

Graduate Student Seminar



Speaker: Martha Precup
University of Notre Dame

Monday, February 27, 2012
4:15 pm
231 Hayes-Healy Hall

Title: Paving regular nilpotent varieties by affines

Abstract:

Regular nilpotent Hessenberg varieties are a family of subvarieties of the flag variety. We will describe a paving of these varieties by affines for the algebraic group $GL_n(\mathbb{C})$. If you didn't understand the last two sentences, do not fear! Working with $GL_n(\mathbb{C})$ will allow us to gain insight into the structure theory of algebraic groups without too much technicality. We'll define all the terms and review some well known results about the structure of the flag variety along the way.