

# A Microscopic Model on the Kagome Lattice

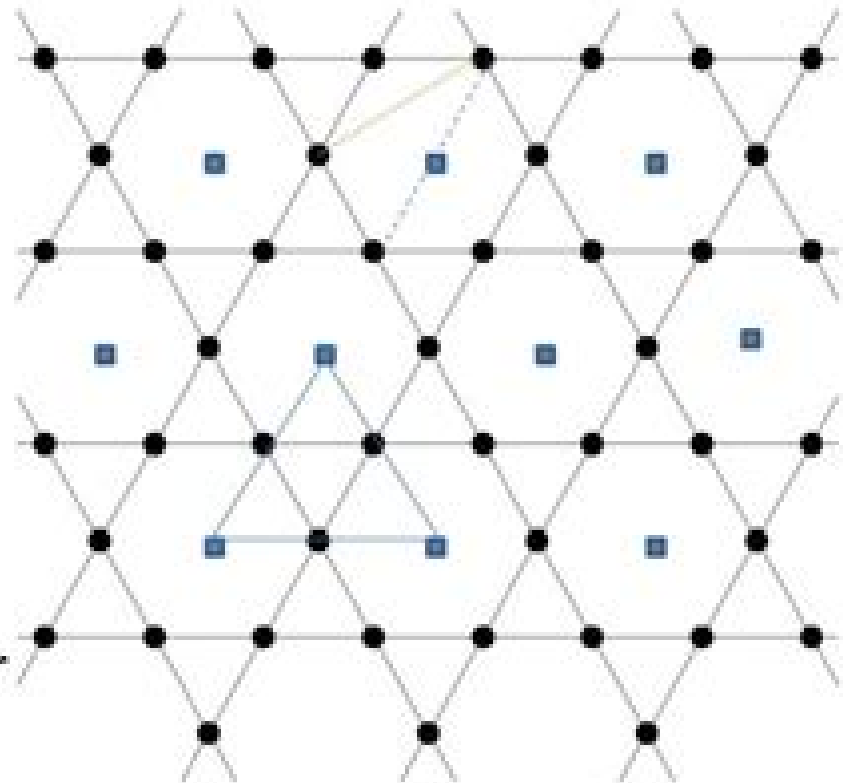
- Ising Limit:

Balents, Fisher and Girvin: arXiv:cond-mat/0110005

$$H_0 = \sum_{ij} J_{ij} S_i^z S_j^z$$

$$\mathcal{H}_0 = J_z \sum_{\square} (S_{\square}^z)^2$$

- Ground state 3 up and 3 down.
- Draw dimer through up spins
- Dimer model on triangular lattice with 3 dimers per site.



**Simpler model** – 1 dimer per site of triangular lattice (MoessnerSondhi). Realized here by applying magnetic field to reach 5 down 1 up state (2/3 magnetization plateau). Quantum dynamics comes from XY spin terms.

# Introduction To Lattice Theory

**George Grätzer**



## **Introduction To Lattice Theory:**

**Introduction to Lattices and Order** B. A. Davey, H. A. Priestley, 2002-04-18 This new edition of Introduction to Lattices and Order presents a radical reorganization and updating though its primary aim is unchanged The explosive development of theoretical computer science in recent years has in particular influenced the book's evolution a fresh treatment of fixpoints testifies to this and Galois connections now feature prominently An early presentation of concept analysis gives both a concrete foundation for the subsequent theory of complete lattices and a glimpse of a methodology for data analysis that is of commercial value in social science Classroom experience has led to numerous pedagogical improvements and many new exercises have been added As before exposure to elementary abstract algebra and the notation of set theory are the only prerequisites making the book suitable for advanced undergraduates and beginning graduate students It will also be a valuable resource for anyone who meets ordered structures

**Introduction to Lattice Theory** Daniel Edwin Rutherford, 1965 This volume grew out of a course of lectures given in the University of St Andrews and in the University of Notre Dame Indiana The study of lattice theory requires practically no previous mathematical knowledge which makes the subject a very suitable one to introduce undergraduates to abstract algebra The aim of the present work is to provide an introduction to the simpler parts of the subject and to give an indication of its numerous applications

**An Introduction to Lattice Theory** Barton P. Ferris (Jr), 1961

**Lattice Theory: Foundation** George Grätzer, 2011-02-14 This book started with Lattice Theory First Concepts in 1971 Then came General Lattice Theory First Edition in 1978 and the Second Edition twenty years later Since the publication of the first edition in 1978 General Lattice Theory has become the authoritative introduction to lattice theory for graduate students and the standard reference for researchers The First Edition set out to introduce and survey lattice theory Some 12 000 papers have been published in the field since then so Lattice Theory Foundation focuses on introducing the field laying the foundation for special topics and applications Lattice Theory Foundation based on the previous three books covers the fundamental concepts and results The main topics are distributivity congruences constructions modularity and semimodularity varieties and free products The chapter on constructions is new all the other chapters are revised and expanded versions from the earlier volumes Almost 40 diamond sections many written by leading specialists in these fields provide a brief glimpse into special topics beyond the basics Lattice theory has come a long way For those who appreciate lattice theory or who are curious about its techniques and intriguing internal problems Professor Grätzer's lucid new book provides a most valuable guide to many recent developments Even a cursory reading should provide those few who may still believe that lattice theory is superficial or naive with convincing evidence of its technical depth and sophistication Bulletin of the American Mathematical Society Grätzer's book General Lattice Theory has become the lattice theorist's bible Mathematical Reviews

