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A Dali Nimer*, nimer@uchicago.edu. *Singularities of uniformly asymptotically doubling measures.*

We say a Radon measure is uniformly optimally doubling if its doubling ratio converges uniformly to some function f . In this talk, we will prove that there exists n (depending on the function to which the doubling ratios converge) such that away from a set of Hausdorff dimension $n - 3$, the measure is n -rectifiable. (Received January 17, 2019)