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A remark on uniquely remotal sets. (English summary)

Let $X$ be a Banach space. A bounded subset $T$ of $X$ is said to be uniquely remotal if for every $x \in X$ there exists a unique $q_T(x) \in T$ with $\|x - q_T(x)\| = \sup_{y \in T} \|x - y\|$. It is still open whether uniquely remotal sets are singletons, though this is known for finite-dimensional spaces or compact sets. In this paper this conjecture is shown for $l^\infty$-sums of Banach spaces and alternative JB-algebras.

Reviewed by Horst Behncke

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