

## Determinant Values on Irrational Lattices

*mercredi 10 septembre 2025 09:30 (1 heure)*

We study the value-distribution problem of  $\det$  on an irrational lattice  $L < M_n(\mathbb{R})$ : how are the values of  $\det$  on  $L$  distributed on  $\mathbb{R}$ ? In a recent joint work in progress with Wooyeon Kim, we obtain quantitative results toward this question; for  $n=2$ , this amounts to a quantitative version of the Oppenheim conjecture for quadratic forms of signature  $(2,2)$ , as studied by Eskin-Margulis-Mozes (2005).

**Orateur:** OH, Hee (Yale Univ.)

**Classification de Session:** Morning Chair: Martin Orr