

# Algebra Seminar

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Tuesday, March 6, 2012  
SN-1019, 1:00p.m.

*Graded polynomial identities, group actions, Hopf module algebras, and exponential growth*

## Abstract:

We prove the analog of Amitsur's conjecture on asymptotic behavior for codimensions of different generalizations of polynomial identities, e.g. graded polynomial identities and  $G$ -identities for any finite not necessarily Abelian group  $G$ , and  $H$ -identities for finite dimensional associative algebras with an action of a finite dimensional semisimple Hopf algebra  $H$ .