

Algorithmes pour les équations différentielles et aux différences

Limoges, Lundi 10 & Mardi 11 Mars 2008

Programme du lundi 10 mars

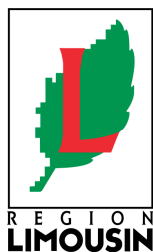
10h00 – 10h30	Accueil – Café
10h30 – 11h05	Évelyne Hubert Algebra and algorithms for differential invariants
11h20 – 11h55	Jean-Yves Enjalbert Combinatoire des systèmes dynamiques avec singularités

Repas

14h00 – 14h50	Sergei Abramov Difference equations with polynomial Coefficients
15h00 – 15h35	Nicolas Le Roux Product of linear differential operators by evaluation and interpolation

Pause Café

16h10 – 16h45	Guillaume Morin Calcul moulien et théorème de Kolmogorov
17h00 – 17h35	Loïc Teyssier Numerical solutions of holomorphic ordinary differential equations in the complex plane : visualisation, computation of invariants and integrability testing
17h45 – 18h20	Sergi Simon Study of the Swinging Atwood Machine through higher variational equations



Algorithmes pour les équations différentielles et aux différences

Limoges, Lundi 10 & Mardi 11 Mars 2008

Programme du mardi 11 mars

9h00 – 9h50 Mark van Hoeij
Solving differential equations in terms of Bessel functions

Pause Café

10h30 – 11h05 Marc Mezzarobba
Bornes sur les suites et fonctions différentiellement finies et évaluation garantie

11h20 – 11h55 Primitivo Acosta
A note about shape invariance potentials and differential Galois theory

Repas

13h30 – 14h20 Eckhard Pfluegel
Linear differential algebraic equations --- Towards effective local reduction methods

14h30 – 15h05 Françoise Jung
Automatic computation of Stokes matrices and application to the graphical representation of solutions of linear ordinary differential equations

15h15 – 15h50 Gary Broughton
The ISOLDE package