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**Geremias Polanco\*** (gpens@hampshire.edu), 893 West St, Hampshire college, School of Natural Science, Amherst, MA 01002, and **Daniel Schultz** and **Alexandru Zaharescu**. *On the average spacing of fractional parts of sequences generated by irrational numbers.*

In this talk we review some results of the nearest neighbor distribution for the sequence of fractional parts given by  $n^k\alpha$ , where  $\alpha$  is an irrational number. We will show a distribution arising from the case  $k = 1$  that is directly derived from the three distance theorem. (Received September 21, 2018)