

1100-16-252

Kosmas Diveris*, diveris@stolaf.edu, and **Marju Purin**. *Vanishing of self-extensions over symmetric algebras*.

The Auslander-Reiten (AR) quiver of an Artin algebra is a combinatorial device for organizing the indecomposable modules over the algebra. For symmetric artin algebras, the combinatorial structure of this quiver is well suited for investigating modules with eventually vanishing self-extensions. In fact, one can determine when the vanishing of self-extensions must begin for any such module based on its position in the AR quiver. In this talk, we will explain how one can use the combinatorial data of the AR quiver to prove this and discuss connections with conjectures of Tachikawa, Auslander and Reiten. (Received February 09, 2014)