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**Statistical stability for robust classes of maps with non-uniform expansion.** (English)

Zbl 1067.37034

Ergodic Theory Dyn. Syst. 22, No. 1, 1-32 (2002).

The authors deal with properties of SRB measures. To this end, they consider open sets of transformations in a manifold  $\mathcal{M}$ , exhibiting nonuniformly expanding behaviour in some invariant domain  $W \subset \mathcal{M}$ . Under some suitable assumptions on each transformations the authors prove that the Sinai-Ruelle-Bowen (SRB) measure varies continuously with the dynamics in the  $L^1$  norm. The authors present a concrete application as well.

Reviewer: [Messoud A. Efendiev \(Berlin\)](#)

**MSC:**

[37D25](#) Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)

[37C30](#) Functional analytic techniques in dynamical systems; zeta functions, (Ruelle-Frobenius) transfer operators, etc.

Cited in **1** Review  
Cited in **34** Documents

**Keywords:**

[nonuniform expansion](#); [stabilitiy](#); [SRB measure](#)

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