



Du
27
NOV.
2021

14h30
-
15h30

SÉMINAIRE BOURBAKI

Menny Aka — Joinings classification and applications after Einsiedler and Lindenstrauss

IHP
Hermite

INSCRIPTION

This talk surveys the classification of joinings of higher-rank torus actions on S -arithmetic quotients of semisimple or perfect algebraic groups and some of its applications. This classification was proved by Einsiedler and Lindenstrauss (Duke Mathematical Journal 2007, Publications mathématiques de l'IHÉS, 2019). It establishes that ergodic joinings must be algebraic, and in particular that such torus actions in many cases must be disjoint, that is, they admit only the trivial joining which is the product of the Haar measures on each of the factors.

Their proof is based on entropy methods, developed by Einsiedler, Katok, Lindenstrauss and Spatzier. We will describe these methods and give some ideas on how they fit into the scheme of their proof. Specifically, we will explain how to prove disjointness when the associated algebraic groups have a different root structure. This already allows for some applications, which will be presented at the end of the talk.

URL of the page: <https://www.ihp.fr/fr/agenda/menny-aka-joinings-classification-and-applications-after-einsiedler-and-lindenstrauss>



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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.