Program of the 9th edition of the conference

Functional Equations in LIMoges FELIM 2016

March 29-31, 2016

Organised by

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Salle de Conférences XLIM 3

Sponsored by

XLIM & Département Mathématiques et Informatique & Région Limousin









FELIM 2016, Functional Equations in LIMoges

Tuesday, March 29

8:45-9:00	Welcome
Chair: F. Chyza	ak
$\begin{array}{c} 9:00\text{-}9:50 \\ applications \end{array}$	George Labahn: Rational Invariants of Finite Abelian Groups and their
10:00-10:30	Coffee break, Discussions
10:30-10:55 differential time-	Alban Quadrat: An algebraic analysis approach to linear systems of varying delay equations
$11:00\text{-}11:25\\ tems:\ A\ missing$	Islam Boussaada: Multiplicity and stable manifolds of Time-delay sys- Link
11:30-11:55 differential system	Yacine Bouzidi: Computer algebra methods for the stability analysis of ms with commensurate time-delays
12:00-14:30	Lunch break
Chair: G. Chèze	e
14:30-14:55 series in positive	Philippe Dumas: Fast computation of the Nth term of an algebraic echaracteristic
15:00-15:25 $variables$	Tristan Vaccon : On p-adic differential equations with separation of
15:30-16:00	Coffee break, Discussions
Chair: C. Mitso	chi
$16:00\text{-}16:25\\equation$	Thierry Combot: Integrability of the one dimensional Schroedinger
$16:30\text{-}16:55 \\ Galois\ group$	Thomas Dreyfus: Towards an algorithm to compute the differential
17:00-17:25 group of a linear	Thomas Cluzeau: Computing the Lie algebra of the differential Galois differential system

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Wednesday, March 30

Chair : M. Bara	kat	
9:00-9:50 Vladimir Bavula: The algebras of polynomial integro-differential operators, their ideals and automorphisms		
10:00-10:30	Coffee break, Discussions	
10:30-10:55	Clemens Raab: A tensor approach to operator algebras	
11:00-11:25 differential opera	Jamal Hossein Poor: Tensor representation of the algebra of integrotors with linear substitutions	
$11:30\text{-}11:55\\unknowns$	Anton Panferov: Linear differential-algebraic systems with selected	
12:00-14:30	Lunch break	
14:30-16:00	Excursion: visit of the Museum of Fine Arts	
16:00-16:30	Coffee break, Discussions	
Chair: D. Robe	rtz	
16:30-16:55	Frédéric Chyzak: Computing solutions of linear Mahler equations	
17:00-17:25	Louis Dumont: Efficient Algorithms for Mixed Creative Telescoping	
17:30-17:55 ODEs - Existence	Georg Grasegger: Rational General Solutions of First-Order Algebraic e and Computation	
20:00-	Dinner	

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Thursday, March 31

Chair : A. Quae	drat
9:00-9:50	Mohamed Barakat: Programming abstract mathematics
10:00-10:30	Coffee break, Discussions
10:30-10:55 $ration nelles$	François Ollivier: Matrices extatiques et calcul de sorties linéarisantes
11:00-11:25	Jordy Palafox: Isochronous center and correction of vector fields
11:30-11:55	Sergei Abramov: On the unimodularity testing for operator matrices
12:00-14:30	Lunch break
Chair : S. Abra	mov
14:30-14:55	Michel Petitot: Stochastic Petri nets and computer algebra
15:00-15:25 Sergey Paramonov : On some algorithmically undecidable problems connected with partial differential equations	
15:30-16:00 Ramanujan	Changgui Zhang: An analytic viewpoint on mock theta functions of
16:00- C	offee break, Discussions