

# Abstract

## **Cohomology and Support Varieties, Part 2**

This talk will be a continuation of themes and ideas from the Thursday colloquium lecture. I will go into more detail describing calculations of cohomology and support varieties for quantized enveloping algebras, including some joint work with Dan Nakano and Brian Parshall studying the support varieties of simple modules, and some work on developing a theory of rank varieties for quantized enveloping algebras.