

Figure 2. The hexagonal lattice packing in the plane.

we start with a brief review of the sphere packing and kissing number problems. Then we look at the remarkable kissing configurations in dimensions four, eight, and twenty-four. We give a sketch of Delbarte's method and how it was applied for the kissing number problem in dimensions eight and twenty-four. Then Mezin's ideas kick in, which leads us to look at some nonlinear optimization problems as they occur as subproblems in his approach. Finally, we sketch an elegant construction of the Leech lattice in dimension twenty-four, which starts from the graph of the icosahedron and uses only simple linear algebra. This is the lattice which Cohn and Kumar have now proved to be optimal

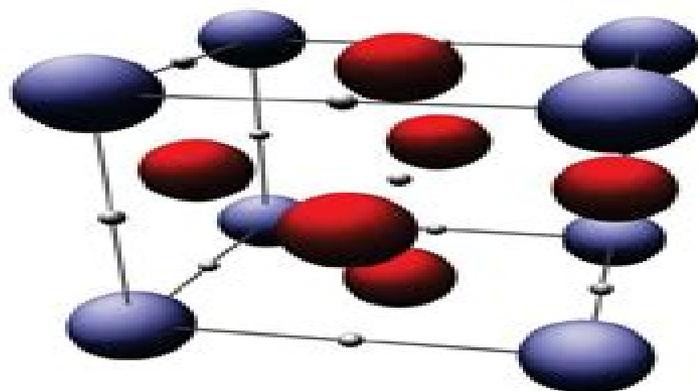
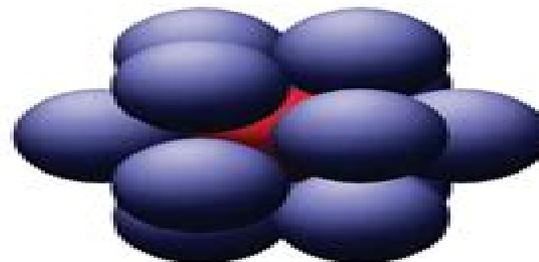


Figure 4. The fcc sphere packing.



Klaus Fink, 2010

Figure 3. The icosahedron configuration.

in dimension twenty-four by another extremely elegant and puzzling adaptation of Delbarte's method. A sketch for this will end our tour.

Three Classical Problems

The "kissing number problem" is a basic geometric problem that got its name from billiards: two balls "kiss" if they touch. The kissing number problem asks how many blue balls can touch one given red ball at the same time if all the balls have the same size. If you arrange the balls on a pool table, it is easy to see that the answer is exactly six: six balls just perfectly surround a given ball.

The **sphere packing problem** is to determine the maximal density of a packing of balls (all of them of the same size) in Euclidean n -space.

One class of packings to consider are *lattice packings*, which are invariant under any translation that takes one ball of the packing to the other.

It is a simple exercise (recommended) to prove, for dimension two, that the "obvious" hexagonal packing of equal-sized disks (two-dimensional balls) in the plane—a lattice packing in which each disk touches $\kappa(2) = 6$ others—is the optimal lattice packing and to compute its density.

It is not so easy to prove that the hexagonal packing is indeed an optimal sphere packing for dimension two. (Experts disagree whether the first proof for this, given by Thue 1892/1910, was indeed complete; if there was a gap, it was closed by Mähler and by Segre in 1940. See e.g. [14] for a proof.)

Thus the hexagonal planar lattice packing yields optimal solutions for the two-dimensional cases of the kissing number problem, the lattice packing problem, and the sphere packing problem. However, there are various indications that solutions of these three problems in higher dimensions are not so simple, they are not just given by "one perfect lattice packing", and things are much more complicated than in dimension two. This starts to show already in dimension three.

Sphere Packings

Yan Bai



Sphere Packings:

