

Dynamics on $Sl(n, \mathbb{R})/SL(n, \mathbb{Z})$ and Diophantine Approximation on Affine Subspaces

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1 Abstract

I will present a new result in the theory of metric diophantine approximation on submanifolds of \mathbb{R}^n , specifically on hyperplanes. The proof is dynamical in nature and uses a quantitative non-divergence result due to Kleinbock and Margulis. I will begin with a short introduction to the theory of metric diophantine approximation, discuss existing results and connections with dynamics, and then sketch the proof.