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An Inequality About q -Series

Authors: [Mingjin Wang](#),
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Abstract: In this paper, we first generalize the traditional notation $(a; q)_n$ to $[g(x); q]_n$ and then obtain an inequality about q -series and some infinite products by means of the new conception. Because many q -series are not summable, our results are useful to study q -series and its application.



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