

Recent Developments - Discrete Subgroups with Finite Bowen-Margulis-Sullivan Measure in Higher Rank (1/2)

mercredi 21 juin 2023 10:45 (1 heure)

Let G be a connected semisimple real algebraic group and D be its Zariski dense discrete subgroup. We prove that if $D \backslash G$ admits any finite Bowen-Margulis-Sullivan measure, then D is virtually a product of higher rank lattices and discrete subgroups of rank one factor of G . This may be viewed as a measure-theoretic analog of classification of convex cocompact actions by Kleiner-Leeb and Quint, which was conjectured by Corlette in 1994. This is joint work with Mikolaj Fraczyk. We will then discuss its application on the bottom of the L^2 spectrum, in joint work with Samuel Edwards, Mikolaj Fraczyk, and Hee Oh.

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