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Diana M White* (dwhite@math.unl.edu), Department of Mathematics, 203 Avery Hall, PO Box 880130, Lincoln, NE 68588-0130. *Comparison of relative cohomology theories with respect to semidualizing modules*. Preliminary report.

For a commutative Noetherian ring, Golod generalized the notion of a dualizing (canonical) module. These so-called semidualizing modules give rise to various relative cohomology functors. In this talk we discuss when these functors are well-defined, when they are distinct, and when there are maps between them. (Received August 15, 2006)