

Planar embeddings of inverse limit spaces of unimodal maps

JERNEJ ČINČ

(in collaboration with Ana Anušić (University of Zagreb) and Henk Bruin (University of Vienna))

Faculty of Mathematics, University of Vienna, Vienna, Austria

Given a point x from an inverse limit space of unimodal maps X we construct a planar embedding of X making the point x accessible from the complement of X . With this construction described in [1] we obtain uncountably many embeddings of X which are not equivalent to two well-known standard embeddings, described in [2] and [3]. I will also discuss the extendability of the shift homeomorphism σ on the plane for the constructed embeddings.

References

- [1] A. Anušić, H. Bruin, J. Činč, *Uncountably many planar embeddings of unimodal inverse limit spaces*, arXiv:1603.03887, Preprint (2016).
- [2] K. Brucks, B. Diamond, *A symbolic representation of inverse limit spaces for a class of unimodal maps*, Continuum Theory and Dynamical Systems, Lecture Notes in Pure Appl. Math. **149** (1995), 207–226.
- [3] H. Bruin, *Planar embeddings of inverse limit spaces of unimodal maps*, Topology Appl. **96** (1999), 191–208.