

## On the zeros of $q$ -Laguerre polynomials

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$q$ -laguerre polynomials are an orthogonal polynomial system for  $\alpha > -1$ . In this paper the behavior of zeros in the neighborhood of  $x = 0$  is considered for  $\alpha \rightarrow -k$ , where  $k = 2$ . It is shown that limit of the sum of the reciprocals of the zeros as  $\alpha \rightarrow -k$  is finite.