

Mathematics Colloquium

Adam Piggott

Tufts

Detecting the Growth
of Free-Group
Automorphisms

Abstract: The (relative) growth function of a free-group automorphism measures the rate at which the cyclically-reduced image of a basis grows under iteration of the automorphism. We discuss the extent to which the asymptotic behavior of the growth function of an automorphism may be detected in the induced action on the homology of subgroups of finite index. This research was conducted some time ago, but I will be viewing it with new eyes.

Wednesday, February 28
4:00-5:00 pm
242 Smith Hall
Please note special room