

ALGEBRA
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*Chow groups with coefficients and generalized Severi-Brauer
varieties*

Patrick McFaddin
University of Georgia

Abstract: The theory of algebraic cycles on homogenous varieties has seen many useful applications to the study of central simple algebras, quadratic forms, and Galois cohomology. Significant results include the Merkurjev-Suslin Theorem and Suslin's Conjecture, recently proved by Merkurjev. Despite these successes, a general description of Chow groups and Chow groups with coefficients remains elusive, and computations of these groups are done in various cases. In this talk, I will give some background on K-cohomology groups of Severi-Brauer varieties and discuss some recent work on computing these groups for an algebra of index 4.

Tuesday, February 2, 2016, 4:00 pm
Mathematics and Science Center: W304

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