



Speaker: Martha Precup
University of Notre Dame

Tuesday, August 28, 2012
12:00 PM
258 Hurley Hall

Title: The Geometry of Semisimple Hessenberg Varieties

Abstract:

Lie theoretic tools can be used to answer geometric questions about Hessenberg varieties, a family of subvarieties of the flag variety. We will show that these varieties can be paved by affines, which determines their Betti numbers. Time permitting, we'll also discuss other geometric properties of these varieties including open questions about connectedness, singularities, and irreducible components.