FELIM 2010 Functional Equations in LIMoges

Program: Monday 8 march

- 9h30-10h15: Welcome - Coffee

- 10h15-11h05: **Alexander Prokopenya**: Symbolic Methods in Studying Linear Hamiltonian Systems of Differential Equations with Periodic Coefficients

- 11h25-12h00: **Dzmitry Budzko**: Studying the Stability of Equilibrium Solutions in the Planar Restrictive Four-Body Problem

- Lunch

- 14h30-15h05: **Marko Petkovsek**: Polynomial Ring Automorphisms, Rational (w,sigma)-canonical Forms and the Assignment Problem

- 15h10-15h45: **Shaoshi Chen**: Complexity of the Creative Telescoping for Bivariate Rational Functions

- Tea, Discussions

- 16h45-17h20: **Amel Gheffar & Sergei Abramov**: Valuations of rational solutions of linear difference equations at irreducible polynomials

- 17h25-18h: **Eckhard Pfluegel**: A Monomial-by-Monomial Method for Computing Regular Solutions of Systems of Pseudo-Linear Equations

FELIM 2010 Functional Equations in LIMoges

Program: Tuesday 9 march

- 9h-9h50: **George Labahn**: Normal Forms of Matrices of Differential Operators

- Coffee, Discussions

- 10h25-11h: **Carole El Bacha**: Simultaneously Row- and Column-Reduced Higher-Order Linear Differential Systems

- 11h05-11h40: **Manuel Kauers**: The Polynomial Growth of an Operator Ideal

- Lunch

- 14h00-14h35: **Loic Teyssier**: Analytical Normal Forms for Convergent Holomorphic Saddle-Node Vector Fields in the Complex Plane

- 14h40-15h15: **Françoise Jung**: Convergent and Divergent Series, Solutions of the Prolate Spheroidal Differential Equation

- 15h20-15h55: **Jacques-Arthur Weil**: Reduced Forms for Linear Differential Systems: a Constructive Approach

- Tea

- Discussions