

Homoclinic trajectories of discrete dynamical systems

Robert Skiba

Nicolaus Copernicus University, Toruń, Poland
robo@mat.umk.pl

The talk is based on the joint work with Jacobo Pejsachowicz

Session: 7. Difference equations and their application in the mathematical modeling

In this talk we are going to present some new results about the existence of nontrivial homoclinic trajectories of a family of discrete, nonautonomous, asymptotically hyperbolic systems parametrized by a circle which bifurcate from the trivial branch of stationary solutions. The presented results are obtained by using the topological degree theory for C^1 -Fredholm maps of index zero.

References

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- [2] J. Pejsachowicz, R. Skiba, *Topology and homoclinic trajectories of discrete dynamical systems*, Discrete Contin. Dyn. Syst., Ser. S, Vol. 6, No. 4, 2013, 1077–1094.