

DIVERGENCE FORMS OF THE ∞ -LAPLACIAN

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Abstract

The central theme running through our investigation is the ∞ -Laplacian operator in the plane. Upon multiplication by a suitable function we express it in divergence form, this allows us to speak of weak ∞ -harmonic function in $\mathscr{W}^{1,2}$. To every ∞ -harmonic function u we associate its conjugate function v . We focus our attention to the first order Beltrami type equation for $h = u + v$.

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