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Strongly J-clean group rings. (English) Zbl 1313.16036

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Summary: An element of a ring is called strongly J-clean provided that it can be written as the sum of an idempotent and an element in its Jacobson radical that commute. A ring is called strongly J-clean if each of its elements is strongly J-clean. In this article, we investigate some properties of strongly J-clean group rings.

MSC:

16S34 Group rings

16U60 Units, groups of units (associative rings and algebras)

Keywords:

clean rings; strongly J-clean rings; strongly J-clean group rings; idempotents; Jacobson radical