

Hausdorff dimension of the boundaries of Fatou components

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I will present results from Barański, K., Karpińska, B., Zdunik, A. (2009). Dimension properties of the boundaries of exponential basins. Bulletin of the London

Mathematical Society, 42, where authors prove that the boundary of a component U of the basin of an attracting periodic cycle (of period greater than 1) for an exponential map on the complex plane has Hausdorff dimension greater than 1 and less than 2. I will also present some ongoing research of achieving similar results for $f(z) = z + e^{-z}$.