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**A Lower Estimate for the Distance of  
an Attracting Fixed Point to the Boundary of  
its Basin via Univalence Radius**

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**Abstract.** Let  $f$  be a meromorphic function, and  $z_0 \in \mathbb{C}$  its attracting fixed point with multiplier  $\lambda \neq 0$ . In this paper we consider the problem of finding a lower estimate for the largest number  $R(z_0, f)$ , such that if the function  $f$  is univalent and has no poles in the disk of radius  $r_u$  centered at  $z_0$ , then  $\lim_{n \rightarrow +\infty} f^n(z) = z_0$  whenever  $|z - z_0| < r_u R(z_0, f)$ . For every  $\varsigma \in e^{i\mathbb{R}}$ ,  $\varsigma \neq 1$ , and sufficiently small  $\lambda \in \{\varsigma\mu : 0 < \mu < 1\}$ , the sharp estimate is obtained.

**Keywords.** Basin of attraction, attracting fixed point, univalence radius.

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