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, τ-smooth, and σ-smooth, E-valued measures on X for weak compactness.

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