

Perturbing Misiurewicz exponential maps

Neil Dobbs, IBM, USA

Abstract.

In the exponential family $z \mapsto \lambda \exp(z)$, Misiurewicz maps are those for which the closure of the orbit of 0 is bounded and hyperbolic repelling. Such maps admit conservative, absolutely continuous, invariant measures. Kotus and Urbanski showed that such maps are topologically unstable. We show that Misiurewicz maps are a density point for hyperbolic parameters.