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Pye Phyo Aung* (pye.aung@ndsu.edu). *Gorenstein Dimensions of 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 September 07, 2014)