

GENERALIZED CENTROID OF HYPERRINGS

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Abstract

In this paper, the notion of generalized centroid is applied to hyperrings. We show that the generalized centroid C of a semiprime hyperring R is a regular hyperfield. Also, we show that if C is a hyperfield, then R is a prime hyperring.

Keywords: hyperring, semiprime hyperring, generalized centroid, regular hyperring.

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