

Barreira, Luis; Pesin, Yakov B.

Lyapunov exponents and smooth ergodic theory. (English) Zbl 1195.37002

University Lecture Series 23. Providence, RI: American Mathematical Society (AMS) (ISBN 0-8218-2921-1/pbk). xii, 151 p. (2001).

This book is a revised and expanded version of the authors' 86-page survey [in: Smooth ergodic theory and its applications. Proceedings of the AMS summer research institute, Seattle, WA, USA, July 26-August 13, 1999. Providence, RI: American Mathematical Society (AMS). Proc. Symp. Pure Math. 69, 3-106 (2001; [Zbl 0996.37001](#))]. For the content, we may refer to the review there; the main differences are that this book contains more examples of dynamical systems with nonzero Lyapunov exponents, and that many proofs are given here in full detail.

MSC:

- [37-02](#) Research exposition (monographs, survey articles) pertaining to dynamical systems and ergodic theory
- [37D25](#) Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)
- [37C40](#) Smooth ergodic theory, invariant measures for smooth dynamical systems
- [37D40](#) Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)
- [37A30](#) Ergodic theorems, spectral theory, Markov operators

Cited in 1 Review Cited in 48 Documents
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