

Dynamics without attractors

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Abstract

If the dimension of the manifold is larger than or equal to 3, there is a locally residual set of diffeomorphisms with no attractor at all (joint work with C. Bonatti and M. Li).

In the talk of C. Bonatti, he briefly presented this example and discussed the notion of attractors. In this talk, we will present more results in this direction, and mainly give the idea of the results on locally generic diffeomorphisms without attractor.