



4^{èmes} Journées Approximation
Thursday June 28 and Friday June 29, 2012
Salle de Réunion, Bâtiment M2

Laboratoire Paul Painlevé UMR 8524
Université de Lille 1, FRANCE

The aim of this meeting, the fourth one after similar meetings in 2000, 2002, and 2008, is to bring together people interested in complex approximation theory from France and Belgium, but also from other places.

Thursday

- 9h30 - 10h00 Welcome of participants
- 10h00 - 10h50 Norman Levenberg (Dept. Mathematics, Indiana University, Bloomington): *Large deviation in certain vector energy settings*
- 11h00 - 11h50 Alexander Borichev (Laboratoire d'Analyse, Topologie, Probabilités UMR, Université d'Aix-Marseille): *Two completeness problems in the Paley-Wiener space*
- 12h00 - 13h45 Lunch (Restaurant universitaire Charles Barrois)
- 14h00 - 14h50 Nick Trefethen (Mathematical Institute, University of Oxford): *Highlights of ATAP*
- 15h00 - 15h50 Marc Van Barel (Department of Computer Science, Katholieke Universiteit Leuven): *Orthogonal functions and inverse eigenvalue problems*
- 16h00 - 16h30 Coffee break and Poster session(*)
- 16h30 - 17h00 Lun Zhang (KU Leuven): *Ladder operators and differential equations for multiple orthogonal polynomials*
- 17h00 - 17h30 Maksym Derevyagin (TU Berlin): *From CMV matrices to Jacobi matrices*
- 17h30 - 18h00 Abey Lopez (KU Leuven) : *Multiple orthogonal polynomials arising in the normal matrix model with a quartic potential*

Friday

- 9h00 - 9h50 Guillermo Lopez-Lagomasino (Universidad Carlos III, Madrid): *Direct and inverse results on the convergence of row sequences of Hermite-Padé approximation*
- 10h00 - 10h30 Coffee break
- 10h30 - 11h00 Stanislas Kupin (Universite Bordeaux 1): *On the growth of the polynomial entropy integrals for measures from the Szegő class*
- 11h00 - 11h30 Miroslav Pranic (University of Banja Luka): *Recurrence relations for orthogonal rational functions*
- 11h30 - 12h00 Mirta Castro Smirnova (Universidad de Sevilla): *On a paper by Karlin and McGregor.*
- 12h00 - 13h45 Lunch (Restaurant universitaire Charles Barrois)
- 14h00 - 14h50 Juliette Leblond (APICS, INRIA Sophia Antipolis): *Best approximation in generalized Hardy classes, application to inverse problems for elliptic PDE*
- 15h00 - 15h50 Tom Claeys (Institut de Recherche en Mathématique et physique, Université Catholique de Louvain): *Random matrices with equi-spaced external source*
- 16h00 - 16h30 Coffee break and Poster session(*)
- 16h30 - 17h00 Mohamed Jalel Atia (Faculté des Sciences de Gabes): *An explicit formula for the linearization coefficients of Bessel polynomials II*
- 17h00 - 17h30 Ana Filipa Loureiro (Centro de Matemática da Universidade do Porto) *The Kontorovich-Lebedev transform as a map between d-orthogonal polynomials*
- 17h30 - 18h00 Amílcar Branquinho (Universidade do Coimbra) *On the full Kostant Toda system and the discrete Korteweg de Vries equations*
- (*) Posters presented by Nele Lejon (KU Leuven), Laurent Gajny (ENSAM Lille), Akif Barbaros Dikmen (Istanbul University), Stefan Güttel (Oxford), Vladimir Lysov (Institut Keldeysh, RAS, Moscow)

Organizers: Bernhard Beckermann (Labo Painlevé, Lille), Ana C. Matos (Labo Painlevé, Lille), Ahmed Salam (LMPA, Calais), Franck Wielonsky (LATP, Marseille)

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