An arcwise disconnecting interval and mixing maps on the $\sin\left(\frac{1}{x}\right)$-continuum

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Abstract

We will show theorems on dynamics on spaces with an arcwise disconnecting interval and entropy of continuous maps defined on the $\sin\left(\frac{1}{x}\right)$-continuum. In particular, properties such as transitivity and mixing are considered, and lower entropy bounds in the class of these maps.