

## ON SEMIPRIME GAMMA NEAR- RINGS

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### ABSTRACT

The main purpose of this paper is to study and investigate some results concerning permuting tri-derivations on semi prime  $\Gamma$ - near-rings  $M$ , when  $M$  be a 3-torsion free semi prime  $\Gamma$ -ring with satisfying  $x\alpha y\beta z = x\beta y\alpha z$  for all  $x, y, z \in M$ ,  $\alpha, \beta \in \Gamma$ . If there exists a permuting tri-derivation  $D: M \times M \times M \rightarrow M$ , where  $d$  is the trace of  $D$

**KEYWORDS:** Tri-Derivation, Semi Prime  $\Gamma$ -Ring, Commutative Ideal, Commuting Map, Permuting Map