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Pairwise monotonically normal spaces

Comment.Math.Univ.Carolinae 32,3 (1991) 567-579.

Abstract: We introduce and study the notion of pairwise monotonically normal space as a bitopological extension of the monotonically normal spaces of Heath, Lutzer and Zenor. In particular, we characterize those spaces by using a mixed condition of insertion and extension of real-valued functions. This result generalizes, at the same time improves, a well-known theorem of Heath, Lutzer and Zenor. We also obtain some solutions to the quasi-metrization problem in terms of the pairwise monotone normality.

Keywords: pairwise monotonically normal space, quasi-metrizable bitopological space, pairwise stratifiable space, pairwise compact space

AMS Subject Classification: 54E55, 54D15, 54C30, 54E35, 54E20