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Florian Enescu*, Department of Mathematics and Statistics, University Plaza, Georgia State University, Atlanta, GA 30303. *Local cohomology and Frobenius depth*. Preliminary report.

The talk will discuss the Frobenius action on local cohomology modules of a d -dimensional local ring with emphasis on the notion of F -depth introduced by Hartshorne and Speiser. A local version of the F -depth will be investigated in relation to the family of F -stable primes. Particular attention will be paid to the Frobenius action on the i -th local cohomology module where $i < d$. (Received February 05, 2006)