

On Chern classes for singular varieties

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Abstract

Chern classes had played an important role in Complex Geometry and Algebraic Geometry ever since its introduction by S-S Chern in 1946. Chern classes are characteristic classes associated to smooth complex manifolds or smooth algebraic varieties.

In this talk I will address the two most important generalization which have appeared in the literature for singular varieties, the so called Fulton-Johnson and Schwartz-MacPherson classes. The difference between those two classes is the so called Milnor class. In this talk I will be mostly concerned with this Milnor class, which is a class supported on the singular locus of the variety.