

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).

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Classification de Session: Morning Chair: Martin Orr