

ON THE CATENARICITY OF NOETHERIAN LOCAL RINGS AND QUASI UNMIXED
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TÓM TẮT:

Let (R, \mathfrak{m}) be a Noetherian local ring, A an Artinian R -module, and M a finitely generated R -module. Consider the following property: $\text{Ann}_R(0 :_{Ap}) = \mathfrak{p}$ for all prime ideal \mathfrak{p} containing $\text{Ann}_R A$. In this article, we give a connection among the property (*) for a quasi unmixed Artinian module A , the catenaricity of the ring $R/\text{Ann}_R A$, and the dimension of A .