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**Non-Tangential Limits
of Slowly Growing Analytic Functions**

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Abstract. We show that if f is an analytic function in the unit disc $\mathbb{D}$,

$$M(r,f) = \mathcal{O}((1-r)^{-\eta}) \qquad \text{as } r \to 1, \quad \text{for every } \eta > 0,$$

and

$$\sup_{0 \le r < 1} (1-r)^s |f'(r\zeta)| < \infty, \qquad \text{where } |\zeta| = 1,\ s < 1,$$

then f has a finite non-tangential limit at ζ. We also show that in this result it is not sufficient to assume that

$$M(r,f) = \mathcal{O}((1-r)^{-\eta}) \qquad \text{as } r \to 1, \quad \text{for some fixed } \eta > 0.$$

Keywords. Non-tangential limit, Fatou point, slowly growing analytic function.

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