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Monotone normality and extension of functions

Comment.Math.Univ.Carolinae 36,3 (1995) 563-578.

Abstract: We provide a characterisation of monotone normality with an analogue of the Tietze-Urysohn theorem for monotonically normal spaces as well as answer a question due to San-ou concerning the extension of Urysohn functions in monotonically normal spaces. We also extend a result of van Douwen, giving a characterisation of K_0 -spaces in terms of semi-continuous functions, as well as answer another question of San-ou concerning semi-continuous Urysohn functions.

Keywords: monotonically normal, extension of functions, Tietze, Urysohn, K_1 , K_0

AMS Subject Classification: Primary 54C20; Secondary 54E