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*A New Characterization of Right Noetherian Rings*

It is well known that a ring  $R$  is right noetherian if and only if every direct sum of injective right  $R$ -modules is injective. We show that a ring  $R$  is right noetherian if and only if for every injective right  $R$ -module  $M$ , each essential extension of  $M^{(\aleph_0)}$  is a direct sum of modules that are either injective or projective.

This is a joint work with Pedro A. Guil-Asensio and S. K. Jain.