

Constructing super-expanders from actions of higher rank lattices

lundi 10 juin 2024 11:00 (1 heure)

Super-expanders are sequences of finite, d -regular graphs that satisfy some nonlinear form of spectral gap with respect to all uniformly convex Banach spaces. This notion vastly strengthens the classical notion of expander. In this talk I will explain some recent constructions of super-expanders, coming from actions of higher rank lattices on Banach spaces and on manifolds. I will also review some recent constructions of (usual) expanders, for which we do not know whether they are super-expanders.

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