



Dunford-Pettis v.s. Eberlein-Šmulian Theorems

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Abstract

In this frame of a general duality i.e. an arbitrary function D defined on a product $X \times Y$ with values in a metric space or more generally an uniform space, we define the uniform respectively the weak topology on X and Y and we prove how the compactness property of X and Y are equivalent.

Particularly we refer to the famous result of Dunford-Pettis or Eberlein-Šmulian.