

Consistent invertibility and perturbation for property (UW_E)

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Abstract

Let $B(\mathcal{H})$ be the algebra of all bounded linear operators on infinite dimensional complex separable Hilbert space \mathcal{H} and $G(\mathcal{H})$ be the collection of all invertible operators on \mathcal{H} . An operator $T \in B(\mathcal{H})$ is said to be consistently invertible, if for each $S \in B(\mathcal{H})$, TS and ST are both or neither in $G(\mathcal{H})$. In this talk, we discuss the stability of property (UW_E) , a variant of Weyl's theorem, under some commuting perturbations using the induced spectrum.

Keywords

Property (UW_E) , Perturbation, Consistent in invertibility.

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