On properties of dynamical systems on dendrites

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We take a list of properties of continuous maps on compact metric spaces, e.g., the existence of an arc horseshoe, the positivity of topological entropy, the existence of a homoclinic trajectory, the existence of an omega-limit set containing two minimal sets, and others. Our aim is to find the relations between the properties in the case of dendrite maps. Here we present the known relations between the properties in this case, e.g., some examples of dendrite maps with properties which show that some implications between the properties do not hold in this case.

References

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