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*Asymptotics of Hole Probability for  $SU(m+1)$  Gaussian Random Polynomials.*

We gave a way to compute the asymptotics of the hole probability that an  $SU(m+1)$  Gaussian random polynomial never vanishes on a polydisk of radius  $r \geq 1$ . This is analogous to A. Nishry's result on Gaussian entire functions. In the case of  $m = 1$ , we compute the hole probability for all  $r > 0$  and the probability that an  $SU(2)$  Gaussian random polynomial has no more than  $k$  zeros in a disk of radius  $r$ , for each  $k$  finite. (Received January 27, 2014)