

عنوان مقاله:

ON THE PROJECTIVE DIMENSION OF ARTINIAN MODULES

محل انتشار:

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خلاصه مقاله:

Let (R, \mathbf{m}) be a Noetherian local ring and M, N be two finitely generated $R\$ -modules. In this paper it is shown that R is a Cohen-Macaulay ring if and only if R admits a non-zero Artinian R-module A of finite projective dimension; in addition, for all such Artinian R-modules A, it is shown that \mathbf{p}_R , $A=\dim R$. Furthermore, as an application of these results it is shown that \mathbf{p}_R it is shown that \mathbf{p}_R in \mathbf{p}_R , \mathbf{p}_R in \mathbf{p}_R in \mathbf{p}_R in \mathbf{p}_R in \mathbf{p}_R and each integer \mathbf{p}_R in \mathbf{p}_R in \mathbf{p}_R and each integer \mathbf{p}_R in \mathbf{p}_R in \mathbf{p}_R and each integer \mathbf{p}_R in \mathbf{p}_R in \mathbf{p}_R in \mathbf{p}_R and each integer \mathbf{p}_R in \mathbf{p}_R

کلمات کلیدی:

projective dimension, flat dimension, injective dimension, generalized localcohomology module, local cohomology module

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