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High dimension diffeomorphisms displaying infinitely many periodic attractors. (English)

Zbl 0817.58004

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The authors extend to higher dimensions the known two-dimensional result of *S. E. Newhouse* [Topology 13, 9-18 (1974; Zbl 0275.58016)] in the following main Theorem: Near any smooth diffeomorphism exhibiting a homoclinic tangency associated to a sectionally dissipative saddle, there is a residual subset of an open set of diffeomorphisms such that each of its elements displays infinitely many coexisting sinks (attracting periodic orbits).

Reviewer: [B.V.Loginov \(Ulyanovsk\)](#)

MSC:

[58C25](#) Differentiable maps on manifolds

[37C70](#) Attractors and repellers of smooth dynamical systems and their topological structure

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Keywords:

[periodic attractors](#); [smooth diffeomorphism](#); [homoclinic tangency](#); [sinks](#)

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