

PROJECTIONS AND ISOLATED POINTS OF PARTS OF THE SPECTRUM

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ABSTRACT. In this paper, we relate the existence of certain projections, commuting with a bounded linear operator $T \in L(X)$ acting on Banach space X , with the generalized Kato decomposition of T . We also relate the existence of these projections with some properties of the quasi-nilpotent part $H_0(T)$ and the analytic core $K(T)$. Further results are given for the isolated points of some parts of the spectrum.

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