

First Joint Meeting Brazil Italy of Mathematics
Special Session, S6: Commutative Algebra and its
Interactions

Rio de Janeiro, August 29 - September 02, 2016

Title: Duality and socle generators for residual intersections

Authors: Bernd Ulrich and David Eisenbud

We prove duality results for residual intersections generalizing work of van Straten, Huneke-Ulrich, and Ulrich, and we settle some conjectures of van Straten and Warmt. We also generalize the classical formula for the socle of local complete intersection algebras over a field of characteristic zero.