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Jonas Azzam* (jazzam@mat.uab.cat), Carrer Benet Mercadé 21 1r1a, 08012 Barelona, Catalunya, Spain. *Tangent measures and harmonic measure.*

Tangent measures are obtained by zooming in on the support of a measure and taking weak limits. These were developed and studied by David Preiss, who used them to show that measures whose d -densities were positive and finite must be d -rectifiable. In this talk, we will discuss some old and new applications of tangent measures and blow-up techniques to study the behavior of harmonic measure. Here, given a domain Ω , the harmonic measure of a subset $A \subseteq \partial\Omega$ is just the probability that a brownian motion starting at a fixed pole in Ω first hits $\partial\Omega$ in A . This is joint work with Mihalis Mourgoglou and Xavier Tolsa. (Received January 30, 2016)