

1092-13-58

Hannah Altmann* (hannah.altmann@ndsu.edu). *Semidualizing modules (and complexes) over tensor products*. Preliminary report.

Let R be a commutative, noetherian ring with identity. An R -module C is *semidualizing* if C is finitely generated over R , the homothety map $\chi_C^R : R \rightarrow \text{Hom}_R(C, C)$ is an isomorphism, and $\text{Ext}_R^i(C, C) = 0$ for all $i > 0$. We will discuss the existence of nontrivial semidualizing modules (and complexes) over tensor products. (Received July 22, 2013)