

Progress in Mathematics



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A. Lubotzky, G. Rosenberg, and J. Tits

# Tree Lattices



**Birkhäuser**

# Tree Lattices

**Hyman Bass, Alexander Lubotzky**



## **Tree Lattices:**

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with an arithmetic bridge Non uniform coverings of indexed graphs with a separating edge Non uniform coverings of indexed graphs with a ramified loop Eliminating multiple edges Existence of arithmetic bridges Bibliography Non-Uniform Lattices on Uniform Trees Lisa Carbone,2001 This title provides a comprehensive examination of non uniform lattices on uniform trees Topics include graphs of groups tree actions and edge indexed graphs Aut  $x$  and its discrete subgroups existence of tree lattices non uniform coverings of indexed graphs with an arithmetic bridge non uniform coverings of indexed graphs with a separating edge non uniform coverings of indexed graphs with a ramified loop eliminating multiple edges existence of arithmetic bridges This book is intended for graduate students and research mathematicians interested in group theory and generalizations Tree Lattices H. Bass,L. Carbone,A. Lunotzky,2000-11-01 **Uniform Tree Lattices** Hyman Bass,Ravi S. Kulkarni,1990 **Algebra,  $K$ -Theory, Groups, and Education** Hyman Bass,Tsit-Yuen Lam,Andy R. Magid,1999 This volume includes expositions of key developments over the past four decades in commutative and non commutative algebra algebraic K theory infinite group theory and applications of algebra to topology Many of the articles are based on lectures given at a conference at Columbia University honoring the 65th birthday of Hyman Bass Important topics related to Bass s mathematical interests are surveyed by leading experts in the field Of particular note is a professional autobiography of Professor Bass and an article by Deborah Ball on mathematical education The range of subjects covered in the book offers a convenient single source for topics in the field **Algebras and Combinatorics** K. P. Shum,Earl J. Taft,1999 This volume contains the refereed and edited versions of papers presented at the First International Congress in Algebra Combinatorics held in July 1997 in Hong Kong Research work in algebra and combinatorics which has never been published before is introduced along with expository papers in semigroups groups rings general algebras ordered algebras graphs and combinatorics The work is a useful reference book for researchers and graduate students working in these fields of mathematics **Bulletin (new Series) of the American Mathematical Society** ,2003 **Proceedings of the International Congress of Mathematicians: Invited lectures** ,1998 *Bulletin of the American Mathematical Society* ,2003 **Towers and Covolumes of Tree Lattices** Gabriel Rosenberg,2001 *Proceedings of the International Congress of Mathematicians: Invited lectures* Gerd Fischer,Ulf Rehmann,1998 Trees, Paths and Avalanches on Random Networks Radu Dobrin,2002 **Mathematical Reviews** ,2007 **House & Garden** ,1919 The Tree Lover ,1932 **Counting in Lattices** Dana Randall,1994 Abstract In this thesis we consider two classical combinatorial problems arising in statistical mechanics counting matchings and self avoiding walks in lattice graphs The first problem arises in the study of the thermodynamical properties of monomers and dimers diatomic molecules in crystals Fisher Kasteleyn and Temperley discovered an elegant technique to exactly count the number of perfect matchings in two dimensional lattices but it is not applicable for matchings of arbitrary size or in higher dimensional lattices We present the first efficient approximation algorithm for computing the number of matchings of any size in any periodic lattice in arbitrary dimension The algorithm is

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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