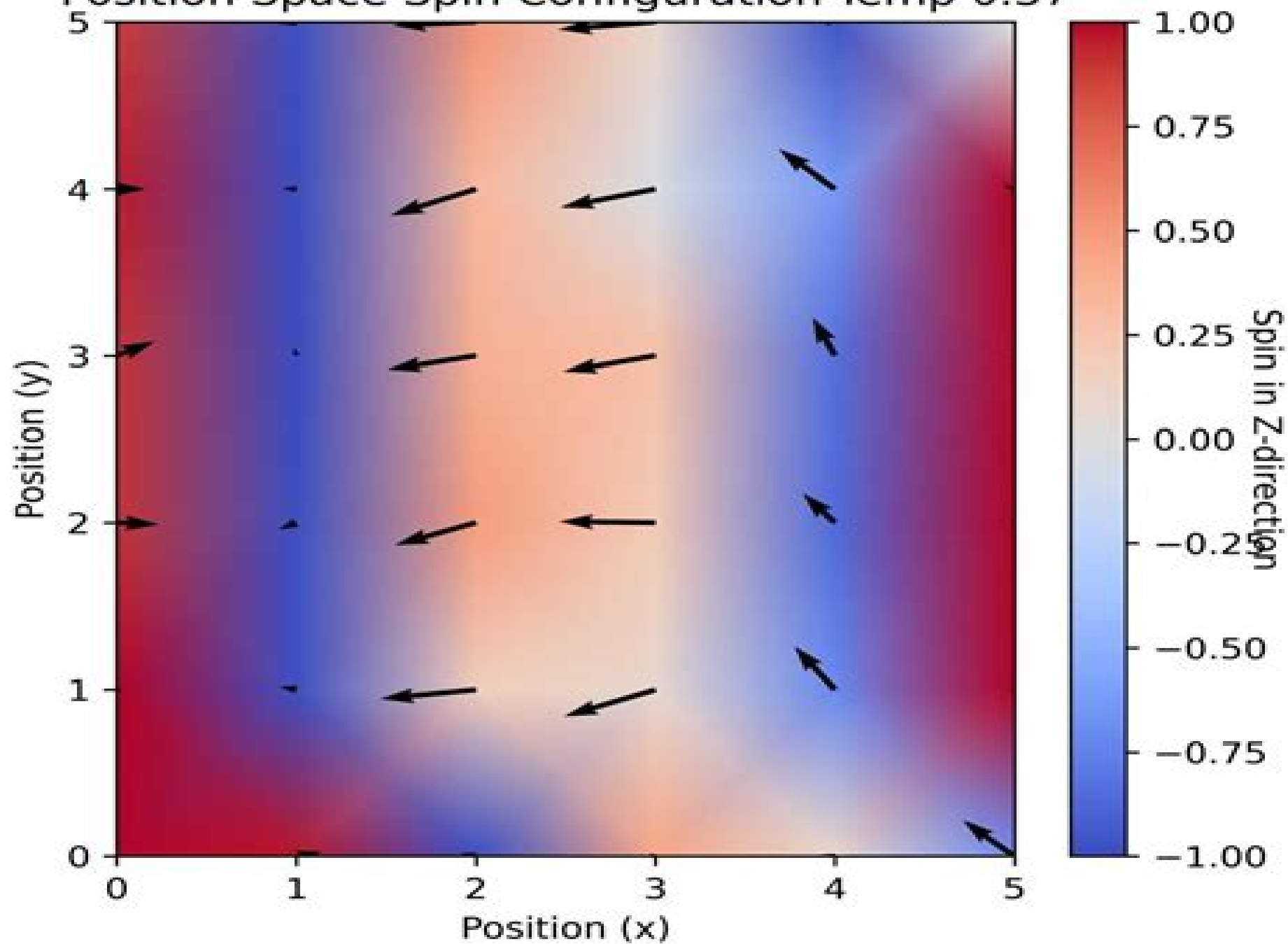


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# Spin Systems

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## Spin Systems:

Spin Systems W J Caspers, 1989-05-01 This book is about spin systems as models for magnetic materials especially antiferromagnetic lattices Spin systems are well defined models for which in special cases exact properties may be derived These special cases are for the greater part one dimensional and restricted in their applicability but they may give insight into general properties that also exist in higher dimension This work pays special attention to qualitative differences between spin lattices of different dimensions It also replaces the traditional picture of an ordered antiferromagnetic state of a Heisenberg system by one which makes use of the space of quantum spin states

