



The Department of Mathematics
Presents

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Monday, February 6, 2017
@ 3:00PM in PB 390

Springer varieties and Row-Standard Tableaux

Abstract:

Springer varieties are geometric objects that play an important role in representation theory. A row-strict tableau is a diagram of boxes filled with the numbers $1, \dots, n$ so that each number appears exactly once and the values increase from left to right in each row. In this talk, we'll define Springer varieties and analyze their structure using row-strict tableaux. We will use these diagrams to compute the Betti numbers of Springer varieties and give a simple formula for doing so in some special cases.