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**Abstract**

It is shown that the Poisson distribution of order $k$ ($\geq 1$) with parameter $\lambda$ ($> 0$) has a unique mode $m_{k,\lambda} = 0$ if $0 < \lambda < 2/(k(k+1))$. In addition, $m_{2,\lambda} = 0$ if $0 < \lambda \leq -1+\sqrt{3}$ and $m_{2,\lambda} = 2$ if $-1+\sqrt{3} \leq \lambda < 1$.