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Approximation Properties of Julia Polynomials

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摘要

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Approximation Properties of Julia Polynomials

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Abstract Let G be a finite simply connected domain in the complex plane $\mathbb{C}$, bounded by a rectifiable Jordan curve L, and let $w=\varphi_{0}\left(z\right)$ be the Riemann conformal mapping of G onto $D\left(0,r_{0}\right) :=\left\{ w:\left\vert w\right\vert <r_{0}\right\}$, normalized by the conditions $\varphi_{0}\left(z_{0}\right) =0,\ \varphi_{0}^{\prime }\left(z_{0}\right) =1.$ In this work, the rate of approximation of φ_{0} by the polynomials, defined with the help of the solutions of some extremal problem, in a closed domain $\overline{G}$ is studied. This rate depends on the geometric properties of the boundary L.

Key words   conformal mapping   extremal polynomials   bounded boundary rotation   Dini-smooth boundary

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