1021-28-82 Xinhan Dong (xhdong@hunnu.edu.cn), Department of Mathematics, Hunnan Normal University, Chasha, Peoples Rep of China, and Ka-Sing Lau* (kslau@math.cuhk.edu.hk), Department of Mathematics, The Chinese University of Hong Kong, Hong Kong. Cauchy Transform on Sierpinski Gasket and Boundary Behavior. Preliminary report.

The Cauchy transform of a measures μ with support on K is defined as $F(z) = \int_{K} (z-w)^{-1} d\mu(w)$. We will discuss the boundary behavior of F(z) of the canonical Hausdorff measure on the Sierpinski gasket K and to answer a "Cantor set" conjecture on the image of F(z) due to Strichartz *et al.* (Received August 25, 2006)