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**Elizabeth L. Fitzgibbon\*** (lizfitz@bu.edu), Department of Mathematics & Statistics, 111  
Cummington Mall, Boston, MA 02215, and **Stefano Silvestri**. *Rational Maps: Julia sets from  
accessible Mandelbrot sets are not homeomorphic.*

We investigate Julia sets of singularly perturbed complex rational maps of the form  $F_\lambda(z) = z^n + \frac{\lambda}{z^d}$ . For the case  $n = d = 2$ , we develop a topological invariant to show that two maps drawn from main cardioids of distinct accessible Mandelbrot sets containing a cycle of period  $m$  do not have homeomorphic Julia sets, unless these cardioids are complex conjugates of one another. We then consider cases with  $n = d > 2$ . (Received September 10, 2013)