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Title: Codualizing Modules And Complexes

Abstract: Let R be a commutative, noetherian ring. A finitely generated R-module C is said to be semdualizing if $\operatorname{Ext}_R^i(C,C) = 0$ for all i > 0 and $R \xrightarrow{\cong} \operatorname{Hom}_R(C,C)$. When R is local, an artinian R-module T is said to be quasidualizing if $\operatorname{Ext}_R^i(T,T) = 0$ for all i > 0 and $\widehat{R} \xrightarrow{\cong} \operatorname{Hom}_R(T,T)$. Using the notion of I-cofiniteness, we introduce a unifying notion that recovers each of the above notions as special cases. This is joint work with Sean Sather-Wagstaff.