SHORT NOTES ON...

PEDRO NÚÑEZ

Contents

1. Example section

Hirzebruch–Riemann–Roch [Har77, Thm. A.4.1] states that for a locally free sheaf $\mathcal{E}$ of rank r on a nonsingular projective variety X of dimension n,

$$\chi(\mathcal{E}) = \deg(\operatorname{ch}(\mathcal{E}).\operatorname{td}(\mathcal{T}))_n,$$

where $(\ )_n$ denotes the component of degree n in $A(X) \otimes \mathbb{Q}$.

References

[Har77] Robin Hartshorne. *Algebraic geometry*. Graduate Texts in Mathematics, No. 52. Springer-Verlag, New York-Heidelberg, 1977, pp. xvi+496. ISBN: 0-387-90244-9.