

Geometric and Harmonic Analysis on Homogeneous Spaces

Kerkennah, November 2-7, 2009

Program

Monday: November 2, 2009. Registration (17:00)

Tuesday: November 3, 2009

08:30 **Opening**

09:00 — 9:40 **Hidenori Fujiwara** (Fukuoka)

Monomial representations with multiplicities of discrete type.

09:50 — 10:30 **Mohamed Salah Khalgui** (Tunis)

Classe des algèbres de Lie quasi-réductives

10:40 — 11:10 **Coffee break**

11:10 — 11:50 **Carine Molitor-Braun** (Luxembourg)

Flat orbits, primary ideals and spectral synthesis

12:00 — 12:40 **Ahmed Fitouhi** (Tunis)

An essay toward a unified theory of the L^p version of Hardy's inequality and q -analogues

Lunch

15:00 — 15:40 **Imed Kédim** (Bizerte)

On discontinuous subgroups acting on homogeneous spaces

15:50 — 16:30 **Nobukazu Shimeno** (Hyogo)

Matrix-valued commuting differential operators associated with root systems

16:40 — 17:10 **Coffee break**

17:10 — 17:50 **Boujemaa Agebaoui** (Sfax)

On cohomology and deformations of the Lie superalgebra of contact vector fields on $S^{1|m}$

Wednesday: November 4, 2009

08:30 — 09:10 **Najib Ben Salem** (Tunis)

Some applications of harmonic analysis associated with the Jacobi-Dunkl operators

09:20 — 10:00 **Philippe Jaming** (Orléans)

Distributions that are convolvable with Poisson kernels

10:10 — 10:50 **Didier Arnal** (Dijon)

Diamond cones and quasistandard Young tableaux

11:00 — 11:30 **Coffee break**

11:30 — 12:10 **Mohamed Selmi** (Hammam Sousse)

Séparation des représentations par les sur-groupes quadratiques

12:20 — 13:00 **Khemais Maktouf** (Monastir)

The Plancherel formula for solvable p -adic groups

Lunch

15:00 — 15:40 **Sami Dhieb** (Sfax)

When the deformation space $\mathcal{T}(\Gamma, H_{2n+1}, H)$ is a manifold

15:50 — 16:30 **Hideyuki Ishi** (Nagoya)

Equivariant holomorphic line bundles over a bounded homogeneous domain

16:40 — 17:10 **Coffee break**

Thursday: November 5, 2009

08:30 — 09:10 **Sundaram Thangavelu** (Bangalore)

A Paley-Wiener theorem for eigenfunction expansions

09:20 — 10:00 **Michel Duflo** (Paris)

Weyl's functional calculus and equivariant differential forms

10:10 — 10:50 **Yoshinori Yamasaki** (Matsuyama)

Zeta regularized products and higher depth determinants of Laplacians

11:00 — 11:30 **Coffee break**

11:30 — 12:10 **Abdellatif Bentaleb** (Fez)

Inégalités entropiques fonctionnelles

12:20 — 13:00 **Fatma Khelif** (Sfax)

Deforming discontinuous subgroups for threadlike homogeneous spaces

Lunch

15:00 — 15:40 **Junko Inoue** (Tottori)

Estimate for the norm of the L^p -Fourier transform on nilpotent Lie groups

15:50 — 16:30 **Atsumu Sasaki** (Tokyo)

Visible actions on complex vector spaces

16:40 — 17:10 **Coffee break**

17:10 — 17:50 **Mabrouk Ben Ammar** (Sfax)

The cohomology of $K(n)$

Friday: November 6, 2009

08:30 — 09:10 **Takeshi Kawazoe** (Yokohama)
Hardy space for Jacobi analysis and its applications

09:20 — 10:00 **Mohamed Sifi** (Tunis)
Three results in Dunkl analysis

10:10 — 10:50 **Jean Ludwig** (Metz)
Simple modules of the L^1 group algebra of $SL_2(\mathbb{R})$

11:00 — 11:30 **Coffee break**

11:30 — 12:10 **Dominique Manchon** (Clermont-Ferrand)
A deformation approach of the Kirillov map for exponential groups

12:20 — 13:00 **Radhouane Daher** (Casablanca)
Further results in Dunkl harmonic analysis

Lunch

15:00 — 15:40 **Chifune Kai** (Kanazawa)
The representative domain of a homogeneous bounded domain

15:50 — 16:30 **Sho Matsumoto** (Nagoya)
Orthogonal matrix integrals and zonal spherical functions

16:40 — 17:10 **Coffee break**

17:10 — 17:50 **Khalifa Trimeche** (Tunis)
Harmonic analysis associated with the Cherednik operators and the Heckman-Opdam theory

Closing

Saturday: November 7, 2009. Excursion

Lunch (13:00)