

Meeting: 999, Nashville, Tennessee, SS 6A, Special Session on Local and Homological Algebra

999-13-281 **Oana Veliche*** (oveliche@math.utah.edu), University of Utah, 155 South 1400 East, Room 233,
Salt Lake City, UT 84112. *Bounded Ext and Gorenstein dimension.*

Let R be a commutative ring. The classical Ext of two R -modules M and N is the homology of the Hom complex defined by the projective resolutions of M and respectively of N . Bounded Ext is the homology of the subcomplex of Hom complex above, consisting of maps of finite support.

I will describe the functor Bounded Ext, presenting some of its properties. In particular, I plan to discuss the relationship between this notion and Gorenstein dimension. (Received August 24, 2004)