1109-37-182 **Jan P. Boroński***, jan.boronski@osu.cz, and **Piotr Oprocha**. More on constructions of R.H. Bing's pseudo-circle in surface dynamics.

In 1951 R.H. Bing constructed a pseudo-circle, the unique hereditarily indecomposable circle-like cofrontier. The pseudocircle, a fractal-like object, often makes its appearences as an attractor in dynamical systems. Motivated by the results in [1], we study circle maps f that give the pseudo-circle as the inverse limit space $\lim_{\leftarrow} (\mathbb{S}^1, f)$. We show that any such map exhibits the following properties: (1) there exists an entropy set for f with infinite topological entropy; i.e. $h(f) = \infty$; (2) the rotation set $\rho(f)$ is a nondegenerate interval.

This shows that the Anosov-Katok type constructions of the pseudo-circle as a minimal set in volume-preserving smooth dynamical systems, or in complex dynamics, obtained previously by Handel, Herman and Chéritat cannot be modeled on inverse limits.

[1] Boronski J.P.; Oprocha P., Rotational chaos and strange attractors on the 2-torus, Mathematische Zeitschrift DOI10.1007/s00209-014-1388-1 (Received January 31, 2015)