

Normality in terms of distances, contractions, and extensions of functions

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The main purpose of this talk is to explore normality in terms of distances between points and sets. The appropriate setting for these investigations is the category of approach spaces, but the results have (quasi)-metric counterparts in terms of non-expansive maps.

We begin by situating what normality is and what difficulties have to be overcome to generalize this. We then try to find a suitable generalization of normality, which can be used to find useful Urysohn and Tietze type extension theorems.