

# Queen's Algebraic Geometry — Seminar —

## STRINGY CHERN CLASSES OF SINGULAR ALGEBRAIC VARIETIES

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### Abstract

In this talk I will discuss a joint work with Lupercio, Nevins and Uribe, in which we use motivic integration to give a theory of Chern classes for singular algebraic varieties that is birationally well-behaved (i.e., with a “stringy” flavor). The construction of these classes combines relative motivic integration and MacPherson transformation. Using formal properties of motivic integration, I will discuss the main properties of stringy Chern classes. I will close the talk with the discussion of an explicit formula computing these classes in the orbifold setting.

Monday, November 28, 2005  
4:45pm – 5:45pm  
319 Jeffery Hall