

Kordecki, Wojciech; Łyczkowska-Hanćkowiak, Anna
 q -analogs of order statistics. (English) [Zbl 1218.60040](#)
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Summary: We introduce the notion of the q -analog of the k -th order statistics. We give a distribution and asymptotic distributions of q -analogs of the k -th order statistics and the intermediate order statistics with $r \rightarrow \infty$ and $r - k \rightarrow \infty$ in the projective geometry $PG(r - 1, q)$.

MSC:

60G70 Extreme value theory; extremal stochastic processes
51E20 Combinatorial structures in finite projective spaces

Keywords:

order statistics; limit theorems; q -analog; finite projective geometry

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