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Evans M Harrell* (harrell@math.gatech.edu), School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332-0160. *Hardy inequalities and the spectra of Laplace and p -Laplace operators.*

I will discuss a result of Boggio that implies Hardy-type inequalities, and will use the latter to derive some bounds on spectral gaps and estimates on eigenfunctions for PDEs containing p -Laplacians. Some of this work was joint with Fleckinger and de Thelin. (Received July 29, 2011)