FACULTY OF PHYSICS
AND APPLIED INFORMATICS
University of Lodz

Patronage of Rector
of University of Lodz

PROGRAMME
„14th Symposium on Integrable Systems”
June 3-4, 2022

June 3, 2022, Friday

9.15-9.25 – Opening

Session 1, 9.25-10.55, Chairman: Adam Doliwa

9.25-9.50 - Błażej Szablikowski (Adam Mickiewicz University Poznań, Poland), “Stäckel representations of stationary systems of KdV hierarchy and its coupled generalizations”

9.50-10.20 - Maciej Błaszak (Adam Mickiewicz University Poznań, Poland), “Miura maps for Stäckel systems”

10.20-10.55 - Anatolij Prykarpatski (AGH University of Science and Technology, Poland), “Dark dynamical systems: their integrability aspects and applications”

10.55-11.25 COFFEE BREAK

Session 2, 11.25-13.05, Chairman: Andrzej Maciejewski

11.25-11.55 - Stefan Rauch (Linköping University, Sweden), „When knowledge of one integral of motion is sufficient for integrability?”

11.55-12.30 - Thierry Combot (Université de Bourgogne, France), “How to integrate an integrable 2 degrees of freedom Hamiltonian?”

12.30-13.05 - Adam Doliwa (University of Warmia and Mazury in Olsztyn, Poland), "Non-commutative Hermite-Padé approximation and integrability"

13.05-13.25 COFFEE BREAK

Session 3, 13.25-14.50, Chairman: Maciej Błaszak

13.25-13.55 - Pavel Holba (Silesian University in Opava, Czech Republic), "On Local Conservation Laws for Generalized Cahn-Hilliard-Kuramoto-Sivashinsky Equation"

13.55-14.25 - Andrzej Maciejewski (University of Zielona Góra, Poland), "Non-integrability of the planar elliptic restricted three body problem"

14.25-14.50 - Marzena Szajewska (University of Bialystok, Poland), "Polyhedra Vibrations"

14.50-16.15 LUNCH TIME

Session 4, 16.15-17.55, Chairman: Stefan Rauch

16.15-16.40 - Elwira Wawreniuk (University of Bialystok, Poland), "Integrable Hamiltonian systems on the symplectic realizations of e(3)*"

16.40-17.05 - Wojciech Szumiński (University of Zielona Góra, Poland), "Double swinging Atwood's machine – from hyperchaos to superintegrability"

17.05-17.30 - Bartosz Maciej Zawora (University of Warsaw, Poland), "Angular potentials in superintegrable models on spaces of constant curvature"

17.30-17.55 - Alina Dobrogowska (University of Bialystok, Poland), "Tangent lifts of bi-Hamiltonian structures"

17.55-18.10 COFFEE BREAK

On-line Session 5, 18.10-19.30, Chairman: Krzysztof Marciniak

18.10-18.35 - Michał Alfred Grundland (Université de Montréal, Canada), "Mutiple Riemann Waves"

18.35-19.00 - Jakub Vašíček (Silesian University in Opava, Czech Republic), "On Hamiltonian structures for WDVV equations"

19.00-19.30 - Artur Sergyeyev (Silesian University in Opava, Czech Republic), "Recursion operators for multidimensional integrable PDEs"

19.45-22.30 CONFERENCE DINNER

June 4, 2022, Saturday

Session 6, 9.30-10.55, Chairman: Maciej Dunajski

9.30-9.55 - Dzianis Zhalukevich (University of Bialystok, Poland), "Spectral parameter as a group parameter. Old and new special cases"

9.55-10.20 - Jan Cieśliński (University of Bialystok, Poland), "Discrete gradient numerical methods for Hamiltonian and dissipative dynamical systems"

10.20-10.55 - Maria Przybylska (University of Zielona Góra, Poland), "Integrability of Hamiltonian systems with gyroscopic term"

10.55-11.15 COFFEE BREAK

Session 7, 11.15-12.45, Chairman: Maria Przybylska

11.15-11.40 - Ewa Czuchry (National Centre for Nuclear Research, Poland), "Improved procedure of semi-classical quantisation of 3-particles Toda lattice"

11.40-12.15 - Javier de Lucas Araujo (University of Warsaw, Poland), "A time-dependent energy-momentum method"

12.15-12.45 - Piotr Goldstein (National Centre for Nuclear Research, Poland), "Detailed description of the BKL asymptotics of Einstein's equations near cosmological singularity"

12.45-13.05 COFFEE BREAK

Session 8, 13.05-14.50, Chairman: Javier de Lucas Araujo

13.05-13.30 - Maciej Dunajski (University of Cambridge, United Kingdom), "Conformal geodesics can not spiral"

13.30-14.00 - Krzysztof Marciniak (Linköping University, Sweden), "Minimal quantization of Painlevé-type systems"

14.00-14.25 - Ziemowit Domański (Poznan University of Technology, Poland), "Deformation quantization on the cotangent bundle of a Lie group"

14.25-14.50 - Andriy Panasyuk (University of Warmia and Mazury in Olsztyn, Poland), "Webs, Nijenhuis operators, and heavenly equations"

14.50-16.00 –FAREWELL COFFEE BREAK, DISCUSSION, OPEN PROBLEMS