Ioana Ghenciu* (ioana.ghenciu@uwrf.edu), Department of Mathematics, 410 S. Third Street, River Falls, WI 54022. Properties $(V)$ and $(wV)$ in projective tensor products.

We give sufficient conditions for a subset of $K(X, Y^*) = L(X, Y^*)$ to be relatively weakly compact. A Banach space $X$ has property $(V)$ (resp. $(wV)$) if every $V$-subset of $X^*$ is relatively weakly compact (resp. weakly precompact).

We prove that the projective tensor product $X \otimes \pi Y$ has property $(V)$ (resp. $(wV)$), when $X$ has property $(V)$ (resp. $(wV)$), $Y$ has property $(V)$, and $W(X, Y^*) = K(X, Y^*)$. (Received July 14, 2014)