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The study of lattices, specifically from a computational point of view, was marked by two major breakthroughs: the development of the LLL lattice reduction algorithm by Lenstra, Lenstra and Lovasz in the early 80's, and Ajtai's discovery of a connection between the worst-case and average-case hardness of certain lattice problems in the late 90's.

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Complexity of Lattice Problems: A Cryptographic Perspective is an essential reference for those researching ways in which lattice problems can be used to build cryptographic systems. It will also be of interest to those working in computational complexity, combinatorics, and foundations of cryptography. The book presents a self-contained overview of the state of the art in the complexity of lattice problems, with particular emphasis on problems that are related to the construction of ...

Complexity of lattice problems: a cryptographic perspective
In other words, A is a discrete additive subgroup of m . - f6 COMPLEXITY OF LATTICE PROBLEMS Determinant 1.1 The determinant of a lattice A = £ (B), denoted det (A), is the n dimensional volume of the fundamental parallelepiped P (B) spanned by the basis vectors. (See shaded areas in Figures 1.1 and 1.2.)

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Abstract. We survey some recent developments in the study of the complexity of certain lattice problems. We focus on the recent progress on complexity results of intractability. We will discuss Ajtai ’ s worst-case/average-case connections for the shortest vector problem, similar results for the closest vector problem and short basis problem, NP-hardness and non-NP-hardness, transference theorems between primal and dual lattices, and application to secure cryptography.

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On the Complexity of Lattice Problems with Polynomial ...
In computer science, lattice problems are a class of optimization problems related to mathematical objects called lattices. The conjectured intractability of such problems is central to the construction of secure lattice-based cryptosystems: Lattice problems are an example of NP-hard problems which have been shown to be average-case hard, providing a test case for the security of cryptographic algorithms. In addition, some lattice problems which are worst-case hard can be used as a basis for ext

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In [4] it was shown that exactly solving the lattice basis reduction problem is equivalent in complexity to solving the closest vector problem, meaning that at least hyper-exponential complexity ...

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about lattices and complexity theory Complexity of lattice problems a cryptographic perspective-Complexity of Lattice Problems A Cryptographic Perspective is an essential reference for those researching ways in which lattice problems can be used to build cryptographic systems It will also be of interest to those working in computational complexity

Complexity Of Lattice Problems
However, before lattice cryptography goes live, we need major advances in understanding the hardness of lattice problems that underlie the security of these cryptosystems. Significant, groundbreaking progress on these questions requires a concerted effort by researchers from many areas: (algebraic) number theory, (quantum) algorithms, optimization, cryptography, and coding theory.

Lattices: Algorithms, Complexity, and Cryptography ...
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