[An Introduction to Lattice Theory](#) Leonard Guy Jones, 1947

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Computer Science Applications Vijay K. Garg, 2015-06-10 A computational perspective on partial order and lattice theory focusing on algorithms and their applications This book provides a uniform treatment of the theory and applications of lattice theory The applications covered include tracking dependency in distributed systems combinatorics detecting global predicates in distributed systems set families and integer partitions The book presents algorithmic proofs of theorems whenever possible These proofs are written in the calculational style advocated by Dijkstra with arguments explicitly spelled out step by step The author's intent is for readers to learn not only the proofs but the heuristics that guide said proofs

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**Introduction to Lattice Theory** National Health Council, 1965      **Introduction to Lattice Theory** Gabor Szasz, 1963      *An Introduction to Lattice Theory and Its Applications* Denis Ragan Floyd, 1960      **Introduction to Lattice Algebra** Gerhard X. Ritter, Gonzalo Urcid, 2021-08-23 Lattice theory extends into virtually every branch of mathematics ranging from measure theory and convex geometry to probability theory and topology A more recent development has been the rapid escalation of employing lattice theory for various applications outside the domain of pure mathematics These applications range from electronic communication theory and gate array devices that implement Boolean logic to artificial intelligence and computer science in general

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**Introduction to Lattice Theory** Gábor Szász, 1964      *Lattice Theory* Thomas Donnellan, 2014-05-16 Lattice Theory presents an elementary account of a significant branch of contemporary mathematics concerning lattice theory This book discusses the unusual features which include the presentation and exploitation of partitions of a finite set Organized into six chapters this book begins with an overview of the concept of several topics including sets in general the relations and operations the relation of equivalence and the relation of congruence This text then defines the relation of partial order and then partially ordered sets including chains Other

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*Introduction to Lattice Theory* by Gabor Szasz Gabor Szasz,1963      *General Lattice Theory* George Grätzer,2002-11-21 Grätzer's General Lattice Theory has become the lattice theorist's bible Now we have the second edition in which the old testament is augmented by a new testament The new testament gospel is provided by leading and acknowledged experts in their fields This is an excellent and engaging second edition that will long remain a standard reference MATHEMATICAL REVIEWS      *Lattice Theory* Garrett Birkhoff,1940-12-31 Since its original publication in 1940 this book has been revised and modernized several times most notably in 1948 second edition and in 1967 third edition The material is organized into four main parts general notions and concepts of lattice theory Chapters I V universal algebra Chapters VI VII applications of lattice theory to various areas of mathematics Chapters VIII XII and mathematical structures that can be developed using lattices Chapters XIII XVII At the end of the book there is a list of 166 unsolved problems in lattice theory many of which still remain open It is excellent reading and the best place to start when one wishes to explore some portion of lattice theory or to appreciate the general flavor of the field Bulletin of the AMS      Concept Lattices and Their Applications Engelbert Mephu Nguifo,2008-03-28 As the refereed proceedings of the Fourth International Conference on Concept Lattices and their Applications CLA 2006 these 18 revised full papers together with 3 invited contributions presented were carefully reviewed and selected from 41 submissions      *Lattice Theory* George Grätzer,2009-01-01 This outstanding text is written in clear language and enhanced with many exercises diagrams and proofs It discusses historical developments and future directions and provides an extensive bibliography and references 1971 edition      **Computational Intelligence Based on Lattice Theory** Vassilis G. Kambhampati, Gerhard X. Ritter,2007-06-26 This eighteen chapter book presents the latest applications of lattice theory in Computational Intelligence CI The book focuses on neural computation mathematical morphology machine learning and fuzzy inference logic The book comes out of a special session held during the World Council for Curriculum and Instruction World Conference WCCI 2006 The articles presented here demonstrate how lattice theory may suggest viable alternatives in practical clustering classification pattern analysis and regression applications      *Lattices and Ordered Sets* Steven Roman,2008-12-15 This book is intended to be a thorough introduction to the subject of order and lattices with an emphasis on the latter It can be used for a course at the graduate or advanced undergraduate level or for independent study Prerequisites are kept to a minimum but an introductory course in abstract algebra is highly recommended since many of the examples are drawn from this area This is a book on pure mathematics I do not discuss the applications of lattice theory to physics computer science or other disciplines Lattice theory began in the early 1890s when Richard Dedekind wanted to

know the answer to the following question Given three subgroups  $E$ ,  $F$  and  $G$  of an abelian group  $K$  what is the largest number of distinct subgroups that can be formed using these subgroups and the operations of intersection and sum join as in  $E \cap F$ ,  $E + F$ ,  $G \cap E$ ,  $F \cap G$  and so on In lattice theoretic terms this is the number of elements in the relatively free modular lattice on three generators Dedekind answered this question the answer is 15 and wrote two papers on the subject of lattice theory but then the subject lay relatively dormant until Garrett Birkhoff Oystein Ore and others picked it up in the 1930s Since then many noted mathematicians have contributed to the subject including Garrett Birkhoff Richard Dedekind Israel Gelfand George Grtzer Aleksandr Kurosh Anatoly Malcev Oystein Ore Gian Carlo Rota Alfred Tarski and Johnny von Neumann

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