

**ON THE HAUSDORFF DIMENSION OF THE
SIERPINSKI JULIA SET**

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We consider rational maps on the Riemann sphere of the form $F_\lambda(z) = z^n + \lambda/z^n$, $\lambda \in C$, $n \in N$, which can be regarded as singular perturbations of the polynomial z^n . It is known that for some parameters the Julia sets of such maps are homeomorphic to the Sierpinski carpet. We estimate the Hausdorff dimension of the Julia sets of these maps for some parameters.