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**On Polynomials with a Prescribed Zero on a Quasicircle**

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**Abstract.** Let  $G \in \mathbb{C}$  be a Jordan domain and  $P$  a polynomial of degree at most  $n$ , satisfying  $|P(z)| \leq 1$  for  $z \in G$  and  $P(z_1) = 0$ , where  $z_1 \in \partial G$ . If  $G$  is bounded by a quasiconformal curve we asymptotically estimate  $|P(z_0)|$ , where  $z_0 \in G$ . In case  $z_1$  is on a sufficiently smooth portion of  $\partial G$ , our results correspond to the previous ones by Halász for the special case  $G = \mathbb{D}$ , the unit disk. We also obtain complete results in case  $z_1$  corresponds to a corner of  $\partial G$ .

**Keywords.** Polynomial, zeros, quasiconformal curve.

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