S. Crovisier

Title: Hyperbolicity far from homoclinic bifurcations (1): Topological hyperbolicity

Abstract:

We present a joint work with E. Pujals.

Any diffeomorphism on a compact manifold can be C^1-approximated by a diffeomorphism exhibiting a homoclinic bifurcation (a homoclinic tangency or a heterodimensional cycle) or by a diffeomorphism which is essentially hyperbolic (it has a finite number of hyperbolic attractors with an open and dense basin of attraction).