

1155-60-226

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*Free boundary Schur process- models and asymptotic behavior.*

The Schur process, introduced by Okounkov and Reshetikhin, is one of the fundamental models in integrable probability. It encompasses several combinatorial random models such as plane partitions, domino tilings, and last passage percolation. The Schur process is a class of measures on sequences of partitions where the first and last partitions are required to be empty. In this talk we consider the free boundary Schur process, which is a generalization of the original process where the end partitions are free. We present some of these models and some new asymptotic results. The limiting behavior is given by new deformations of universal distributions of Schur processes, such as Airy kernel or Tracy-Widom distribution. This is a joint work with D. Betea, J. Bouttier, and P. Nejjar. (Received January 14, 2020)