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Florian Enescu* (fenescu@gsu.edu), Georgia State University, Department of Mathematics and Statistics, Atlanta, GA 30303. *Local cohomology, F-purity and antinilpotency*. Preliminary report.

I will discuss the notion of an antinilpotent module and present applications to the local cohomology module of local ring of positive characteristic with support in its maximal ideal. The case of a Cohen-Macaulay F-pure ring will be particularly studied. (Received September 05, 2009)