

Poisson boundary for the discrete affine group

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Abstract

We introduce the discrete affine group of a regular tree as a finitely generated subgroup of the affine group. We describe the Poisson boundary of random walks on it as a space of configurations, and discuss metric relationship with some lamplighter groups and lamplighter graphs. (Joint work with Jérémie Brioussel (Université de Montpellier) and Tianyi Zheng (UC San Diego)).