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Probabilistic Analysis of the FIND Algorithm

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The FIND algorithm selects an element of given rank from an set of elements of an ordered set by a divide and conquer strategy similar to the Quicksort algorithm. The probabilistic analysis of complexity measures of different versions of this algorithm leads to various stochastic aspects such as distributional fixed point equations and invariance principles. In this talk a functional limit law in the space of cadlag functions with the Skorohod topology is discussed for an adapted version of FIND.