**Frustrated Spin Systems** Hung-the Diep, 2005-01-19 Frustrated spin systems have been first investigated five decades ago Well known examples include the Ising model on the antiferromagnetic triangular lattice studied by G H Wannier in 1950 and the Heisenberg helical structure discovered independently by A Yoshimori J Villain and T A Kaplan in 1959 However many properties of frustrated systems are still not well understood at present Recent studies reveal that established theories numerical simulations as well as experimental techniques have encountered many difficulties in dealing with frustrated systems This volume highlights the latest theoretical numerical and experimental developments in the field The book is intended for post graduate students as well as researchers in statistical physics magnetism materials science and various domains where real systems can be described with the spin language Explicit demonstrations of formulae and full arguments leading to important results are given

*An Introduction to Quantum Spin Systems* John B. Parkinson, Damian J. J. Farnell, 2010-08-26 The topic of lattice quantum spin systems is a fascinating and by now well established branch of theoretical physics Based on a set of lectures this book has a level of detail missing from others and guides the reader through the fundamentals of the field

**Frustrated Spin Systems** H. T. Diep, 2013 This book covers all principal aspects of currently investigated frustrated systems from exactly solved frustrated models to real experimental frustrated systems going through renormalization group treatment Monte Carlo investigation of frustrated classical Ising and vector spin models low dimensional systems spin ice and quantum spin glass The reader can OCo within a single book OCo obtain a global view of the current research development in the field of frustrated systems This new edition is updated with recent theoretical numerical and experimental developments in the field of frustrated spin systems The first edition of the book appeared in 2005 In this edition more recent works until 2012 are reviewed It contains nine chapters written by researchers who have actively contributed to the field Many results are from recent works of the authors The book is intended for postgraduate students as well as researchers in statistical physics magnetism materials science and various domains where real systems can be described with the spin language Explicit demonstrations of formulas and full arguments leading to important results are given where it is possible to do so

Quantum Spin Systems on Infinite Lattices Pieter Naaijken, 2017-03-20 This course based primer offers readers a concise introduction to the description of quantum mechanical systems with infinitely many

degrees of freedom and quantum spin systems in particular using the operator algebraic approach Here the observables are modeled using elements of some operator algebra usually a  $C^*$  algebra This text introduces readers to the framework and the necessary mathematical tools without assuming much mathematical background making it more accessible than advanced monographs The book also highlights the usefulness of the so called thermodynamic limit of quantum spin systems which is the limit of infinite system size For example this makes it possible to clearly distinguish between local and global properties without having to keep track of the system size Together with Lieb Robinson bounds which play a similar role in quantum spin systems to that of the speed of light in relativistic theories this approach allows ideas from relativistic field theories to be implemented in a quantum spin system Several related cases are discussed demonstrating the merits of the operator algebraic approach Featuring representative worked out examples and many exercises this text is primarily targeted at graduate students and advanced undergraduates in theoretical physics or mathematics with a keen interest in mathematical physics The material provides the necessary background and pointers to start exploring the recent literature As such it will also be useful for active researchers seeking a quick and comparatively self contained introduction to the operator algebraic approach to quantum spin systems

Frustrated Spin Systems (Third Edition) Hung-the Diep, 2020-06-19 Frustrated spin systems have been first investigated five decades ago Well known examples include the Ising model on the antiferromagnetic triangular lattice studied by G H Wannier in 1950 and the Heisenberg helical structure discovered independently by A Yoshimori J Villain and T A Kaplan in 1959 However extensive investigations on frustrated spin systems have really started with the concept of frustration introduced at the same time by G Toulouse and by J Villain in 1977 in the context of spin glasses The frustration is generated by the competition of different kinds of interaction and or by the lattice geometry As a result in the ground state all bonds are not fully satisfied In frustrated Ising spin systems a number of spins behave as free spins In frustrated vector spin systems the ground state configuration is usually non collinear The ground state of frustrated spin systems is therefore highly degenerate and new induced symmetries give rise to unexpected behaviors at finite temperatures Many properties of frustrated systems are still not well understood at present Theoretically recent studies shown in this book reveal that established theories numerical simulations as well as experimental techniques have encountered many difficulties in dealing with frustrated systems In some sense frustrated systems provide an excellent testing ground for approximations and theories Experimentally more and more frustrated materials are discovered with interesting properties for applications

**Crossover-Time in Quantum Boson and Spin Systems** Gennady P. Berman, Evgeny N. Bulgakov, Darryl D. Holm, 2008-10-04 The authors compare classical and quantum dynamics in the quasiclassical region of parameters and under the condition of unstable chaotic classical behavior They estimate the characteristic time scale at which classical and quantum solutions start to differ significantly The method is based on exact equations for time dependent expectation values in boson and spin coherent states and applies to rather general

Hamiltonians with many degrees of freedom The authors develop a consistent dynamical theory for quantum nonintegrable Hamiltonians and provide explicit examples of classical quantum crossover time a very common and fundamental phenomenon in quantum nonintegrable systems This book can be recommended to graduate students and to specialists

