Rezaei, Shahram; Riahini-Komachali, Atefeh
Finiteness properties of formal local cohomology modules. (English) J. Algebr. Syst. 9, No. 2, 323-333 (2022)

Summary: Let \( a \) be an ideal of Noetherian local ring \((R, m)\), \( M \) a finitely generated \( R \)-module. In this paper, we prove some results concerning finiteness of formal local cohomology modules. In particular, we investigate some properties of top formal local cohomology module \( \mathfrak{f}^{\dim M / aM}(M) \). Among other things, we determine \( \text{Att}_R(\mathfrak{f}^{\dim M / aM}(M)) \), in the case that \( \mathfrak{f}^{\dim M / aM}(M) \) is an artinian \( R \)-module if and only if it is minimax.

MSC:
13D45 Local cohomology and commutative rings
13E05 Commutative Noetherian rings and modules
14B15 Local cohomology and algebraic geometry

Keywords:
formal local cohomology; local cohomology; artinianness

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References:

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