

## Abstract

Let  $L_w'$  denote the assignment which associates with each pair of Banach spaces  $X, Y$ , the vector space  $L_w'(X, Y)$  and  $K(X, Y)$  be the space of all compact linear operators from  $X$  to  $Y$ . Let  $T \in L_w'(X, Y)$  and suppose  $(T_n) \subset K(X, Y)$  converges in the dual weak operator topology ( $w'$ ) of  $T$ . Denote by  $K_u((T_n))$  the finite number given by  $K_u((T_n)) := \sup \{ \max \{ \|T_n\|, \|T - 2T_n\| \} : n \in \mathbb{N} \}$ . The  $u$ -norm on  $L_w(X, Y)$  is then given by  $\|T\|_u := \inf \{ K_u((T_n)) : T = w'\text{-}\lim T_n, n T_n \in K(X, Y) \}$ . It has been shown that  $(L_w(X, Y), \|\cdot\|_u)$  is a Banach operator ideal. We find conditions for  $K(X, Y)$  to be an unconditional ideal in  $(L_w(X, Y), \|\cdot\|_u)$ .