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CORRIGENDUM TO THE PAPER D. KALAJ, *ON KELLOGG'S THEOREM FOR QUASICONFORMAL MAPPINGS.* GLASG. MATH. J. 54, NO. 3, 599–603 (2012)

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The proof of the main result, precisely [1, Lemma 2.3] contains a small gap, namely the proof uses the wrong formula $\mu_{f^{-1}}(w) = -\mu_f(f^{-1}(w))$. It should be $\mu_{f^{-1}}(w) = -\left(\frac{p}{\bar{p}} \cdot \mu_f\right)(f^{-1}(w))$, where $p(z) = f_z(z)$. The gap can be overpass as follows. In view of [2, Theorem 7.1], Kellogg's theorem and previous part of the proof, the function $f(z) = \varphi(\hat{f}(z))$ is $C^{1,\alpha}(\overline{\mathbf{U}})$ and regular, i.e. it has not any singularity up to the boundary of the unit disk. Thus $\frac{p}{\bar{p}} \circ (f^{-1})$ is $\alpha/K-$Hölder continuous. This implies that $\mu_{f^{-1}}(w)$ is $\alpha/K-$Hölder continuous as the product of two $\alpha/K-$Hölder continuous functions. The proof of the rest of [1, Lemma 2.3] remains the same.

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REFERENCES

1. D. Kalaj: *On Kellogg's theorem for quasiconformal mappings.* Glasg. Math. J. 54, No. 3, 599–603 (2012).

2. O. LEHTO, K. I. VIRTANEN: *Quasiconformal mapping*, Springer-verlag, Berlin & New York, 1973.