1161-60-180 **Boris Hanin** and **Grigorios Paouris***, Texas A&M University, College Station, TX 77843.

Non-asymptotic results for singular values of Gaussian Matrix products.

This article concerns the non-asymptotic analysis of the singular values (and Lyapunov exponents) of Gaussian matrix products in the regime where N, the number of term in the product, is large and n, the size of the matrices, may be large or small and may depend on N. We obtain concentration estimates for sums of Lyapunov exponents, a quantitative rate of convergence of the empirical measure of singular values to the Triangle Law, and results on the joint normality of Lyapunov exponents when N is sufficiently large as a function of n. (Received August 16, 2020)