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**Lakshmi Roychowdhury\*** (roychowdhury1@utpa.edu), Dept of Mathematics, UTPA, 1201 West University Drive, Edinburg, TX 78539. *Optimal points for nonhomogeneous Cantor distributions.*

Let  $C$  be the Cantor set generated by the two mappings  $S_1(x) = \frac{1}{4}x$  and  $S_2(x) = \frac{1}{2}x + \frac{1}{2}$  on  $\mathbb{R}$ . Let  $P$  be the unique Borel probability measure on  $\mathbb{R}$ , where  $P$  is given by  $P = \frac{1}{4}P \circ S_1^{-1} + \frac{3}{4}P \circ S_2^{-1}$ . Then  $P$  has support the Cantor set  $C$ . For such a probability measure we have determined the  $n$ -optimal points and the  $n$ th quantization error for all  $n \geq 1$ . (Received September 16, 2014)