



HARMONIC ANALYSIS, PROBABILITY & APPLICATIONS

Conference in honor of Aline Bonami

June 10-13, 2014, Université d'Orléans, France

Tuesday, June 10, 2014

11:00 - 14:00 Welcome & Lunch

Afternoon session. Chair: ANNE ESTRADE (Université Paris Descartes)

14:00 STÉPHANE JAFFARD (Université Paris-Est Créteil)

Wavelet techniques for p -exponent multifractal analysis.

14:50 IVAN NOURDIN (Université du Luxembourg)

Méthode de Stein et inégalités de Sobolev logarithmique et de transport.

15:40 Coffee break

16:10 ÉRIC AMAR (Université de Bordeaux)

How a bit of probability eases the study of interpolating sequences in the ball of \mathbb{C}^n .

17:00 BÉATRICE VEDEL (Université de Bretagne-Sud)

Hyperbolic wavelet analysis of anisotropic textures : global regularity and multifractal formalism.

Wednesday, June 11, 2014

Morning session. Chair: MARC PEIGNÉ (Université de Tours – SMF)

09:00 FRÉDÉRIC BERNICOT (CNRS-Université de Nantes)

Sobolev algebra, associated to a semigroup of operator.

09:50 Coffee break

10:20 SANDRA POTT (Lund University)

On Toeplitz products on Bergman space and two-weighted inequalities for the Bergman projection.

11:10 JIM WRIGHT (University of Edinburgh)

Affine invariant harmonic analysis.

12:00 Lunch

Afternoon session. Chair: JULIETTE LEBLOND (INRIA Sophia-Antipolis)

14:00 BRETT WICK (Georgia Institute of Technology)

Carleson Measures for Spaces of Analytic Functions.

14:50 SHOBHA MADAN (Indian Institute of Technology, Kanpur)

On the structure of Tiles and Spectra.

15:40 Coffee break

16:00 CYRILLE NANA (Université de Buea)

L^p -estimates of the Bergman projection in some homogeneous domains of \mathbb{C}^n .

17:00 Official speech of YOUSOUFI TOURÉ – Président de l'Université d'Orléans

.... **Table ronde/ round-table** “Mathématiques et Développement”.

Host: ÉTIENNE PARDOUX (Université Aix-Marseille), with DAVID BÉKOLLÉ (Université de Ngaoundéré), JOSÉ LEÓN (Universidad Central de Venezuela), and SHOBHA MADAN (Indian Institute of Technology, Kanpur).

18:30 JEAN-PIERRE KAHANE (Académie des Sciences)

Cocktail

Thursday, June 12, 2014

Morning session. Chair: STÉPHANE SEURET (Université Paris-Est Créteil)

09:00 PIERRE PORTAL (Australian National University)

Functional calculus of Dirac operators and tent spaces.

09:50 Coffee break

10:20 EWA DAMEK (Uniwersytet Wrocławski)

Two-sided bounds for L_p -norms of combinations of products of independent random variables.

11:10 JOSÉ LEÓN (Universidad Central de Venezuela)

A central limit theorem for the Euler characteristic of a Gaussian excursion set.

12:00 Lunch

Afternoon session. Chair: LAURENT DESVILLETES (ENS Cachan)

14:00 RONALD R. COIFMAN (Yale University)

Learning Dual contextual/conceptual geometries of Databases/Matrices.

14:50 ABDERRAZEK KAROUI (Faculté des Sciences de Bizerte)

Spectral decay of the sinc kernel operator and approximation by Prolate Spheroidal Wave Functions.

15:40 Coffee break

16:10 PIOTR GRACZYCK (Université d'Angers)

Non-colliding particle systems.

17:00 JACEK DZIUBANSKI (Uniwersytet Wrocławski)

On some special isomorphisms of Hardy spaces for certain Schrödinger operators.

19:30 **Conference dinner** at restaurant "Le Lift".

Friday, June 13, 2014

Morning session. Chair: GUY DAVID (Université Paris-Sud)

09:30 YVES MEYER (Académie des Sciences et ENS Cachan)

Almost periodic patterns and quasicrystals.

10:20 Coffee break

10:50 STEFANIE PETERMICHL (Université de Toulouse)

Sharp L^p estimates of second order Riesz transforms on discrete abelian groups.

11:40 PASCAL AUSCHER (Université Paris-Sud)

Bases d'ondelettes dans les structures métriques et quasi-métriques.

12:30 Lunch