

Séminaire de théorie des nombres

Le 01 juin 2026 à 14h (PRG)

The arithmetic of thin orbits

Exposé de Katherine Stange
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Résumé : We consider the local-to-global question for orbits of thin groups/semigroups. We will discuss Apollonian circle packings, continued fractions, and some related problems. In the Apollonian case, we ask about the integers which occur as curvatures in a packing. We observe that they satisfy certain congruence restrictions, and ask whether all sufficiently large integers otherwise occur. In the case of continued fractions, we consider variants of Zaremba's conjecture on the rationals with bounded continued fractions. Joint work includes work with Haag, Kertzer, and Rickards.