

# A-Harmonic Differential Forms

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Oct. 18, 2007

## Abstract

We discuss the mutual integrability of  $p, q$ -harmonic tensors in John domains in  $\mathbb{R}^n$ . These are differential forms which satisfy related  $p$ -harmonic equations. The results generalize a Hardy-Littlewood integrability theorem for conjugate harmonic functions in the unit disk. Proofs use Poincaré and Caccioppoli inequalities. We also give an application to components of quasiregular mappings.