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The subspace of weak P -points of $\mathbb{N}^$*

Comment.Math.Univ.Carolin. 56,2 (2015) 231–236.

Abstract: Let W be the subspace of $\mathbb{N}^*$ consisting of all weak P -points. It is not hard to see that W is a pseudocompact space. In this paper we shall prove that this space has stronger pseudocompact properties. Indeed, it is shown that W is a p -pseudocompact space for all $p \in \mathbb{N}^*$.

Keywords: p -pseudocompactness; ultrapseudocompactness; strongly pseudocompactness; strongly p -pseudocompactness; weak P -points; $\mathfrak{c}$ -OK points

AMS Subject Classification: Primary 54A20, 54A25, 54D45, 54D99; Secondary 54C45, 54D40, 54D80

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