

Seminário de Sistemas Dinâmicos - 2023

Título:

Shub's example revisited

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Local: Sala 407 - Bloco H - Campus Gragoatá

Resumo

This is a joint work with Chao Liang, Radu Saghin and Fan Yang.

For a class of robustly transitive diffeomorphisms on T^4 introduced by Shub, satisfying an additional bunching condition, we show that there exists a C^2 -open and C^r ($2 \leq r \leq \infty$) dense subset \mathcal{U} , such that any two hyperbolic points of $g \in \mathcal{U}$ with stable index 2 are homoclinically related. As a consequence, every $g \in \mathcal{U}$ admits a unique homoclinic class associated to the hyperbolic periodic points with index 2, and this homoclinic class coincides with the whole ambient manifold. Moreover, $g \in \mathcal{U}$ admits at most one measure with maximal entropy.
