Inequalities for the Smallest Zeros of Laguerre Polynomials and their q-analogues

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Abstract:

We present bounds and approximations for the smallest positive zero of the Laguerre polynomial $L_n^{(\alpha)}(x)$ which are sharp as $\alpha \to -1^+$. We indicate the applicability of the results to more general functions including the q-Laguerre polynomials.

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