## ON THE ANALYTIC CAPACITY AND CURVATURE OF SOME CANTOR SETS WITH NON-σ-FINITE LENGTH

Pertti Mattila

Abstract \_\_\_\_

We show that if a Cantor set E as considered by Garnett in **[G2]** has positive Hausdorff *h*-measure for a non-decreasing function *h* satisfying  $\int_0^1 r^{-3} h(r)^2 dr < \infty$ , then the analytic capacity of E is positive. Our tool will be the Menger three-point curvature and Melnikov's identity relating it to the Cauchy kernel. We shall also prove some related more general results.