

Year: 2011

Vol.: 78

Fasc.: 3-4

Title: A note on n -clean group rings

Author(s): Angelina Y. M. Chin and Kiat Tat Qua

Let R be an associative ring with identity. An element $x \in R$ is clean if x can be written as the sum of a unit and an idempotent in R . R is said to be clean if all of its elements are clean. Let n be a positive integer. An element $x \in R$ is n -clean if it can be written as the sum of an idempotent and n units in R . R is said to be n -clean if all of its elements are n -clean. In this paper we obtain conditions which are necessary or sufficient for a group ring to be n -clean.

Address:

Angelina Y. M. Chin
Institute of Mathematical Sciences
University of Malaya
50603 Kuala Lumpur
Malaysia

Address:

Kiat Tat Qua
Institute of Mathematical Sciences
University of Malaya
50603 Kuala Lumpur
Malaysia