The Commutant of an Operator with Bounded Conjugation Orbits and $C_0$–Contractions

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Abstract: Let $A$ be an invertible bounded linear operator on a complex Banach space, $\{A\}'$ the commutant of $A$ and $B_A$ the set of all operators $T$ such that $\sup_{n \geq 0} \|A^n T A^{-n}\| < +\infty$. Equality $\{A\}' = B_A$ was studied by many authors for different classes of operators. In this paper we investigate a local version of this equality and the case where $A$ is a $C_0$–contraction.

Key words: Operators, commutant, bounded conjugation orbit, $C_0$–contraction.

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REFERENCES


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