Simon, P.

Applications of independent linked families. (English) Zbl 0615.54004

Topology theory and applications, 5th Colloq., Eger/Hung. 1983, Colloq. Math. Soc. János Bolyai 41, 561-580 (1985).

[For the entire collection see Zbl 0588.00022.]

Weak p-points and $\mathbb{C}$-OK points are used to prove the following results: (1) No infinite compact F-space is subhomogeneous. This generalizes Frolik's theorem that no infinite compact F-space is homogeneous. (2) An extremally disconnected space of weight $\leq \mathbb{C}$ is homeomorphic to a $\mathbb{C}$-OK subset of ω^*. This generalizes the fact that such spaces embed in ω^*. (3) There are $2^{\mathbb{C}}$ pairwise RK-incomparable RF-minimal points in ω^*, where RK is the Rudin-Keisler order, and RF the Rudin- Frolik order. This generalizes the theorem of Shelah that there are $2^{\mathbb{C}}$ pairwise RK-incomparable points in ω^*.

Reviewer: J.Roitman

MSC:

54A25	Cardinality properties (cardinal functions and inequalities, discrete subsets)	Cited in **4** Documents
54D40	Remainders in general topology	

Keywords:

Weak p-points; *bbfC*-OK points; compact F-space; extremally disconnected space; RF-minimal points; Rudin-Keisler order; Rudin-Frolik order; RK-incomparable points