

On topological entropy of compact invariant subsets of real line maps

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For a continuous map f of the real line let $\text{ent} f$ denote the supremum of topological entropies of f_K , where K runs over all compact invariant subsets of the real line. It is proved that the best lower bound for $\text{ent} f$ when f is topologically transitive is $\log \sqrt{3}$ and it is not attained.

This theorem may be considered as a completion and correction of results announced in the literature.