Electronic Journal: Southwest Journal of Pure and Applied Mathematics
Internet: http://rattler.cameron.edu/swjpam.html
ISBN 1083-0464
Issue 2 December 2001, pp. 1 – 6
Submitted: April 4, 2001. Published: December 31, 2001

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.

1991 A.M.S (MOS) Subject Classification Codes:. 46B25, 46A20, 46A25, 41A65.

Keywords and Phrases:. σ-Chebyshev subspace, Quasi-Chebyshev subspace, Reflexive Banach space.

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