
Zbl 133.26003

Erdős, Pál; Rényi, Alfréd

On random matrices (In English)

Publ. Math. Inst. Hung. Acad. Sci., Ser. A 8, 455-461 (1963).

Let $P(n, N(n))$ denote the probability that a random n by n matrix with $N(n)$ 1's and $n^2 - N(n)$ 0's has a positive permanent. The authors show that if $N(n) = n \log n + cn + o(n)$, where c is an arbitrary constant, then $\lim_{n\to\infty} P(n, N(n)) = \exp(-2e^{-c})$.

J.Moon

Classification:
15A52 Random matrices
15A15 Special matrix functions