

SOME RESULTS OF REVERSE DERIVATION ON PRIME AND SEMIPRIME Γ -RINGS

NESHTIMAN NOORALDEEN SULIMAN

Department of Mathematics
College of Education
Salahadeen University
Erbil, Iraq

e-mail: vananesh@gmail.com

Abstract

In the present paper, it is introduced the definition of a reverse derivation on a Γ -ring M . It is shown that a mapping derivation on a semiprime Γ -ring M is central if and only if it is reverse derivation. Also it is shown that M is commutative if for all $a, b \in I$ (I is an ideal of M) satisfying $d(a) \in Z(M)$, and $d(a \circ b) = 0$.

Keywords: Prime Γ -rings, semiprime Γ -rings, derivations, reverse derivations.

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