Moore-Penrose invertibility in involutory rings: the case

\[ aa^\dagger = bb^\dagger \]

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Abstract

In this paper, we consider Moore-Penrose invertibility in rings with a general involution. Given two von Neumann regular elements $a, b$ in a general ring with an arbitrary involution, we aim to give necessary and sufficient conditions to $aa^\dagger = bb^\dagger$. As a special case, EP elements are considered.

References


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