1070-30-17   **Joseph A. Cima*** (`cima@email.unc.edu`), Dept. of Mathemtics, CB #3250, University of North Carolina, Chapel Hill, NC 27599. *Univalent functions related to Cauchy transforms.* Preliminary report.

Let $f(z)$ be an analytic function on the unit disc $\mathbb{D}$ which is the Cauchy transform of a finite Borel measure on the unit circle. By results of C. Pommerenke it can be shown that there is a normalized univalent function h on $\mathbb{D}$ and a positive number α so that f satisfies

$$h'(z) = e^{\alpha \int_0^z f(w)dw}$$

for z in the disc. We shall discuss some properties of the univalent function h in this setting. (Received December 03, 2010)