

SHORT NOTES ON...

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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 ,

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

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.