

1077-14-2263

Xia Liao* (x107c@fsu.edu), FSU Mathematics, 208 Love Building, 1017 Academic Way,
Tallahassee, FL 32306-4510. *Chern classes of sheaves of logarithmic differentials.*

Let D be a Cartier divisor in a nonsingular complete variety. In this paper we compare the Chern-Schwartz-Macpherson class of the complement of D and the Chern class of the sheaf of logarithmic derivatives along D . When D is a reduced divisor in a surface, we show that these classes agree with each other if and only if the Milnor number and Tjurina number of the singularity of D are the same. (Received September 22, 2011)