*Magnetoelectric Response in Low-Dimensional Frustrated Spin Systems* Shinichiro Seki, 2012-08-27 Electric control of magnetic properties or inversely magnetic control of dielectric properties in solids is called a magnetoelectric effect and has long been investigated from the point of view of both fundamental physics and potential application Magnetic and dielectric properties usually show minimal coupling but it recently has been discovered that magnetically induced ferroelectricity in some spiral magnets enables remarkably large and versatile magnetoelectric responses To stabilize such helimagnetism magnetic frustration competition between different magnetic interactions is considered the key In the present work two of the most typical frustrated spin systems triangular lattice antiferromagnets and edge shared chain magnets have systematically been investigated Despite the crystallographic simplicity of target systems rich magnetoelectric responses are ubiquitously observed The current results published here offer a useful guideline in the search for new materials with unique magnetoelectric functions and also provide an important basis for a deeper understanding of magnetoelectric phenomena in more complex systems

*Magnetic Susceptibility of Superconductors and Other Spin Systems* T.L. Francavilla, R.A. Hein, D.H. Liebenberg, 2013-11-11 The workshop entitled Magnetic Susceptibility of Superconductors and other Spin Systems S4 was held at Coolfont Resort and Health Spa located near Berkley Springs West Virginia on May 20 23 1991 There were over sixty attendees approximately half from the United States the remainder representing over twelve different countries The international character of the workshop may be gleaned from the attendee list included in this volume The intent of the workshop was to bring together those experimentalists and theoreticians whose efforts have resulted in significant recent contributions to the development and use of the ac susceptibility technique as well as to the interpretation of data obtained from these measurements Many spirited discussions occurred during and after the presentations These are reflected in the manuscripts contained in these proceedings Although camera ready manuscripts were required from all participants at registration all manuscripts were revised and reflect the lively exchanges that followed each presentation The small size of the workshop allowed the participants a high degree of flexibility Consequently when a controversial topic such as the irreversibility line emerged a special session was organized on the spot At the suggestion of Ron Goldfarb participants were invited to contribute a one page summary containing their thoughts on the topic These stand alone contributions were retyped and included as submitted with only minor editorial changes These proceedings are intended for those experienced scientists new to the field and graduate students just beginning their research

Tensor Network States and Effective Particles for Low-Dimensional Quantum Spin Systems Laurens Vanderstraeten, 2017-08-10 This thesis develops new techniques for simulating the low energy behaviour of quantum spin systems in one and two dimensions Combining these

developments it subsequently uses the formalism of tensor network states to derive an effective particle description for one and two dimensional spin systems that exhibit strong quantum correlations These techniques arise from the combination of two themes in many particle physics i the concept of quasiparticles as the effective low energy degrees of freedom in a condensed matter system and ii entanglement as the characteristic feature for describing quantum phases of matter Whereas the former gave rise to the use of effective field theories for understanding many particle systems the latter led to the development of tensor network states as a description of the entanglement distribution in quantum low energy states

**NMR in Structural Biology** Kurt Wüthrich,1995 The volume presents a survey of the research by Kurt Wüthrich and his associates during the period 1965 to 1994 A selection of reprints of original papers on the use of NMR spectroscopy in structural biology is supplemented with an introduction which outlines the foundations and the historical development of the use of NMR spectroscopy for the determination of three dimensional structures of biological macromolecules in solution The original papers are presented in groups highlighting protein structure determination by NMR studies of dynamic properties and hydration of biological macromolecules and practical applications of the NMR methodology in fields such as enzymology transcriptional regulation immunosuppression and protein folding Protein NMR Spectroscopy John Cavanagh,Nicholas J. Skelton,Wayne J. Fairbrother,Mark Rance,Arthur G. Palmer III,2010-07-21 Protein NMR Spectroscopy Second Edition combines a comprehensive theoretical treatment of NMR spectroscopy with an extensive exposition of the experimental techniques applicable to proteins and other biological macromolecules in solution Beginning with simple theoretical models and experimental techniques the book develops the complete repertoire of theoretical principles and experimental techniques necessary for understanding and implementing the most sophisticated NMR experiments Important new techniques and applications of NMR spectroscopy have emerged since the first edition of this extremely successful book was published in 1996 This updated version includes new sections describing measurement and use of residual dipolar coupling constants for structure determination TROSY and deuterium labeling for application to large macromolecules and experimental techniques for characterizing conformational dynamics In addition the treatments of instrumentation and signal acquisition field gradients multidimensional spectroscopy and structure calculation are updated and enhanced The book is written as a graduate level textbook and will be of interest to biochemists chemists biophysicists and structural biologists who utilize NMR spectroscopy or wish to understand the latest developments in this field Provides an understanding of the theoretical principles important for biological NMR spectroscopy Demonstrates how to implement optimize and troubleshoot modern multi dimensional NMR experiments Allows for the capability of designing effective experimental protocols for investigations of protein structures and dynamics Includes a comprehensive set of example NMR spectra of ubiquitin provides a reference for validation of experimental methods **NMR Spectroscopy Techniques, Second Edition**, Martha Bruch,1996-03-05 This work elucidates the power of modern nuclear magnetic resonance NMR techniques to solve a wide

