

[Martens, Marco](#)

Distortion results and invariant Cantor sets of unimodal maps. (English) Zbl 0809.58026
[Ergodic Theory Dyn. Syst.](#) 14, No. 2, 331-349 (1994).

The author proves that Cantor attractors of S -unimodal maps have Lebesgue measure zero. A distortion theory is developed for these maps. It is proved, that every S -unimodal map not having periodic attractors has weak-Markov property (this means, that the map has uniform good distortion properties).

Reviewer: [Yu.Latushkin \(Columbia\)](#)

MSC:

[37A99](#) Ergodic theory
[37D99](#) Dynamical systems with hyperbolic behavior

Cited in **1** Review
Cited in **32** Documents

Keywords:

S -unimodal maps; distortion theory

Full Text: [DOI](#) [arXiv](#)

References:

- [1] DOI: 10.2307/1971501 · Zbl 0708.58007 · doi:10.2307/1971501
- [2] DOI: 10.1007/BF01205554 · Zbl 0625.58027 · doi:10.1007/BF01205554
- [3] Blokh, Measurable dynamics of S -unimodal maps of the interval (1990) · Zbl 0790.58024
- [4] DOI: 10.1007/BF01077983 · Zbl 0623.14026 · doi:10.1007/BF01077983
- [5] Hofbauer, *Ergod. Th. & Dynam. Sys.* 1 pp 159– (1981)
- [6] Misiurewicz, *Publ. Math. IHES* 53 pp 17– (1981) · Zbl 0477.58020 · doi:10.1007/BF02698686
- [7] DOI: 10.1007/BF02392981 · Zbl 0761.58007 · doi:10.1007/BF02392981
- [8] Keller, *Ergod. Th. & Dynam. Sys.* 10 pp 717– (1990)
- [9] Jacobson, *Metric properties of non-renormalizable* (1991)
- [10] DOI: 10.1007/BF01212280 · Zbl 0595.58028 · doi:10.1007/BF01212280

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