



THE WORLDWIDE CENTER OF MATHEMATICS

Chern Classes of Blow-ups



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Friday, May 8, 2009

Coffee, tea, cookies: 3:30pm

Talk: 4-5pm

929 Massachusetts Ave., Cambridge, Suite #102

Abstract: We extend the classical formula of Porteous for blowing-up Chern classes to the case of blow-ups of possibly singular varieties along regularly embedded centers. The proof of this generalization is perhaps conceptually simpler than the standard argument for the nonsingular case, involving Riemann-Roch without denominators. The new approach relies on the explicit computation of an ideal, and a mild generalization of the well-known formula for the normal bundle of a proper transform.

The Worldwide Center of Mathematics, www.centerofmath.org, is located midway between Harvard and Central Squares, at 929 Massachusetts Avenue, Cambridge, MA, in Suite #102. Travel to the Center by public transportation is easy via the #1 bus, or by taking the subway (the T) to Central Square, and walking for 10 minutes. Suite #102 is located on floor 01, which is distinct from floor 1.

All attendees will need to sign a release form, as the lecture will be recorded for distribution on the Web.