

A balance result over generalized coherent rings

By JUNPENG WANG (Lanzhou) and GANG YANG (Lanzhou)

Abstract. We introduce the notion of generalized coherent rings and characterize the Gorenstein global dimension of such rings. As applications, we obtain that the invariants $\text{spli}(R)$ and $\text{silp}(R)$ coincide for a commutative generalized coherent ring R , where $\text{spli}(R)$ (resp. $\text{silp}(R)$) denotes the supremum of the projective (resp. injective) dimensions of all injective (resp. projective) R -modules.

JUNPENG WANG
DEPARTMENT OF MATHEMATICS
NORTHWEST NORMAL UNIVERSITY
LANZHOU 730070
P. R. CHINA

GANG YANG
DEPARTMENT OF MATHEMATICS
LANZHOU JIAOTONG UNIVERSITY
LANZHOU 730070
P. R. CHINA

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