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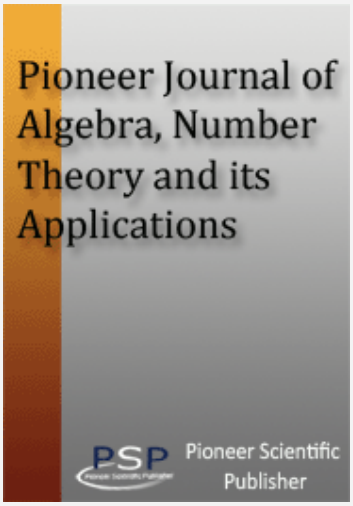

SOCLE-FINE CHARACTERIZATION OF SOME INTERESTING RINGS

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Abstract

A class Ω of left modules over a unitary ring is said to be soclefine if for every pair M, N in Ω: M and N are isomorphic if and only if their socles are isomorphic. In this note, we will characterize, using the soclefine notion, the noetherian rings, hereditary noetherian rings, $\mathbb{Q}$ -rings and hereditary $\mathbb{Q}$ -rings.

Keywords and phrases: soclefine notion, the noetherian rings, hereditary noetherian rings, $\mathbb{Q}$ -rings and hereditary $\mathbb{Q}$ -rings.