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Ke Jin* (kejin@udel.edu). *The Length of the Longest Common Subsequences of Two Independent Mallows Permutations.* Preliminary report.

The Mallows measure is a probability measure on S_n where the probability of a permutation π is proportional to $q^{l(\pi)}$ with $q > 0$ being a parameter and $l(\pi)$ the number of inversions in π . We prove a weak law of large numbers for the length of the longest common subsequences of two independent random permutations drawn from the Mallows measure, when q is a function of n and $n(1 - q)$ has limit in \mathbb{R} as $n \rightarrow \infty$. (Received September 09, 2016)