

On limit sets and equicontinuity in the hyperspace of continua in dimension one

DOMAGOJ JELIĆ*

University of Split
djelic@pmfst.hr

Whenever we are given a selfmap f of a compact metric space X , we can associate with it the induced mappings \bar{f} and \tilde{f} on the hyperspace 2^X of compact subsets of X and the hyperspace $C(X)$ of continua in X , respectively, both defined in a natural way.

In this talk we will discuss relations between some properties of base map and the map induced on the hyperspace of continua, with emphasis on one-dimensional spaces as the base space X . In particular, we present the structure of ω -limit sets of the induced map on the hyperspace of continua and prove its almost equicontinuity in the case of certain base spaces.

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