

1037-35-40

John L Lewis* (john@ms.uky.edu), Mathematics Department, University of Kentucky,
Lexington, KY. *On partial differential equations of p Laplace Type.*

In this talk I will discuss recent work with coauthors on the p Laplacian and related operators. Possible topics include: (a) Boundary Harnack inequalities in Lipschitz and Reifenberg flat domains, (b) Regularity of the Lipschitz boundary in certain two phase free boundary problems modeled on the p Laplacian, (c) the p Martin boundary, and (d) the dimension of p harmonic measure. (Received January 11, 2008)