by a piecewise linear homeomorphism

15.15-15.40 - Maciej Kuna (Gdańsk University of Technology, Poland), Construction of exact solutions of nonlinear and time dependent von Neumann equation by Darboux transformation

15.40-17.00 –FAREWELL COFFEE BREAK, DISCUSSION, OPEN PROBLEMS