

On generalized a -Browder's theorem

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In this talk, we give several necessary and sufficient conditions for a Hilbert space operator satisfying generalized a -Browder's and a -Weyl's theorems. As an application, we show that if T is an analytically paranormal operator then generalized Weyl's theorem holds for $f(T)$ for each $f \in H(\sigma(T))$, where $H(\sigma(T))$ denotes the set of all analytic functions in an open neighborhood of $\sigma(T)$.