

Algebra Seminar

Mike Watson
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Wednesday, July 6, 2016
1:00 p.m., HH-3017

"Growth Functions for Commutator Subgroups"

Abstract

In this work, we compare growth functions of different bases of commutator subgroups of free groups. Of the bases that we consider, the geodesic Schreier bases appear to be the fastest. In connection with groups, we consider a basis for the free Lie commutator subalgebra. In contrast with groups, the growth of a homogeneous basis for a free Lie subalgebra does not depend on the choice of basis.