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Dylan Airey* (dylan.airey@utexas.edu) and **Bill Mance**. *Unexpected distribution phenomenon resulting from Cantor series expansions.*

We explore in depth the number theoretic and statistical properties of certain sets of numbers arising from their Cantor series expansions. As a direct consequence of our main theorem we deduce numerous new results as well as strengthen the known ones. (Received September 17, 2015)