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A Lower Bound for the Differences of Powers of Linear Operators

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摘要

关键词   Esterle--Berkani's conjecture   Quasi-nilpotent linear operator   Differences of powers   Decay

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Abstract Let T be a bounded linear operator in a Banach space, with $\sigma(T) = \{1\}$. In 1983, Esterle--Berkani's conjecture was proposed for the decay of differences $\left(I - T \right) T^{n}$ as follows: Either $$\liminf_{n \to \infty}{(n + 1) \|\left (I - T \right) T^{n}\|} \geq 1/e$$ or $T = I$. We prove this claim and discuss some of its consequences.

Key words Esterle--Berkani's conjecture   Quasi-nilpotent linear operator   Differences of powers   Decay

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