

1070-60-50

Wlodek Bryc* (brycw@math.uc.edu) and **Gerard Letac**. *Meixner matrix ensembles*.

In this talk I will discuss random matrices that are matricial analogs of the well known binomial, Poisson, and negative binomial random variables. The defining property is that the conditional variance of X given the sum $S = X + X'$ of two independent copies of X is a quadratic polynomial in S ; this property describes the family of six univariate laws on \mathbb{R} that will be described in the talk, and we are interested in their matrix analogs. (Received January 10, 2011)