

GENERALIZED CENTROID OF HYPERRINGS

HASRET YAZARLI

Sivas Cumhuriyet University, Faculty of Science
Department of Mathematics, Sivas, Turkey
e-mail: hyazarli@cumhuriyet.edu.tr

BIJAN DAVVAZ

Yazd University, Department of Mathematics
Yazd, Iran
e-mail: davvaz@yazd.ac.ir

AND

DAMLA YILMAZ

Erzurum Technical University, Faculty of Science
Department of Mathematics, Erzurum, Turkey
e-mail: damla.yilmaz@erzurum.edu.tr

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 hyperring. Also, we show that if C is a hyperfield, then R is a prime hyperring.

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

2010 Mathematics Subject Classification: 20N20, 16Y20.

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Received 28 October 2020
Revised 3 November 2020
Accepted 3 November 2020