

1139-42-197

Steve Hofmann* (hofmanns@missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211. *Quantitative Rectifiability and absolute continuity of harmonic measure.*

We discuss recent progress in an ongoing program to characterize geometrically those open sets in Euclidean space, such that harmonic measure for the open set Ω is absolutely continuous, in a quantitative, scale invariant sense, with respect to surface measure on $\partial\Omega$. In part, this involves understanding the relationship between quantitative rectifiability of the boundary of Ω , and the boundary behavior of harmonic functions. (Received February 10, 2018)