GENERALIZED QUASIDISKS AND CONFORMALITY

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Abstract: We introduce a weaker variant of the concept of linear local connectivity, sufficient to guarantee the extendability of a conformal map $f: \mathbb{D} \to \Omega$ to the entire plane as a homeomorphism of locally exponentially integrable distortion. Additionally, we show that a conformal map as above cannot necessarily be extended in this manner if we assume that $\Omega$ is the image of $\mathbb{D}$ under a self-homeomorphism of the plane that has locally exponentially integrable distortion.

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