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About operator weighted shift

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摘要

关键词 [Operator weighted shift](#) [Strongly irriducible operator](#) [Similarity](#) [Commutant](#) [Jacobson radical](#)

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Abstract Let \mathcal{H} be a complex seperable Hilbert space and $\mathcal{L}(\mathcal{H})$ denote the collection of bounded linear operators on \mathcal{H} . For an operator $T \in \mathcal{L}(\mathcal{H})$, $\text{rad}\{A\}^{\prime}$ denotes the Jacobson radical of the commutant of A . This paper characterizes the similarity of strongly irreducible operator weighted shift in terms of $\{A\}^{\prime} \cap \text{rad}\{A\}^{\prime}$. Moreover, we suggest some ways to determine when an operator weighted shift is strongly irreducible and when its commutant is commutative.

Key words [Operator weighted shift](#) [Strongly irriducible operator](#) [Similarity](#) [Commutant](#) [Jacobson radical](#)

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