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Relative Chebyshev Centers in $L_\infty(\mu, X)$

Let X be a Banach space and Y a weakly $\mathcal{K}$-analytic subspace of X. In this paper we study the simultaneous proximinality in the space $L_\infty(\mu, X)$. In this sense we have proved that $L_\infty(\mu, Y)$ is simultaneously proximinal in $L_\infty(\mu, X)$ if, and only if, Y is simultaneously proximinal in X.