A NOTE ON THE RELlich FORMULA
IN LIPsCHITZ DOMAINS

ALANO ANCONA

Abstract
Let $L$ be a symmetric second order uniformly elliptic operator in divergence form acting in a bounded Lipschitz domain $\Omega$ of $\mathbb{R}^N$ and having Lipschitz coefficients in $\Omega$. It is shown that the Rellich formula with respect to $\Omega$ and $L$ extends to all functions in the domain $D = \{ u \in H^1_0(\Omega); L(u) \in L^2(\Omega) \}$ of $L$. This answers a question of A. Chaïra and G. Lebeau.

Keywords. Rellich formula, Lipschitz domain, Harnack boundary principle.