

Dimers in \mathbb{Z}^2

Richard Kenyon
Université de Paris-Sud

May 31, 1999

Abstract

Kasteleyn's theorem computes the number of perfect couplings of a planar graphs as a determinant. We extend this theorem to compute the densities of local configurations in a random coupling of a large area in \mathbb{Z}^2 .

Bibliography

- [1] Kenyon (Richard). – Dimères sur un réseau. – Preprint, 1998. Available at <http://topo.math.u-psud.fr/~kenyon/preprints.html>.