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Mark W Meckes* (mwmeckes@math.cornell.edu), 310 Malott Hall, Department of Mathematics, Cornell University, Ithaca, NY. *The norms of random Toeplitz and Hankel matrices*. Preliminary report.

Bryc-Dembo-Jiang and Hammond-Miller independently recently showed that properly scaled random symmetric Toeplitz matrices possess a universal limiting spectral distribution; the first paper also shows this for random Hankel matrices. The limiting distributions have unbounded support, and Bryc-Dembo-Jiang raise the question of the asymptotic behavior of the spectral norms of such random matrices. We address this question using tools from the theory of Gaussian processes. (Received January 18, 2007)