Sphere Packings Chuanming Zong, 1999-08-19 Sphere packings is one of the most fascinating and challenging subjects in mathematics. In the course of centuries many exciting results have been obtained, ingenious methods created, related challenging problems proposed, and many surprising connections with other subjects found. This book gives a full account of this fascinating subject, especially its local aspects, discrete aspects, and its proof methods. The book includes both classical and contemporary results and provides a full treatment of the subject. **Sphere Packings, Lattices and Groups** J.H. Conway, N.J.A. Sloane, 2013-03-09 The second edition of this timely definitive and popular book continues to pursue the question: what is the most efficient way to pack a large number of equal spheres in n -dimensional Euclidean space? The authors also continue to examine related problems such as the kissing number problem, the covering problem, the quantizing problem, and the classification of lattices and quadratic forms. Like the first edition, the second edition describes the applications of these questions to other areas of mathematics and science, such as number theory, coding theory, group theory, analog to digital conversion, and data compression; n -dimensional crystallography and dual theory; and superstring theory in physics. Results as of 1992 have been added to the text, and the extensive bibliography itself a contribution to the field is supplemented with approximately 450 new entries. [Sphere Packings, V.](#) Samuel L. P. Ferguson, 1997 **International Tables for Crystallography, Volume C** E. Prince, 2004-01-31 International Tables for Crystallography are no longer available for purchase from Springer. For further information, please contact Wiley Inc. follow the link on the right hand side of this page. The purpose of Volume C is to provide the mathematical, physical, and chemical information needed for experimental studies in structural crystallography. The volume covers all aspects of experimental techniques using all three principal radiation types: from the selection and mounting of crystals and production of radiation through data collection and analysis to interpretation of results. As such, it is an essential source of information for all workers using crystallographic techniques in physics, chemistry, metallurgy, earth sciences, and molecular biology. *Sphere Packings, Lattices and Groups* John H. Conway, Neil J.A. Sloane, 2013-02-14 The main themes: This book is mainly concerned with the problem of packing spheres in Euclidean space of dimensions 1, 2, 3, 4, 5. Given a large number of equal spheres, what is the most efficient or densest way to pack them together? We also study several closely related problems: the kissing number problem, which asks how many spheres can be arranged so that they all touch one central sphere of the same size; the covering problem, which asks for the least dense way to cover n -dimensional space with equal overlapping spheres; and the quantizing problem, important for applications to analog to digital conversion or data compression, which asks how to place points in space so that the average second moment of their Voronoi cells is as small as possible. Attacks on these problems usually arrange the spheres so their centers form a lattice. Lattices are described by quadratic forms, and we study the classification of quadratic forms. Most of the book is devoted to these five problems. The miraculous enters the E_8 and Leech lattices. When we

investigate those problems some fantastic things happen There are two sphere packings one in eight dimensions the E 8 lattice and one in twenty four dimensions the Leech lattice A which are unexpectedly good and very 24 symmetrical packings and have a number of remarkable and mysterious properties not all of which are completely understood even today From Error-correcting Codes Through Sphere Packings to Simple Groups Thomas Miller Thompson,1979 **Sphere Packings, Lattices and Groups** John Conway,Neil J. A. Sloane,1998-12-07 The third edition of this definitive and popular book continues to pursue the question what is the most efficient way to pack a large number of equal spheres in n dimensional Euclidean space The authors also examine such related issues as the kissing number problem the covering problem the quantizing problem and the classification of lattices and quadratic forms There is also a description of the applications of these questions to other areas of mathematics and science such as number theory coding theory group theory analogue to digital conversion and data compression n dimensional crystallography dual theory and superstring theory in physics New and of special interest is a report on some recent developments in the field and an updated and enlarged supplementary bibliography with over 800 items **International Tables for Crystallography, Volume C** A.J.C. Wilson,E. Prince,1999-06-30 International Tables for Crystallography are no longer available for purchase from Springer For further information please contact Wiley Inc The purpose of Volume C is to provide the mathematical physical and chemical information needed for experimental studies in structural crystallography This new edition features two completely new chapters on reflectometry and neutron topography More than half of the text has been revised and updated and there are extensive updates and corrections to tabular material Volume C covers all aspects of experimental techniques using all three principal radiation types from the selection and mounting of crystals and production of radiation through data collection and analysis to interpretation of results Audience The volume is an essential source of information for all workers using crystallographic techniques in physics chemistry metallurgy earth sciences and molecular biology Dense Random Packing of Hard Spheres as a Model for the Structure of Binary Amorphous Metals Andrew Stephen Clarke,1986 **Zeitschrift Für Kristallographie** ,2006 Sphere Packings, Lattices and Groups John Conway,Neil J. A. Sloane,2014-01-15 **Packing and Covering in Combinatorics** A. Schrijver,1979 Mathematical Centre tract 106 **Disorder and Granular Media** D. Bideau,A. Hansen,1993-05-05 Talks about the physics of the collective behavior of grains for example forming dense packings being in suspension in fluids This book presents a particular aspect of granularity starting from the geometry of irregular packings to computer modelling of flowing particles It emphasises the important role played by disorder **Mathematical Reviews** ,2005 **CJChE** ,1999-02 **Journal of Physics** ,2005 Reviews in Number Theory, as Printed in Mathematical Reviews, 1940 Through 1972, Volumes 1-44 Inclusive William Judson LeVeque,1974 **Physics of Granular Media** Daniel Bideau,John Dodds,1991 Sand flour smoke stone and ceramics are some of the many granular solids that show up in one form or another in nearly every industry and science Different

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