
Dynamics of strongly dissipative diffeomorphisms of the disc with zero entropy

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Abstract

We consider the diffeomorphisms of the disc satisfying a dissipation assumption (it includes the dynamics of Hénon diffeomorphisms with Jacobian $< 1/4$.) We describe the dynamics of these systems when the topological entropy vanishes, in particular the renormalizations and the set of periods. This is a joint work with Enrique Pujals and Charles Tresser.

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