

ALGEBRAIC PROPERTIES OF THE SET OF OPERATORS WITH 0 IN THE CLOSURE OF THE NUMERICAL RANGE

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Abstract. Sets of operators which have zero in the closure of the numerical range are studied. For some particular sets $\mathcal{T} \subseteq \mathcal{B}(\mathcal{H})$, we characterize the set of all operators $A \in \mathcal{B}(\mathcal{H})$ such that $0 \in W(TA)$ for every $T \in \mathcal{T}$.

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