

On some properties of discrete dynamical systems on dendrites

ZDENĚK KOČAN

(in collaboration with V. Kurková and M. Málek)

*Mathematical Institute in Opava,
Silesian University in Opava,
746 01 Opava,
Czech Republic*

E-mail address: zdenek.kocan@math.slu.cz

We consider some properties of discrete dynamical systems on compact metric spaces, such as positive topological entropy, the existence of a horseshoe, Lyapunov stability on the set of periodic points or the existence of a homoclinic trajectory. Here we survey the relations between the properties in case of systems on dendrites.