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Sebastian M. Marotta* (smarotta@math.bu.edu), Department of Mathematics, Boston University, 111 Cummington St., Boston, MA 02215. *The Complex Dynamics of Singularly Perturbed Rational Maps.*

We study the dynamics of a family of rational maps that are singular perturbations of complex polynomials. We focus on the topological characteristics of the Julia sets that arise. (Received January 16, 2008)