

The absorption laws and the reverse order laws of two kinds of generalized core inverses

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As an extension of the core inverse, in 2014, Manjunatha Prasad and Mohana, Malik and Thome introduced, respectively, the core-EP inverse and the DMP inverse which both exist for arbitrary square complex matrices. These two generalized core inverses can be discussed in a ring with involution. In this talk, we will give necessary and sufficient conditions for which the absorption laws and the reverse order laws of two generalized core inverses hold in a ring with involution.

References

- [1] Yuefeng Gao*, Jianlong Chen, Long Wang, Honglin Zou. Absorption laws and reverse order laws for generalized core inverses, Comm. Algebra 49:8 (2021) 3241-3254.