J.C. Ferrando

A note on copies of c_0 in spaces of weak* measurable functions

Comment.Math.Univ.Carolinae 41,4 (2000) 761-764.

Abstract: If (Ω, Σ, μ) is a finite measure space and X a Banach space, in this note we show that $L^1_{w^*}(\mu, X^*)$, the Banach space of all classes of weak* equivalent X^*-valued weak* measurable functions f defined on Ω such that $\|f(\omega)\| \leq g(\omega)$ a.e. for some $g \in L_1(\mu)$ equipped with its usual norm, contains a copy of c_0 if and only if X^* contains a copy of c_0.

Keywords: weak* measurable function, copy of c_0, copy of ℓ_1
AMS Subject Classification: 46G10, 46E40