

1124-13-247 **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, called the Ext-algebra or Yoneda 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 September 10, 2016)