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Hoi Nguyen*, 231 W 18th Ave, Columbus, OH 43210. *On roots of random trigonometric polynomials.*

We show that for various general ensembles of random trigonometric polynomials with iid coefficients the variance of the number of roots is asymptotically linear in terms of the expectation; furthermore the multiplicative constant in this linear relationship depends only on the kurtosis of the common distribution of the polynomial's coefficients. We will also show that the number of roots satisfies an exponential concentration of measure.

Based on joint work with Y. Do and O. Nguyen, and with O. Zeitouni (Received August 16, 2020)