

1112-13-302

**Katie Ansaldi\***, University of Notre Dame, Department of Mathematics, 255 Hurley Hall, Notre Dame, IN 46556, and **Nicholas Clarke** and **Luigi Ferraro**. *Regularity of Tor for Weakly Stable Ideals*.

Let  $R$  be a standard graded polynomial ring over a field. Eisenbud, Huneke, and Ulrich proved a bound for the regularity of  $\mathrm{Tor}_i^R(R/I, R/J)$  provided that the dimension of  $\mathrm{Tor}_i^R(R/I, R/J) \leq 1$ , but there are examples where the bound does not hold in general. We prove that for weakly stable ideals the expected bound holds. (Received August 07, 2015)