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Dylan Airey, TX , and **Bill Mance*** (mance@unt.edu). *The Hausdorff dimension of sets of numbers defined by their Q -Cantor series expansions.*

Following in the footsteps of P. Erdős, A. Rényi, and T. Šalát we compute the Hausdorff dimension of sets of numbers whose digits with respect to their Q -Cantor series expansions satisfy various statistical properties. In particular, we consider difference sets associated with various notions of normality and sets of numbers with a prescribed range of digits. (Received February 02, 2015)