

Local and Nonlocal Geometry of PDEs and Integrability: Program

Monday, 8 October

- 8:45 - 9:00 *Opening*

Chairman: Vladimir Rubtsov

- 9:00 - 9:45 Dmitri Alekseevsky - *Shortest and straightest geodesics of an invariant sub-Riemannian metric on a flag manifold*
- 9:50 - 10:35 Pavel Bibikov - *Differential invariants and representations of semisimple algebraic groups*
- 10:40 - 10:55 ☕ *Coffee break*
- 10:55 - 11:40 Valentin Lychagin - *On classification of the second order differential operators and differential equations*
- 11:45 - 12:30 Valery Yumaguzhin - *Classification of 3rd-order linear differential equations*
- 12:35 - 12:55 Aleksei Ivanov - *Complex invariant Einstein metrics on flag manifolds with T -root system BC_2*

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- 13:00 - 14:00 🍽️ *Lunch*

Chairman: Hovhannes Khudaverdian

- 14:00 - 14:45 Maxim Grigoriev - *Gauge PDE and AKSZ sigma models*
- 14:50 - 15:35 Alexander Verbovetsky - *Nonlocal Jacobi identity: a geometric approach*
- 15:40 - 15:55 ☕ *Coffee break*
- 15:55 - 16:40 Michal Marvan - *On symmetries of the Gibbons-Tsarev equation*
- 16:45 - 17:30 Vladimir Chetverikov - *Invertible linear ordinary differential operators and their generalizations*
- 17:35 - 17:55 Nina Khor'kova - *Integrability and infinite hierarchies of symmetries or conservation laws*

Tuesday, 9 October

Chairman: Gerard Helminck

- **9:00 - 9:45** Maciej Dunajski - Solitons on Wormholes
 - **9:50 - 10:35** Sergey Agafonov - Hexagonal geodesic 3-webs
 - **10:40 - 10:55** ☕ *Coffee break*
 - **10:55 - 11:40** Maxim Pavlov - Integrability of the Gibbons-Tsarev system
 - **11:45 - 12:30** Matteo Casati - A Darboux-Getzler theorem for scalar difference Hamiltonian operators
 - **12:35 - 12:55** Petr Vojčák - Coverings and nonlocal symmetries of Lax-integrable PDEs
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- **13:00 - 14:00** 🍽️ *Lunch*
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Chairman: Michal Marvan

- **14:00 - 14:45** Andrey Mironov - Integrable magnetic geodesic flows on 2-torus
- **14:50 - 15:35** Alexey Samokhin - Nonlinear waves in layered media: solutions of the KdV-Burgers equation
- **15:40 - 15:55** ☕ *Coffee break*
- **15:55 - 16:40** Giorgio Tondo - Beyond recursion operators: Haantjes algebras
- **16:45 - 17:30** Jan Slovák - Traces of Tractor Calculus in Sub-Riemannian Geometry
- **17:35 - 17:55** Jakub Vašíček - Symmetries and conservation laws for a generalization of Kawahara equation

Wednesday, 10 October

Chairman: Igor Khavkine

- **9:00 - 9:45** Boris Kruglikov - Integrability via Geometry
 - **9:50 - 10:35** Yvette Kosmann-Schwarzbach - Brackets and torsions
 - **10:40 - 10:55** ☕ *Coffee break*
 - **10:55 - 11:40** Giovanni Manno - Projective symmetries and superintegrable metrics
 - **11:45 - 12:05** Michael Roop - Thermodynamics of submerged jets: exact solutions of the Navier-Stokes equations
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- **12:10 - 13:30** 🍽️ *Lunch*
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- **13:30 - 20:00** *Excursion*

Thursday, 11 October

Chairman: Boris Kruglikov

- **9:00 - 9:45** Andrei Marshakov - q -difference Painleve equations: symmetries and solutions
 - **9:50 - 10:35** Luigi Martina - Symmetries of asymptotically flat spaces and gravitational memory effect
 - **10:40 - 10:55** ☕ *Coffee break*
 - **10:55 - 11:40** Igor Khavkine - Compatibility complexes for the Killing equation
 - **11:45 - 12:30** Hovhannes Khudaverdian - Homotopy Poisson brackets and thick morphisms
 - **12:35 - 12:55** Stanislav Opanasenko - Generalized symmetries and conservation laws of (1+1)-dimensional Klein-Gordon equation
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- **13:00 - 14:00** 🍽️ *Lunch*
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Chairman: Maxim Pavlov

- **14:00 - 14:45** Gerard Helminck - A construction of solutions of the strict n -component KP-hierarchy
- **14:50 - 15:35** Folkert Müller-Hoissen - Tropical limit of soliton solutions, Yang-Baxter maps and beyond
- **15:40 - 15:55** ☕ *Coffee break*
- **15:55 - 16:40** Francesco Oliveri - Lie remarkable systems of PDEs characterized by affine and projective transformations
- **16:45 - 17:30** Ugo Bruzzo - Cohomology of Lie algebroids on schemes and applications
- **19:30** 🍽️ *Conference Dinner*

Friday, 12 October

Chairman: Andrey Mironov

- **9:00 - 9:45** Alexei Kushner - Anisotropic multi-phase filtration: geometrical approach
- **9:50 - 10:10** Matteo Gorgone - Approximate Conditional Symmetries of PDEs
- **10:15 - 11:00** Raffaele Vitolo - Projective-geometric aspects of WDVV equations
- **11:00** Closing