VI International Conference on Mathematics and its Applications in Science and Engineering
(ICMASE 2025)

ICMASE 2025

REVERSIBILITY OF RINGS WITH RESPECT TO THE ZHOU RADICAL

Tugce Pekacar Calci[1], Serhat Emirhan Soycan[2,*]

[1]*Ankara University, Department of Mathematics*
[2]*Ankara University, Graduate School of National and Applied Sciences*

ABSTRACT

In my talk, I will present the results from the article *"Reversibility of Rings with Respect to the Zhou Radical,"* coauthored with T. Calci. Let R be a ring with identity, and let $\delta(R)$ denote the Zhou radical of R. We define a ring R to be *δ-reversible* if, for all $a, b \in R$, the condition $ab = 0$ implies $ba \in \delta(R)$. In this presentation, I will discuss several properties of δ-reversible rings and examine various ring extensions that preserve δ-reversibility.

***K*eywords** Zhou radical · Reversible ring · δ-reversible ring · Ring extension

References

[1] Calci T. P., Soycan S. E., Reversibility of rings with respect to the Zhou Radical, https://arxiv.org/abs/2405.08942.

[*] *Corresponding Author's E-mail: sesoycan@ankara.edu.tr*