

Functional Equations in LIMoges 2015

Monday, March 23, 2015 - Wednesday, March 25, 2015

XLIM, University of Limoges, Faculty of Sciences and Techniques

Scientific Program

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Session Chairs</div>

Monday, March 23

Morning session: Alexander Prokopenya

Afternoon session: Évelyne Hubert

Tuesday, March 24

Morning session: Sergei Abramov

Afternoon session: Eckhard Pfluegel

Wednesday, March 25

Morning session: Georg Regensburger

Afternoon session: Alban Quadrat

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Program</div>

Monday, March 23

9h00 - 9h15

Welcome

9h15 - 10h15

Werner Seiler: Geometric Singularities of Algebraic Differential Equations

10h15 - 10h45

Coffee break, Discussions

10h45 - 11h15

Jorge Mozo Fernández: Polynomial asymptotics and summability

11h15 - 11h45

Eckhard Pfluegel: Pseudo-Linear Matrix Transformation Techniques and Applications to Cryptography

11h45 - 12h15

Jean-Claude Yakoubsohn: A numerical study for the Newton method in the singular case

12h15 - 14h00

Lunch break

14h00 - 15h00

Peter Olver: Algebras of Differential Invariants

15h00 - 15h30

Coffee break, Discussions

15h30 - 16h00

Loïc Teysier: Computing Dessins d'Enfants

16h00 - 16h30

Juan Viu Sos: On the geometry of line arrangements and polynomial vector fields

16h30 - 17h00

Yacine Bouzidi: Algebraic techniques for testing the structural stability of multidimensional systems

Tuesday, March 24

9h00 - 10h00

Frédéric Chyzak: Hypergeometric generating series for small-step walks in the quarter plane

10h00 - 10h30

Coffee break, Discussions

10h30 - 11h00

Marko Petkovšek: On d'Alembertian and Liouvillian Sequences

11h00 - 11h30

Charlotte Hulek: On the analytic reduction of singularly perturbed differential equations

11h30 - 12h00

Maximilian Jaroschek: Formal Reduction of a Class of Pfaffian Systems in Several Variables

12h00 - 14h00

Lunch break

14h00 - 15h00

Georg Regensburger: Positive steady states and solutions of polynomial systems with real exponents

15h00 - 15h30

Coffee break, Discussions

15h30 - 16h00

Frédéric Pierret: Modeling and Scale dynamics

16h00 - 16h30

Alban Quadrat: A constructive algebraic analysis approach to Artstein's reductions

20h00 -

Dinner

Wednesday, March 25

9h00 - 10h00

Camilo Sanabria: Classifying Standard Equations

10h00 - 10h30

Coffee break, Discussions

10h30 - 11h00

Thomas Dreyfus: Isomonodromic deformation for Fuchsian q -difference equations and confluence.

11h00 - 11h30

Thierry Combot: Fast computation of Liouvillian solutions of difference equations

11h30 - 12h00

Roman N. Lee: Factoring out parameter dependence in linear differential systems

12h00 - 14h00

Lunch break

14h00 - 14h30

Islam Boussaada : Tracking the algebraic multiplicity of crossing imaginary roots for time-delay systems: A functional confluent Vandermonde-based framework

14h30 - 15h00

Sergei Abramov: The EG-family of algorithms and procedures for solving linear differential and difference higher-order systems

15h00 - 15h30

Alexander Prokopenya: Quantum Algorithm for Phase Estimation: Simulation with Wolfram Mathematica

15h30 -

Coffee break, Discussions