

GENERALIZED f -MODULES AND THE ASSOCIATED PRIMES OF LOCAL COHOMOLOGY MODULES, COMM. ALGEBRA (SCI) 34 (2006), 863-878

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TÓM TẮT:

We introduce a class of modules called generalized f -modules, which contains strictly all f -modules and generalized Cohen–Macaulay modules. The properties of multiplicity, local cohomology modules, localization, completion of these modules are presented. A result concerning the finiteness of associated primes of local cohomology modules with respect to generalized f -modules is given. Some connections to the coordinate rings of algebraic varieties and Stanley-Reisner rings are considered.