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Distributional chaos on tree maps: the star case

Abstract: Let $\mathbb{X} = \{z \in \mathbb{C} : z^n \in [0,1]\}$, $n \in \mathbb{N}$, and let $f : \mathbb{X} \to \mathbb{X}$ be a continuous map having the branching point fixed. We prove that f is distributionally chaotic iff the topological entropy of f is positive.