

Topological entropy for closed subsets of the unit square

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We generalize the definition of topological entropy due to Adler, Konheim, and McAndrew to set-valued functions from a closed subset of the interval to closed subsets of the interval. We view these set-valued functions, via their graphs, as closed subsets of $[0, 1]^2$. We compute topological entropy for various examples and finally give an example of a closed subset of the square with 0 entropy, but if any other point of the square is added, the new set has infinite entropy.