

Newhouse, Sheldon E.

Continuity properties of entropy. (English) Zbl 0676.58039
Ann. Math. (2) 129, No. 2, 215-235 (1989).

Using the notion of local entropy, the author obtains an upper bound on the defect in uppersemicontinuity of the topological and metric entropies of C^r self maps, $r > 1$, of C^p manifolds, $p > 1$. For C^r diffeomorphisms, $r > 1$, of positive entropy, necessary and sufficient conditions are given for the existence of hyperbolic measures of maximal entropy.

Reviewer: R.Cowen

MSC:

[37A99](#) Ergodic theory

Cited in **7** Reviews
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Keywords:

local entropy; topological and metric entropies; hyperbolic measures

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