## ON THE VANISHING AND THE FINITENESS OF SUPPORTS OF GENERALIZED LOCAL COHOMOLOGY MODULES

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## TÓM TẮT:

Let (R, m) be a Noetherian local ring, I an ideal of R and M, N two finitely generated R-modules. The first result of this paper is to prove a vanishing theorem for generalized local cohomology modules which says that HjI(M, N) = 0 for all j > dim(R), provided M is of finite projective dimension. Next, we study and give characterizations for the least and the last integer r such that Supp(HrI(M, N)) is infinite.