

RESEARCH SCHOOL
Representation Theory, Geometry, and Quantization on
Homogeneous Spaces

Théorie des représentations, géométrie et quantification sur les espaces homogènes

21–25 September 2026

MONDAY, SEPTEMBER 21, 2026

SESSION I

08h30–10h00 Toshiyuki Kobayashi Spectral analysis on locally symmetric spaces
(Tokyo):

10h00–10h30 Coffee Break

10h30–12h00 Fanny Kassel (IHES): Proper actions on reductive homogeneous spaces

12h00–12h30 Shunsuke Miyauchi Classification of connected proper pairs in the affine trans-
(Tokyo): formation group

12h30–14h30 Lunch

SESSION II

14h30–16h00 Angela Pasquale The Howe correspondence over the reals
(Metz):

16h00–16h30 Coffee Break

16h30–17h00 Imane Ghanimi* Characterization of the L^P range of a generalized Poisson
(Kenitra): transform of the quaternionic unit ball

17h00–17h30 Olufemi Oyadare* Fourier and Helgason Fourier transforms for Vector Bundle-
(Nigeria): valued Differential Forms on Homogeneous Spaces

TUESDAY, SEPTEMBER 22, 2026

SESSION I

08h30–10h00 **Dominique Manchon** Deformation quantization and representations
(*Clermont*):

10h00–10h30 Coffee Break

10h30–11h00 **Abdou Ganiou** Towards a Characterization of the Gabor Frame Set for
Débayo Atindehou Compactly Supported Continuous Functions
(*Benin*):

11h00–11h30 **Anoh Yannick Kraidi** On some properties of Reproducing Kernel Hilbert modules
(*Abidjan*):

11h30–12h00 **Cheikh Khoule** Structure de l'Espace des Origines Affines d'une Structure
(*Dakar*): de Contact

12h00–12h30 **Ryosuke Nakahama** Characterization of infinite-order differential holographic
(*Tokyo*): operators for symmetric pairs of holomorphic type by differential equations

12h30–14h30 Lunch

SESSION II

14h30–15h30 **Toshiyuki Kobayashi** Spectral analysis on locally symmetric spaces
(*Tokyo*):

15h30–16h00 **Siwei Liang** (*Orsay*): Tempered homogeneous spaces

16h00–16h30 Coffee Break

16h30–17h00 **Lasse Wolf** (*IHES*): Tempered locally symmetric spaces via Poincaré series

17h00–17h30 **Discussions and exercises**

WEDNESDAY, SEPTEMBER 23, 2026

SESSION I		
08h30–09h30	Angela Pasquale (Metz):	The Howe correspondence over the reals
09h30–10h00	Chayma Sayari (Bizerte):	Cortex of Lie algebras in particular cases
10h00–10h30 Coffee Break		
10h30–11h30	Fanny Kassel (IHES):	Proper actions on reductive homogeneous spaces
11h30–12h00	Hassen Bourokba (Sfax):	Visible actions on complex domains related to Euclidean motion groups
12h00–12h30	Khouloud Abid (Sfax):	Uncertainty Principles for the Gabor Transform on Certain Lie Groups
12h30–14h30 Lunch		
AFTERNOON – FREE		

THURSDAY, SEPTEMBER 24, 2026

SESSION I

08h30–09h30 **Gael Ngambali Ndzakima** (*Brazzaville*): Polarisation and Irreducibility of Induced Representations of Nilpotent Lie Groups

09h30–10h00 **Valentin Massicot** (*Reims*): Symmetry Breaking Operators for $(GL(3, \mathbb{R}), GL(2, \mathbb{R}))$

10h00–10h30 Coffee Break

10h30–12h00 **Dominique Manchon** (*Clermont*): Deformation quantization and representations

12h00–12h30 **Jonathan Ditlevsen** (*Tokyo*): Branching laws for Stein's complementary series and Speh representations

12h30–14h30 Lunch

SESSION II

14h30–16h00 **Angela Pasquale** (*Metz*): The Howe correspondence over the reals

16h00–16h30 Coffee Break

16h30–17h00 **Ibtissem Ben Chenni** (*Monastir*): Autour de la topologie duale de certains groupes de Lie à nilradical co-compact

17h00–17h30 **Jocelyn Gonessa** (*Bangui*): Estimations $L^p - L^q$ des opérateurs de type Forelli-Rudin dans la boule minimale

FRIDAY, SEPTEMBER 25, 2026

SESSION I

08h30–09h30 **Dominique Manchon** Deformation quantization and representations
(*Clermont*):

09h30–10h00 **Yasmin Ben Soula** Lattices in the Metabelian Nilpotent Lie Group
(*Bizerte*):

10h00–10h30 Coffee Break

10h30–12h00 **Fanny Kassel** (*IHES*): Proper actions on reductive homogeneous spaces

12h00–12h30 **Tatsuro Hikawa** The Schwartz Space for the (k,a) -Generalized Fourier Trans-
(*Tokyo*): form and the Minimal Representation of the Conformal
Group

12h30–14h30 Lunch

SESSION II

14h30–16h00 **Toshiyuki Kobayashi** Spectral analysis on locally symmetric spaces
(*Tokyo*):

16h00–16h30 Coffee Break

16h30–17h **Rafik Khalfi** (*Biz-erte*): The Benson-Ratcliff invariant of MD-algebras and central
extensions of nilpotent Lie algebras

17h–17h30 **Discussions and exer-
cises**

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CIRM, 21 – 25 September, 2026

	08h30 -10h		10h-10h30	10h30-12h			12h – 12h30	12h30-14h30	14h30-16h		16h - 16h30	16h30- 17h30	
MONDAY 21/09/2026	T. Kobayashi (Tokyo)		Cofee Break	F. Kassel (IHES)			S. Miyauchi (Tokyo)	Lunch	A. Pasquale (Metz)		Coffee Break	16h30- 17h	17h- 17h30
TUESDAY 22/09/2026	D. Manchon (Clermont)			10h30 –11h	11h – 11h30	11h30- 12h	R. Nakahama (Tokyo)		14h30 -15h30	15h30-16h		I. Ghanimi* (Kenitra)	O. Oyadare* (Nigeria)
				A. G. D. Atindehou (Benin)	A. Y. Kraidi (Abidjan)	C. Khoule (Dakar)			T. Kobayashi (Tokyo)	S. Liang (Orsay)		S. Liang (Orsay)	Discussions and exercises
				10h30-11h30		11h30-12h			K. Abid (Sfax)	FREE AFTERNOON			
WEDNESDAY 23/09/2026	08h30- 09h30	09h30- 10h		F. Kassel (IHES)		H. Bourokba (Sfax)							
THURSDAY 24/09/2026	08h30-09h30	09h30-10h		D. Manchon (Clermont)			J. Ditlevsen (Tokyo)		A. Pasquale (Metz)		Coffee Break	16h30- 17h	17h- 17h30
	G. N. Ndzakima (Brazzaville)	V. Massicot (Reims)										I. Ben Chenni (Monastir)	J. Gonessa* (Bangui)
FRIDAY 25/09/2026	08h30-09h30	09h30-10h		F. Kassel (IHES)			T. Hikawa (Tokyo)		T. Kobayashi (Tokyo)			16h30- 17h	17h- 17h30
	D. Manchon (Clermont)	Y. Ben Soula (Bizerte)										R. Khalfi (Bizerte)	Discussions and exercises