

Burton, Robert; Pemantle, Robin

Local characteristics, entropy and limit theorems for spanning trees and domino tilings via transfer-impedances. (English) Zbl 0785.60007

Ann. Probab. 21, No. 3, 1329-1371 (1993).

This is a paper about uniform measures on spanning trees and perfect matchings (domino tilings) of infinite periodic d -dimensional lattices. A method for calculating the finite-dimensional marginals and the entropy of the limiting measure, which involves the Green's function, is presented. The results extend previous work of the second author [*Ann. Probab.* 19, No. 4, 1559-1574 (1991; [Zbl 0758.60010](#))].

Reviewer: [A.Rucinski \(Poznan\)](#)

MSC:

[60C05](#) Combinatorial probability

[60K35](#) Interacting random processes; statistical mechanics type models; percolation theory

Cited in **1** Review
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Keywords:

[infinite graphs](#); [spanning trees](#); [domino tilings](#); [uniform measures on spanning trees](#); [Green's function](#)

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