1038-60-69 Wlodek Bryc\* (brycw@math.uc.edu), Department of Mathematical Sciences, University of Cincinnati, 2855 Campus Way, Cincinnati, OH 45221-0025. *q-Wishart matrices*.

We consider a class of  $N \times N$  matrices with noncommutative entries that depend on an auxiliary parameter  $q \in [-1, 1]$ . For q = 1, these are the classical Wishart matrices, while for q = 0 such matrices have the Marchenko-Pastur law. After centering by the mean, traces of polynomials in such matrices converge in distribution. The limit law is normal law when q = 1, a semicircle law when q = 0, and depends on the polynomial for general q. (Received January 27, 2008)