

Functional Equations in LIMoges 2016

Tuesday 29 March 2016 - Thursday 31 March 2016

XLIM, University of Limoges, Faculty of Sciences and Techniques

Scientific Programme

Session Chairs

Tuesday, March 29

9h00-12h00 Session: F. Chyzak

14h30-15h30 Session: G. Chèze

16h00-17h30 Session: C. Mitschi

Wednesday, March 30

9h00-12h00 Session: M. Barakat

16h30-18h00 Session: D. Robertz

Thursday, March 31

9h00-12h00 Session: A. Quadrat

14h30-16h00 Session: S. Abramov

Tuesday, March 29

8h45-9h00

Welcome

9h00-9h50

George Labahn: Rational Invariants of Finite Abelian Groups and their applications

10h00-10h30

Coffee break, Discussions

10h30-10h55

Alban Quadrat: An algebraic analysis approach to linear systems of differential time-varying delay equations

11h00-11h25

Islam Boussaada: Multiplicity and stable manifolds of Time-delay systems: A missing Link

11h30-11h55

Yacine Bouzidi: Computer algebra methods for the stability analysis of differential systems with commensurate time-delays

12h00-14h30

Lunch break

14h30-14h55

Philippe Dumas: Fast computation of the Nth term of an algebraic series in positive characteristic

15h00-15h25

Tristan Vaccon: On p-adic differential equations with separation of variables

15h30-16h00

Coffee break, Discussions

16h00-16h25

Thierry Combot: Integrability of the one dimensional Schroedinger equation

16h30-16h55

Thomas Dreyfus: Towards an algorithm to compute the differential Galois group

17h00-17h25

Thomas Cluzeau: Computing the Lie algebra of the differential Galois group of a linear differential system

Wednesday, March 30

9h00-9h50

Vladimir Bavula: The algebras of polynomial integro-differential operators, their ideals and automorphisms

10h00-10h30

Coffee break, Discussions

10h30-10h55

Clemens Raab: A tensor approach to operator algebras

11h00-11h25

Jamal Hossein Poor: Tensor representation of the algebra of integro-differential operators with linear substitutions

11h30-11h55

Anton Panferov: Linear differential-algebraic systems with selected unknowns

12h00-14h30

Lunch break

14h30-16h00

Excursion: Visit of the Museum of Fine Arts

16h00-16h30

Coffee break, Discussions

16h30-16h55

Frédéric Chyzak: Computing solutions of linear Mahler equations

17h00-17h25

Louis Dumont: Efficient Algorithms for Mixed Creative Telescoping

17h30-17h55

Georg Grasegger: Rational General Solutions of First-Order Algebraic ODEs - Existence and Computation

20h00-

Dinner

Thursday, March 31

9h00-9h50

Mohamed Barakat: Programming abstract mathematics

10h00-10h30

Coffee break, Discussions

10h30-10h55

François Ollivier: Matrices extatiques et calcul de sorties linéarisantes rationnelles

11h00-11h25

Jordy Palafox: Isochronous center and correction of vector fields

11h30-11h55

Sergei Abramov: On the unimodularity testing for operator matrices

12h00-14h30

Lunch break

14h30-14h55

Michel Petitot: Stochastic Petri nets and computer algebra

15h00-15h25

Sergey Paramonov: On some algorithmically undecidable problems connected with partial differential equations

15h30-16h00

Changgui Zhang: An analytic viewpoint on mock theta functions of Ramanujan

16h00-

Coffee break, Discussions