

1100-13-119

Saeed Nasseh* (snasseh2@unl.edu) and **Sean Sather-Wagstaff**
(sean.sather-wagstaff@ndsu.edu). *Vanishing of Tor over trivial extensions of DG algebras and applications.*

In this talk we discuss some applications of the vanishing of Tor over certain trivial extensions of DG algebras. In particular, we show that a local ring R of embedding codepth at most 3 has at most two semidualizing complexes up to shift-isomorphism, namely, R itself and a dualizing R -complex if one exists. (Received February 04, 2014)