



Bernoulli equilibrium states for surface diffeomorphisms

[Omri Sarig](#)

(Submitted on 19 Jul 2011)

Suppose f is a $C^{1+\alpha}$ surface diffeomorphism, and m is an equilibrium measure of a Holder continuous potential. We show that if m has positive metric entropy, then f is measure theoretically isomorphic to the product of a Bernoulli scheme and a finite rotation.

Comments: 13 pages

Subjects: **Dynamical Systems (math.DS)**

MSC classes: 37D25 (primary) 37D25 (secondary)

Cite as: **arXiv:1107.3711 [math.DS]**

(or **arXiv:1107.3711v1 [math.DS]** for this version)

Submission history

From: Omri Sarig [[view email](#)]

[v1] Tue, 19 Jul 2011 13:33:28 GMT (17kb)

[Which authors of this paper are endorsers?](#)

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.DS

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1107](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

