

Periodic boundary points for transcendental maps

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In this talk, we will address the problem of finding periodic points in the boundary of attracting and parabolic basins, and some types of Baker domains. For rational maps, F. Przytycki and A. Zdunik proved that periodic points are always dense in the boundary of attracting or parabolic basins. We will explore the problems that appear when working with transcendental maps (either entire or meromorphic), and under which conditions one can prove that periodic boundary points are dense. New ideas and techniques to work with transcendental functions will be provided. This is joint work in progress with N. Fagella.