1067-35-1543 **Björn Bennewitz**, Iceland, John L Lewis, Lexington, KY, Kaj Nyström, Umea, Sweden, and Andrew L Vogel* (alvogel@syr.edu), Syracuse, NY. Estimates for the dimension of *p*-harmonic measure in \mathbb{R}^n . Preliminary report.

For a positive solution u to the p-Laplace equation in a domain $\Omega \subset \mathbb{R}^n$ and vanishing on the boundary of Ω we associate a measure μ . For $p \ge n \ge 3$ and Ω a δ -Reifenberg flat domain for $\delta(p, n)$ small enough, the measure μ is concentrated on a set of σ -finite Hausdorff n-1 measure. For 1 the situation is more interesting as some examples involving $Wolff snowflakes demonstrate. The results here are similar to those obtained in <math>\mathbb{R}^2$ by Lewis, Nyström, Poggi-Corradini for Jordan domains bounded by quasicircles and simply connected domains. (Received September 21, 2010)