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*Almost invariant subspaces*

A closed subspace of a Banach space $\mathcal{X}$ is almost-invariant for a collection $\mathcal{S}$ of bounded linear operators on $\mathcal{X}$ if for each $T \in \mathcal{S}$ there exists a finite-dimensional subspace $\mathcal{F}_T$ of $\mathcal{X}$ such that $T\mathcal{Y} \subseteq \mathcal{Y} + \mathcal{F}_T$. In this paper, we study the existence of almost-invariant subspaces of infinite dimension and codimension for various classes and sets of Banach and Hilbert space operators.

This is joint work with A. Popov and H. Radjavi.