Separable complementation properties and almost-disjoint families

Jesús Ferrer

Abstract

Inside the frame of non-separable real Banach spaces, we study and try to characterize some complementation properties such as the Separable Complementation Property (SCP) and the Controlled Separable Complementation Property (CSCP). If $K_A$ is the Mrówka compact defined by the almost-disjoint family $A$, we show that the class formed by the spaces $C(K_A)$ turns out to be quite useful in order to separate these complementation properties.

References


[20] A. Sobczyk, Projection of the space (m) on its subspace (c0), Bull. Amer. Math. Soc, 47, (1941), 938-947.