Title: Weak compactness of vector measures on topological spaces

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Let $X$ be a completely regular Hausdorff space, $E$ a quasi-complete locally convex space, $C_b(X)$ the space of all bounded, scalar-valued continuous functions on $X$, and $\mathcal{B}(X)$ and $\mathcal{B}_0(X)$ be the classes of Borel and Baire subsets of $X$. We study the subsets of the spaces $M_t(X, E)$, $M_\tau(X, E)$, $M_\sigma(X, E)$ of respectively tight, $\tau$-smooth, and $\sigma$-smooth, $E$-valued measures on $X$ for weak compactness.

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