range of practical problems that arise in both academic and industrial settings This edition provides current information regarding the implementation and interpretation of NMR experiments and contains material on three and four dimensional NMR the NMR analysis of peptides proteins carbohydrates and oligonucleotides and more *Elementary Lectures in Statistical Mechanics* George D.J. Phillies, 2000 This textbook for graduates and advanced undergraduates in physics and physical chemistry covers the major areas of statistical mechanics and concludes with the level of current research It begins with the fundamental ideas of averages and ensembles focusing on classical systems described by continuous variables such as position and momentum and using the ideal gas as an example It then turns to quantum systems beginning with diatomic molecules and working up through blackbody radiation and chemical equilibria The discussion of equilibrium properties of systems of interacting particles includes such techniques as cluster expansions and distribution functions and uses non ideal gases liquids and solutions Dynamic behavior treated here more extensively than in other texts is discussed from the point of view of correlation functions The text concludes with the problem of diffusion in a suspension of interacting hard spheres and what can be learned about such a system from scattered light Intended for a one semester course the text includes several asides on topics usually omitted from introductory courses as well as numerous exercises **NMR Spectroscopy** Christian Schorn, Brian F. Taylor, 2004 This volume enables the newcomer to become familiar with the basic data acquisition procedures modular pulse sequence units and complete sequences in NMR spectroscopy **Fundamentals of Protein NMR Spectroscopy** Gordon S. Rule, T. Kevin Hitchens, 2006-02-16 NMR spectroscopy has proven to be a powerful technique to study the structure and dynamics of biological macromolecules Fundamentals of Protein NMR Spectroscopy is a comprehensive textbook that guides the reader from a basic understanding of the phenomenological properties of magnetic resonance to the application and interpretation of modern multi dimensional NMR experiments on <sup>15</sup>N <sup>13</sup>C labeled proteins Beginning with elementary quantum mechanics a set of practical rules is presented and used to describe many commonly employed multi dimensional multi nuclear NMR pulse sequences A modular analysis of NMR pulse sequence building blocks also provides a basis for understanding and developing novel pulse programs This text not only covers topics from chemical shift assignment to protein structure refinement as well as the analysis of protein dynamics and chemical kinetics but also provides a practical guide to many aspects of modern spectrometer hardware sample preparation experimental set up and data processing End of chapter exercises are included to emphasize important concepts Fundamentals of Protein NMR Spectroscopy not only offer students a systematic in depth understanding of modern NMR spectroscopy and its application to biomolecular systems but will also be a useful reference for the experienced investigator Symmetries, Integrable Systems and Representations Kenji Iohara, Sophie Morier-Genoud, Bertrand Rémy, 2012-12-06 This volume is the result of two international workshops Infinite Analysis 11 Frontier of Integrability held at University of Tokyo Japan in July 25th to 29th 2011 and Symmetries Integrable Systems and Representations held at Universit Claude Bernard Lyon 1 France in December

13th to 16th 2011 Included are research articles based on the talks presented at the workshops latest results obtained thereafter and some review articles The subjects discussed range across diverse areas such as algebraic geometry combinatorics differential equations integrable systems representation theory solvable lattice models and special functions Through these topics the reader will find some recent developments in the field of mathematical physics and their interactions with several other domains

**NMR in Biological Systems** K.V.R. Chary, Girjesh Govil, 2008-04-08 During teaching NMR to students and researchers we felt the need for a text book which can cover modern trends in the application of NMR to biological systems This book covers the entire area of NMR in Biological Sciences Biomolecules cells and tissues animals plants and drug design As well as being useful to researchers this is an excellent book for teaching a course on NMR in Biological Systems

*Computational Systems Bioinformatics* Peter Markstein, Ying Xu, Life Sciences Society, 2006 This volume contains about 40 papers covering many of the latest developments in the fast growing field of bioinformatics The contributions span a wide range of topics including computational genomics and genetics protein function and computational proteomics the transcriptome structural bioinformatics microarray data analysis motif identification biological pathways and systems and biomedical applications There are also abstracts from the keynote addresses and invited talks The papers cover not only theoretical aspects of bioinformatics but also delve into the application of new methods with input from computation engineering and biology disciplines This multidisciplinary approach to bioinformatics gives these proceedings a unique viewpoint of the field

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