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Constructive Theory of Analytic Functions on a Quasidisk

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Abstract. Let $G \subset \mathbb{C}$ be an arbitrary quasidisk, and f be analytic in G and continuous on \overline{G} . We prove two theorems (direct and inverse) establishing a connection between the rate of polynomial approximation of the function f on the boundary ∂G and its smoothness properties.

Keywords. Polynomial approximation, constructive description, quasidisk.

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