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Heights and post-critically finite rational maps

In complex holomorphic dynamics, the orbits of critical points reveal much about the behaviour of a map under iteration. Rational functions of a single variable for which all of these critical orbits are finite, then, have a special status. It turns out that all such functions either come from endomorphisms of elliptic curves, or correspond to algebraic points on certain varieties defined over \mathbb{Q} . In this talk we will present the result of joint work with Jones and Levy, specifically a p -adic analogue of an old result of Fatou, which bounds the heights of these points.