



ID de Contribution: 1

Type: Non spécifié

On the higher rank dimer and Ising models

lundi 24 juin 2024 14:30 (45 minutes)

Given a planar bipartite graph with a $GL(n, \mathbb{R})$ local system, we define an associated Kasteleyn operator and show that its determinant enumerates certain objects ("n-multiwebs") generalizing the dimer model. Likewise on a nonbipartite graph with an $Sp(2n)$ local system we show that the Pfaffian of an associated Kasteleyn-type matrix enumerates certain multiwebs generalizing Ising model configurations. This is based on joint work with D. Douglas, N. Ovenhouse, H. Shi, and H. Wu.

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