Du
24
MARS.
2025
au
28
MARS.
2025

09h00
-
18h00

2025-T1 REPRESENTATION THEORY AND NONCOMMUTATIVE GEOMETRY

Analysis on homogeneous spaces and operator algebras

Institut Henri Poincaré
Amphithéâtre Hermite
11 rue Pierre et Marie Curie
75005 Paris

INSCRIPTION

Representation Theory and Noncommutative Geometry

Workshop: Analysis on homogeneous spaces and operator algebras

March 24 to 28, 2025 - IHP, Paris

Summary

URL of the page: https://www.ihp.fr/fr/events/analysis-homogeneous-spaces-and-operator-algebras

Harmonic analysis on homogeneous spaces is a fundamental area of research that simultaneously generalizes classical harmonic analysis on groups and on Riemannian symmetric spaces. It naturally relates to many areas of mathematics, playing a central role in representation theory and the theory of automorphic forms.

This workshop will be an occasion to introduce recent developments in some of these areas. It will also aim to explore new connections between them and extend the fruitful interactions between C*-algebras, harmonic analysis and representation theory beyond the classical setting of groups to the general setting of homogeneous spaces.

Topics will include:

- C^*-algebraic approaches to the tempered dual of non-riemannian symmetric spaces;
- Harmonic analysis and Plancherel theory for spherical spaces
- Connections with the Langlands program and periods of automorphic forms
- Recent approaches to the theta correspondence via C^*-algebras

Preliminary list of speakers:

- Alexandre Afgoustidis
- David Ben-Zvi
- Wee Teck Gan
- Nigel Higson
- Bernhard Krötz
- Omar Mohsen
- Shintaro Nishikawa
- Yiannis Sakellaridis
- Henrik Schlichtkrull
- Haluk Sengün
- Yanli Song
- Polyxeni Spilioti

Organising Committee:

- Anne-Marie Aubert
- Haluk Sengün

Scientific Committee:

- Raphaël Beuzart-Plessis
- Nadya Gurevich
- Nigel Higson
- Gestur Olafsson

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75231 Paris Cedex 05

HORAIRES

L'institut :
• lundi au vendredi de 8h30 à 18h,
• fermé les jours fériés.

Le musée - Maison Poincaré :
• lundi, mardi, jeudi et vendredi
de 9h30 à 17h30,
• samedi de 10h à 18h,
• fermé le mercredi et le dimanche.

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