



# Computer Algebra and Differential Equations

Limoges, March 24-25, 2009

Program of the conference

## Tuesday march 24



9h30-10h15: Welcome – Coffee

10h15-11h05: **Alban Quadrat**: On Serre's reduction of linear functional systems

11h25-12h00: **Primitivo Acosta Humanez**: Algebrization of Differential equations: implementation and applications

*Lunch*

14h-14h50: **Jorge Mozo**: Formes normales formelles-asymptotiques des solutions de certaines équations linéaires singulièrement perturbées

15h-15h35: **Ainhoa Aparicio Monforte**: Algorithms on Symplectic Linear Differential Systems with applications to Integrability

*Tea, Discussions*

16h00-16h50: **Sergei Abramov**: On m-Interlacing Solutions of Linear Difference Equations

17h00-17h35: **Christophe Chabot**: Quasi-cyclic codes on rings of matrices

## Wednesday march 25

9h-9h50: **Mark van Hoeij**: Liouvillian Solutions of Irreducible Linear Difference Equations

10h-10h35: **Alin Bostan**: The full counting function of Gessel walks is algebraic

*Coffee, Discussions*

11h00-11h35: **Alexandre Benoit**: Chebyshev Expansions for Solutions of Linear Differential Equations

11h45-12h20: **Carole El Bacha**: An algorithm for regular solutions of higher-order linear differential systems

*Lunch*

14h15-15h05: **Marko Petkovsek**: On subholonomic sequences in combinatorial enumeration

15h15-15h50: **Eckhard Pfluegel**: Towards a Local Reduction Algorithm for Linear Systems of Differential-Algebraic Equations

*Tea, Discussions – End of the conference*