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Nuclear operators on spaces of bounded continuous functions with strict topologies

Let X be a completely regular Hausdorff space and F be a Banach space. Let $C_b(X)$ denote the space of all bounded continuous scalar functions defined on X, equipped with the natural strict topology β_t. We study $(\beta_t, \|.\|_F)$-continuous nuclear operators $T : C_b(X) \to F$ in terms of their representing Borel vector measures. In particular, we obtain a Bochner type representation of these operators.

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