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John L Lewis, Lexington, KY 40506, and **Andrew L Vogel*** (alvogel@syr.edu), Syracuse, NY 13244. *Overdetermined boundary value problems, uniform rectifiability and symmetry*. Preliminary report.

We consider positive solutions to elliptic partial differential equations (of p Laplacian type) satisfying some overdetermined boundary conditions (expressed in terms of an associated measure) in a bounded domain D . These conditions yield the local uniform rectifiability of ∂D and also the expected symmetry theorem. (Received December 20, 2005)