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Some recent results on constrictive operators

Let X be a Banach space. An operator $T \in \mathcal{L}(X)$ is called *constrictive* if there exists a compact $A \subseteq X$ such that

$$\lim_{n\to\infty} \operatorname{dist}(T^n x, A) = 0 \quad (\forall x \in X, \|x\| \leq 1).$$

T is called *quasi-constrictive* if its *stable space*

$$X_0(T) = \{x \in X : \lim_{n\to\infty} \|T^n x\| = 0\}$$

is closed and of finite co-dimension. We discuss some conditions on T under which T is constrictive or quasi-constrictive.