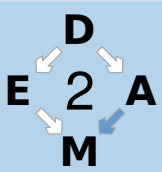


Differential Equations by Algebraic Methods

Schedule

	Wednesday 9 th February	Thursday 10 th February	Friday 11 th February
8:30–10:00		Session 4 E. Mansfield T. Nunes-Goncalves J. Llibre (Chair: J.-F. Pommaret)	Session 8 T. Cluzeau A. Quadrat J.-F. Pommaret (Chair: E. Mansfield)
10:00–10:30	<i>Opening ceremony</i>	<i>Coffee break</i>	<i>Coffee break</i>
10:30–12:00	Session 1 J. Middeke A. Korporal M. Rosenkranz (Chair: F. Winkler)	Session 5 M. Barkatou C. El Bacha G. Labahn (Chair: J. Middeke)	Session 9 F. Schwarz L. X. C. Ngô C. G. Raab (Chair: G. Labahn)
12:00–14:00	<i>Lunch break</i>	<i>Lunch break</i>	<i>Lunch break</i>
14:00–15:30	Session 2 S. Tsarev A. Levin E. Shemyakova (Chair: Z. Li)	Session 6 X.-S. Gao S. Rueda Z. Li (Chair: F. Schwarz)	
15:30–16:00	<i>Coffee break</i>	<i>Coffee break</i>	
16:00–17:30	Session 3 M. Giesbrecht V. Levandovskyy D. Andres A. Heinle (Chair: X.-S. Gao)	Session 7 W. Plesken D. Robertz F. Anritter (Chair: A. Levin)	



Talk titles

1. D. Andres: *Challenging Bernstein-Sato polynomials and B-functions.*
2. F. Antritter: *Computing π -flat outputs of linear control systems with delays.*
3. M. Barkatou: *Removing Apparent Singularities of Systems of Linear Differential Equations with Rational Function Coefficients.*
4. T. Cluzeau: *Serre's Reduction of Linear Partial Differential Systems with Holonomic Adjoints.*
5. C. El Bacha: *An algorithm for computing simple forms of first-order linear differential systems.*
6. X.-S. Gao: *Differential Chow Form and Differential Resultant.*
7. M. Giesbrecht: *Provably Fast Algorithms for Canonical Forms of Matrices of Ore Polynomials.*
8. A. Heinle: *New factorization algorithm in the first (q -)Weyl algebra.*
9. A. Korporal: *Generalized LODE Boundary Problems and Green's Operators.*
10. G. Labahn: *On Simultaneous Row and Column Reduction of Higher-Order Linear Differential Systems.*
11. V. Levandovskyy: *Constructive D -module theory and applications.*
12. A. Levin: *Invariants of Difference Field Extensions.*
13. Z. Li: *On the structure of compatible rational functions.*
14. J. Llibre: *Results and open problems on the algebraic limit cycles of polynomial vector fields in \mathbb{R}^2 .*
15. E. Mansfield: *Pseudogroups, their invariants, and Noether's second theorem.*
16. J. Middeke: *Adapting the FGLM-algorithm for conversion between Hermite and Popov normal forms of differential operator matrices.*
17. L. X. C. Ngô: *Solving some parametrizable ODEs of order 1 by parametrization.*
18. T. Nunes-Goncalves: *Symbolic methods for solving $SE(3)$ Symmetric variational problems.*
19. W. Plesken: *Linear differential elimination for analytic functions.*
20. J.-F. Pommaret: *Spencer Operator and Macaulay Inverse System: A New Approach To Control Identifiability and Other Engineering Applications.*
21. A. Quadrat: *Triangularization of general linear systems of partial differential equations based on pure differential modules.*
22. C. G. Raab: *Integration of Liouvillian Functions.*
23. D. Robertz: *Nonlinear differential elimination for analytic functions.*
24. M. Rosenkranz: *Partial Results for Partial Integro-Differential Operators.*
25. S. Rueda: *Implicitization of linear DPPEs by perturbed differential resultants.*
26. F. Schwarz: *Solving Linear Inhomogeneous Differential Equations.*
27. E. Shemyakova: *X - And Y -invariants for Linear Partial Differential Operators in the Plane.*
28. S. Tsarev: *Structure of the lattice of right divisors of a LODO.*