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

Let R be a commutative, noetherian ring with identity. An R -complex C is *semidualizing* if C is homologically finite and the homothety map $\chi_C^R : R \rightarrow R\mathrm{Hom}_R(C, C)$ is an isomorphism in $\mathrm{D}(R)$. We will discuss the existence of nontrivial semidualizing complexes over tensor products of algebras over a field. (Received January 26, 2014)