

MATHEMATICS DEPARTMENT  
North Carolina State University

ALGEBRA SEMINAR

Friday, September 15, 2006

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NC State University

Conjugacy in Algebraic Monoids

**ABSTRACT:** Algebraic monoids are closures of algebraic groups, the multiplicative monoid of matrices being an example. We study conjugacy in the monoid in the following way. First, we introduce a new decomposition of the monoid that we call the 'conjugacy' decomposition. There is much geometry and combinatorics associated with this decomposition which is yet to be understood. Secondly, conjugacy classes within any piece of the decomposition are in 1-1 correspondence with the twisted conjugacy classes of a reductive group.

3:00 - 3:50 pm    HA 335

Faculty and Students are invited to attend.