

Progress in Mathematics



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Alexander Lubotzky
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Tree Lattices



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Lisa Carbone



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based on Monte Carlo simulation of a suitable Markov chain and has rigorously derived performance guarantees that do not rely on any assumptions. In addition we show that these results generalize to counting matchings in any graph which is the Cayley graph of a finite group. The second problem is counting self avoiding walks in lattices. This problem arises in the study of the thermodynamics of long polymer chains in dilute solution. While there are a number of Monte Carlo algorithms used to count self avoiding walks in practice these are heuristic and their correctness relies on unproven conjectures. In contrast we present an efficient algorithm which relies on a single widely believed conjecture that is simpler than preceding assumptions and more importantly is one which the algorithm itself can test. Thus our algorithm is reliable in the sense that it either outputs answers that are guaranteed with high probability to be correct or finds a counterexample to the conjecture. In either case we know we can trust our results and the algorithm is guaranteed to run in polynomial time. This is the first algorithm for counting self avoiding walks in which the error bounds are rigorously controlled.

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