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On Cohen-Macaulay rings

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Abstract: In this paper, we use a characterization of R -modules N such that $fd_R N = pd_R N$ to characterize Cohen-Macaulay rings in terms of various dimensions. This is done by setting N to be the d th local cohomology functor of R with respect to the maximal ideal where d is the Krull dimension of R .

Keywords: injective, precovers, preenvelopes, canonical module, Cohen-Macaulay, n -Gorenstein, resolvent, resolutions

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