

**Meeting:** 998, Houston, Texas, SS 21A, Special Session on Homological Algebra of Commutative Rings

998-13-222      **Anders Frankild** ([frankild@math.ku.dk](mailto:frankild@math.ku.dk)), Institute for Mathematical Sciences, Universitetsparken 5, DK-2100 Copenhagen, Denmark, **Henrik Holm** ([holm@math.ku.dk](mailto:holm@math.ku.dk)), Institute for Mathematical Sciences, Universitetsparken 5, DK-2100 Copenhagen, Denmark, and **Sean Sather-Wagstaff\*** ([ssather@math.uiuc.edu](mailto:ssather@math.uiuc.edu)), Department of Mathematics, 273 Altgeld Hall, 1409 W. Green St., Urbana, IL 61801. *Relative Ext for complexes*. Preliminary report.

For a module  $M$  of finite Gorenstein projective dimension, Avramov-Martsinkovsky and Holm defined relative cohomology functors  $\text{Ext}_{GP}^i(M, -)$  and investigated their basic properties. We shall describe recent work extending this notion to the case where  $M$  is a chain complex of finite Gorenstein projective dimension. (Received February 27, 2004)