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Martin E. Muldoon* (muldoon@yorku.ca), Department of Mathematics and Statistics, York University, Toronto, Ontario. *Asymptotics of zeros of Hermite functions.*

We present an asymptotic formula for the zeros of the Hermite functions $H_\lambda(x)$, as $\lambda \rightarrow +\infty$. A proof can be based on an integral formula, due to Á. Elbert and the author, for the derivative of such a zero with respect to λ . Other possible proofs will be considered. We compare our result with those for zeros of Hermite functions given by P. E. Ricci. This is joint work with the late Árpád Elbert. (Received February 04, 2007)