

ERRATUM TO “HOW MANY ZEROS OF A RANDOM
POLYNOMIAL ARE REAL?”

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In Section 4.3 of the article “How many zeros of a random polynomial are real?” by Alan Edelman and Eric Kostlan (Bull. Amer. Math. Soc. (N.S.) **32** (1) (1995), 1–37), we meant to say that the eigenvector matrix, not the incidence matrix, is the tensor (or Kronecker) product of $\begin{pmatrix} 1 & \\ & -1 \end{pmatrix}$ n times. This tensor product is the simplest Hadamard matrix. The eigenvalues of the incidence matrix may then be seen to be $2k - n$ for $k = 0, \dots, n$.

We regret the statement in Section 2.5 that the constant C_1 in the asymptotic expansion of the Kac formula was unknown to previous researchers. Indeed the constant C_1 and further asymptotic terms were known to Wilkins [1], who also reports on previous work deriving C_1 by Jamrom and Wang going back to 1971 and 1983 respectively. We do believe, however, that our derivation is new.

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REFERENCES

- [1] J. E. Wilkins, *An asymptotic expansion for the expected number of real zeros of a random polynomial*, Proc. Amer. Math. Soc. **103** (1988), 1249–1258.