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On the Equivalence of Weyl and Generalized Weyl Theorem

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摘要

关键词 [SB\\$-Fredholm operator](#) [Weyl's theorem](#) [generalized Weyl's theorem](#) [Sa\\$-Weyl's theorem](#) [generalized Sa\\$-Weyl's theorem](#) [poles](#)

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Abstract We know that an operator T acting on a Banach space satisfying generalized Weyl's theorem also satisfies Weyl's theorem. Conversely we show that if all isolated eigenvalues of T are poles of its resolvent and if T satisfies Weyl's theorem, then it also satisfies generalized Weyl's theorem. We give also a similar result for the equivalence of Sa\$-Weyl's theorem and generalized Sa\$-Weyl's theorem. Using these results, we study the case of polaroid operators, and in particular paranormal operators.

Key words [SB\\$-Fredholm operator](#) [Weyl's theorem](#) [generalized Weyl's theorem](#) [Sa\\$-Weyl's theorem](#) [generalized Sa\\$-Weyl's theorem](#) [poles](#)

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