## ARE EBERLEIN-GROTHENDIECK SCATTERED SPACES $\sigma$ -DISCRETE?

ANTONIO AVILÉS AND DAVID GUERRERO SÁNCHEZ

## Abstract

A space X is Eberlein-Grothendieck if  $X \subset C_p(K)$  for some compact space K. In this paper we address the problem of whether such a space X is  $\sigma$ -discrete whenever it is scattered. We show that if  $w(K) \leq \omega_1$  then X is  $\sigma$ -discrete whenever X has height  $\omega_1$  and it is locally compact or locally countable. It is also proved that every Lindelöf Čech-complete scattered space is  $\sigma$ -compact.