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Daniel J. Ingebretson*, 1400 E Hanna Ave, Indianapolis, IN 46227. *Dimension and differential structures on cookie-cutter Cantor sets.*

Each differential structure on a Cantor set is determined by a scaling function on its dual, which is defined symbolically. For smooth cookie-cutter Cantor sets, we will study the relations between the scaling function, differential structures, and the Hausdorff dimension of the Cantor set. (Received September 24, 2018)