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On the higher rank dimer and Ising models

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Given a planar bipartite graph with a GL(n,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.

Orateur: KENYON, Richard (Yale University)