ABSTRACT:

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Automorphisms of RAAGs: vast or skimpy ?

Say that a group G involves all finite groups if for every finite group F, some finite index subgroup of G maps onto F. For instance, for n>2, SL_n(Z) does not involve all finite groups, whereas Out(F_n) does for n>1. The family of groups Out(A) of outer automorphisms of right angled Artin groups "interpolates" between SL_n(Z) and Out(F_n), and the goal of this talk is to describe the boundary between these 2 behaviors, within this family of groups. We also study other "vastness" properties like SQ-universality, of having many quasimorphisms, and we prove that the boundary happens to be the same. This is a joint work with Andrew Sale.