

Hyperbolic structures for non-uniformly hyperbolic diffeomorphisms: existence and consequences.

We consider some hyperbolic structures introduced by Benedicks and Young for studying the decay of correlations of certain Hénon maps. We show that these structures exist in great generality for partially hyperbolic diffeomorphisms. We also show how they can be used to prove the continuity of the SRB measures in the Benedicks-Carleson parameters of Hénon maps.

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