

The asymptotic behavior of a class of ϕ -harmonic functions in Orlicz-Sobolev spaces

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The asymptotic behavior of the sequence $\{u_n\}$ of solutions for a class of inhomogeneous problems with prescribed Dirichlet data on the boundary is studied in the setting of Orlicz-Sobolev spaces. We prove that $u_n \rightarrow u_\infty$ uniformly in Ω as $n \rightarrow \infty$, where u_∞ is an ∞ -harmonic function satisfying the prescribed Dirichlet data on the boundary.

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