KATO'S INEQUALITIES UP TO THE BOUNDARY FOR A QUASILINEAR ELLIPTIC OPERATOR

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Abstract

Let Ω be a bounded smooth domain of \mathbb{R}^N . By Δ_p with 1 we denote*p* $-Laplacian. We prove that if <math>\Delta_p u$ is a finite measure in Ω , then under suitable assumptions on u, $\Delta_p u^+$ is also a finite measure in Ω up to the boundary $\partial \Omega$. *

Keywords: Kato's inequality, p-Laplace operator