

On some random forests with determinantal roots

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Abstract:

We study a certain probability measure on the set of spanning rooted oriented forests of a given finite graph. We prove that the set of roots sampled from this measure is a determinantal process and we derive several further results relating this measure to the Markov process associated with the starting graph, to the spectrum of its generator and to hitting times of subsets of the graph.

Joint work with Alexandre Gaudillière.