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Maximal pseudocompact spaces

Comment.Math.Univ.Carolinae 35,1 (1994) 127-145.

Abstract: Maximal pseudocompact spaces (i.e. pseudocompact spaces possessing no strictly stronger pseudocompact topology) are characterized. It is shown that submaximal pseudocompact spaces whose pseudocompact subspaces are closed need not be maximal pseudocompact. Various techniques for constructing maximal pseudocompact spaces are described. Maximal pseudocompactness is compared to maximal feeble compactness.

Keywords: maximal pseudocompact, maximal feebly compact, submaximal topology

AMS Subject Classification: Primary 54A10; Secondary 54C30