

**عنوان مقاله:**

GENERALIZED FORMAL LOCAL COHOMOLOGY MODULES

**محل انتشار:**

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**خلاصه مقاله:**

Let  $\mathfrak{a}$  be an ideal of a local ring  $(R, \mathfrak{m})$  and  $M$  and  $N$  two finitely generated  $R$ -modules. In this paper, we introduce the concept of generalized formal local cohomology modules. We define  $i$ -th generalized formal local cohomology module of  $M$  and  $N$  with respect to  $\mathfrak{a}$  by  $\mathfrak{F}_{\mathfrak{a}}^i(M, N) := \varprojlim_n H_{\mathfrak{m}}^i(M, N/\mathfrak{a}^n N)$  for  $i \geq 0$ . We prove several results concerning vanishing and finiteness properties of these modules

**کلمات کلیدی:**

formal local cohomology, Local cohomology, Generalized

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