

ON THE ASSOCIATED PRIMES AND THE SUPPORTS OF GENERALIZED LOCAL COHOMOLOGY MODULES (SCOPUS)

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TÓM TẮT:

In this note, we prove the following results: (1) if $\dim(N) \leq 3$ then $\text{Ass}(H^i_I(M,N))$ is finite for all $i \geq 0$; (2) Let $d = \dim(R)$ and $s(I,M) = \text{depth}(M/I^n M)$ for some large n . If N has finite injective dimension then we have $H^i_I(M,N) = 0$ for all $i > d - s(I,M)$, $H^d_I(M,N)$ is Artinian, and $\text{Supp}(H^{d-1}_I(M,N))$ is finite.