

Random Tilings, Random Partitions and Stochastic Growth Processes
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Some applications of random walk on partitions

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Abstract

We show how random walk on partitions can be combined with Stein's method to prove limit theorems for random character ratios of the symmetric group. Closely related ideas lead to limit theorems for characters of compact Lie groups and symmetric spaces. We also discuss the convergence rates of these random walks to their stationary distributions.