

Liouville property and conformal dimension

Volodymyr Nekrashevych

Texas A&M University

We will talk about a relation between the Ahlfors-regular dimension of the limit space of a contracting self-similar group and properties of random walks on them. In particular, we will discuss when amenability of the group can be inferred from the geometry of its limit space. This is a joint work with N. Matte Bon and T. Zheng.

In Special Session 46 on Infinite Groups and Related Topics at the Mathematical Congress of the Americas 2025.