

1102-13-272

**Pye Phyo Aung\*** (pye.aung@ndsu.edu). *Gorenstein Dimensions over Some Rings of the Form  $R \oplus C$ .*

Given a semidualizing module  $C$  over a commutative noetherian ring  $R$ , Holm and Jørgensen investigate some connections between  $C$ -Gorenstein dimensions of an  $R$ -complex  $M$  and Gorenstein dimensions of  $M$  viewed as a complex over the “trivial extension”  $R \times C$ . We will discuss generalizations of some of their results to a certain type of retract diagram. We will also discuss some examples of such retract diagrams, namely D’Anna and Fontana’s amalgamated duplication and Enescu’s pseudocanonical cover. (Received July 30, 2014)