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Elizabeth Meckes and **Mark Meckes*** (mark.meckes@case.edu). *Self-similarity in the spectra of random unitary matrices.*

I will present a rigorous result roughly stating that, for a range of mesoscopic scales, the eigenvalues of an $n \times n$ random unitary matrix are statistically indistinguishable from those of a $2n \times 2n$ matrix, suitably rescaled. This result is inspired by a conjecture made by Coram and Diaconis in a statistical study of the relationship between eigenvalues of large random unitary matrices and zeroes of the Riemann zeta function. (Received August 25, 2016)