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Josiah Park* (j.park@gatech.edu), Georgia Institute of Technology, 686 Cherry St NW,
Atlanta, GA 30332. *On the minimum ℓ_p -norm of random matrices.* Preliminary report.

We prove small-ball estimates for the minimum value of $\|Ax\|_p$ for x on the sphere and a random matrix A , using only weak assumptions on the distribution of the entries. Using random-rounding, an efficient way to discretize the sphere, such results and other extensions of estimates for singular value may be derived. I will speak about these results, obtained in collaboration with G. Livshyts. (Received September 17, 2019)