

ICM EMMY NOETHER LECTURE

Representations of p-adic groups

Marie-France Vignéras

Date and Time

Monday, 4 July 2022

9.30–10.30am (GMT+2, Central European Summer Time)

3.30–4.30pm (GMT+8, Singapore)

Venue

IMS Auditorium

National University of Singapore

3 Prince George's Park Singapore 118402

Abstract

Motivated by the Langlands program in representation theory, number theory and geometry, the theory of representations of a reductive p-adic group, originally in complex vector spaces, has been widely developed in modules over a commutative ring during the last two decades.

Adressed to a broad audience, the 2022 ICM Noether Lecture is accessible without prerequisite and conveys intuition on the most striking results.

This talk is part of the workshop on
*Representations and Characters: Revisiting the Works
of Harish-Chandra and André Weil*
–A satellite conference of the virtual ICM 2022
(1–15 July 2022)

Registration

<https://tinyurl.com/ImsRepresentationsReg>



Contact information

Institute for Mathematical Sciences

National University of Singapore

3 Prince George's Park Singapore 118402

ims.nus.edu.sg



Photo by Tony Rinaldo

Professor Marie-France Vignéras

IMJ-PRG, France

Biography

Professor Marie-France Vignéras is Professor emeritus of the Institut de Mathématiques de Jussieu (IMJ-PRG) and Université Paris Cité (formally known as Université Paris Diderot). She is an IMS distinguished visitor. She received her PhD from the Université de Bordeaux. She was the director of the Centre of Mathematics of École Normale Supérieure Sèvres (1977–1983). She was awarded the 2005 Emmy Noether Professorship (University of Göttingen) and was a fellow of the Radcliffe Institute for Advanced Study (Harvard University). She was an invited speaker at the European Congress of Mathematics (Barcelona, 2000) and the International Congress of Mathematics (Beijing, 2002). Her awards include the Albert Chatelet Medal, Silver Medal of CNRS (Centre national de la recherche scientifique), Gay-Lussac Humboldt Prize and National Science Foundation Visiting Professorship for Women. She is currently working on the p-adic Langlands program.