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ON σ-CHEBYSHEV SUBSPACES OF BANACH SPACES

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Abstract.

σ-Chebyshev subspaces of a Banach space X are defined as those in which the set of best approximants of any vector x in X is non-empty and σ-compact. Moreover, it is shown that there exists a proximinal subspace G of X which is σ-Chebyshev, but is not quasi-Chebyshev in X. Also, some other related results are presented.

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