

Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

Swan conductors and torsion in the logarithmic de Rham complex

Sinan ÜNVER

Department of Mathematics

Koç University, İstanbul-TURKEY

e-mail: sunver@ku.edu.tr

 [Keywords](#)
 [Authors](#)

Abstract: We prove, for an arithmetic scheme X/S over a discrete valuation ring whose special fiber is a strict normal crossings divisor in X , that the Swan conductor of X/S is equal to the Euler characteristic of the torsion in the logarithmic de Rham complex of X/S . This is a precise logarithmic analog of a theorem by Bloch [1].



Turk. J. Math., **34**, (2010), 451-464.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Math., vol.34, iss.4.](#)

math@tubitak.gov.tr

[Scientific Journals Home
Page](#)