

1128-13-180 **John Myers*** (jmyers4@math.unl.edu). *Ext-algebras and minimal multiplicity*. Preliminary report.

If R is a commutative noetherian local ring with residue field k , then the graded vector space $\text{Ext}_R^*(k, k)$ has a product giving it the structure of a graded k -algebra, which is called the Ext-algebra of R . In this talk we will explain how rings with minimal Hilbert-Samuel multiplicity can be detected by examining the structure of this algebra. (Received February 24, 2017)