

1086-13-2428

Sean Sather-Wagstaff and **Richard Wicklein*** (richard.wicklein@ndsu.edu). *I-Codualizing Modules*. Preliminary report.

Let R be a commutative, noetherian ring. A finitely generated R -module C is said to be semidualizing if $\text{Ext}_R^i(C, C) = 0$ for all $i > 0$ and $R \xrightarrow{\cong} \text{Hom}_R(C, C)$. When R is local, an artinian R -module T is said to be quasidualizing if $\text{Ext}_R^i(T, T) = 0$ for all $i > 0$ and $\widehat{R} \xrightarrow{\cong} \text{Hom}_R(T, T)$. Using the notion of I -cofiniteness, we introduce a unifying notion that recovers each of the above notions as special cases. (Received September 25, 2012)