

# **Magnetism and Structure in Systems of Reduced Dimension**

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**NATO ASI Series**

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**Series B: Physics Vol. 309**

# Magnetism And Structure In Systems Of Reduced Dimension

**Mohamed Henini**



## **Magnetism And Structure In Systems Of Reduced Dimension:**

Magnetism and Structure in Systems of Reduced Dimension Robin F.C. Farrow, Bernard Dieny, Markus Donath, Albert Fert, B.D. Hermsmeier, 2013-06-29 This volume contains the papers presented at the NATO Advanced Research Workshop on Magnetism and Structure in Systems of Reduced Dimension held at l Institut d Etudes Scientifiques de Cargese U M S C N R S Universite de Corte Universite de Nice Sophia Antipolis during June 15 19 1992 The ordering of papers in the volume reflects the sequence of papers presented at the workshop The aim was not to segregate the papers into rigidly defined areas but to group the papers into small clusters each cluster having a common theme In this way the parallel rather than serial development of areas such as preparation of films magnetic and structural characterization was highlighted Indeed the success of the field depends on such parallel development and is assisted by workshops of this nature and the international collaborations which they foster The organizers and participants of the NATO workshop express their thanks to Mme Marie France Hanseier and the staff at l Institut d Etudes Scientifiques de Cargese U M S C N R S Universite de Corte Universite de Nice Sophia Antipolis for making the workshop and local arrangements a memorable success Warm thanks are also expressed to Varadachari Sadagopan and Pascal Stefanou for their encouragement and help in making the workshop a reality We are also grateful to Kristl Hathaway Larry Cooper and Gary Prinz for advice in developing the workshop program

**Magnetism and Structure in Systems of Reduced Dimension** Robin F. C. Farrow, Bernard Dieny, Markus Donath, 2014-01-15 **Frontiers in Magnetism of Reduced Dimension Systems** Victor G. Bar'yakhtar, P.E. Wigen, 2012-12-06 Frontiers in Magnetism of Reduced Dimension Systems presents a definitive statement of our current knowledge and the state of the art in a field that has yet to achieve maturity even though there are a number of potential applications of thin magnetic films and multilayers such as magnetic sensors data storage retrieval media actuators etc The book is organized into 13 chapters each including a lecture and contributed papers on a similar subject Five chapters deal with theoretical descriptions of electron transport phenomena relaxation processes nonlinear paramagnetic interactions phase transitions and macroscopic quantum effects in magnetic films and particles The description of different characterization techniques occupies an important place in the book Separate chapters are dedicated to magnetic resonances FMR SWR NMR magneto optical spectroscopy controlling chaos magnetoelastic phenomena and magnetic resonance force microscopy A further chapter gives a detailed review spread over a number of papers of materials in current use in information storage devices *Magnetic Properties of Metals: Magnetic and Electric Properties of Magnetic Metallic Multilayers* Yoshiyuki Kawazoe, Ryunosuke Note, 2023-06-06 The subject of this volume is to present both the numerical and graphical data on the magnetic and electrical properties of magnetic metallic multilayers which are composed with stacking up of double layers of thin films one layer of which is at least the magnetic layer of 3d metals M or rare earth ones R Furthermore the data of the trilayers which have a top layer and bottom one of magnetic elements are also presented

**Low-Dimensional Magnetism** A.N. Vasiliev, O.S. Volkova, E.A. Zvereva, M.M. Markina, 2019-07-16 Low dimensional magnetism physics involves the search for new magnetic compounds and improving their characteristics to meet the needs of innovative technologies A comprehensive overview of key materials their formulation data and characteristics are detailed by the author Key selling features Explores dominant mechanisms of magnetic interaction to determine the parameters of exchange interactions in new magnetic materials Describes how magnetism and superconductivity not only compete but also help each other Details characteristics of key materials in the magnetic subsystem Results of several internationally renowned research groups are included and cited Suitable for a wide range of readers in physics materials science and chemistry interested in the problems of the structure of matter

**Low-Dimensional Systems: Theory, Preparation, and Some Applications** Luis M. Liz-Marzán, Michael Giersig, 2012-12-06 This volume contains papers presented at the NATO Advanced Research Workshop ARW Dynamic Interactions in Quantum Dot Systems held at Hotel Atrium in Puszczkowo near Poznan Poland May 16 19 2002 The term low dimensional systems which is used in the title of this volume refers to those systems which contain at least one dimension that is intermediate between those characteristic of atoms molecules and those of the bulk material Depending on how many dimensions lay within this range we generally speak of quantum wells quantum wires and quantum dots As such an intermediate state some properties of low dimensional systems are very different to those of their molecular and bulk counterparts These properties generally include optical electronic and magnetic properties and all these are partially covered in this book The main goal of the workshop was to discuss the actual state of the art in the broad area of nanotechnology The initial focus was on the innovative synthesis of nanomaterials and their properties such as quantum size effects superparamagnetism or field emission These topics lead us into the various field based interactions including plasmon magnetic spin and exciton coupling The newer more sophisticated methods for characterization of nanomaterials were discussed as well as the methods for possible industrial applications In general chemists and physicists as well as experts on both theory and experiments on nanosized regime structures were brought together to discuss the general phenomena underlying their fields of interest from different points of view

*Optical Phenomena in Semiconductor Structures of Reduced Dimensions* D.J. Lockwood, Aron Pinczuk, 2012-12-06 Remarkable advances in semiconductor growth and processing technologies continue to have a profound impact on condensed matter physics and to stimulate the invention of novel optoelectronic effects Intensive research on the behaviors of free carriers has been carried out in the two dimensional systems of semiconductor heterostructures and in the one and zero dimensional systems of nanostructures created by the state of the art fabrication methods These studies have uncovered unexpected quantum mechanical correlations that arise because of the combined effects of strong electron electron interactions and wave function confinement associated with reduced dimensionality The investigations of these phenomena are currently at the frontiers of condensed matter physics They include areas like the fractional quantum Hall effect the dynamics of electrons on an ultra

short femtosecond time scale electron behavior in quantum wires and dots and studies of electron tunneling phenomena in ultra small semiconductor structures Optical techniques have made important contributions to these fields in recent years but there has been no coherent review of this work until now The book provides an overview of these recent developments that will be of interest to semiconductor materials scientists in university government and industrial laboratories

*Fundamentals of Low Dimensional Magnets* Ram K. Gupta, Sanjay R. Mishra, Tuan Anh Nguyen, 2022-08-29 A low dimensional magnet is a key to the next generation of electronic devices In some respects low dimensional magnets refer to nanomagnets nanostructured magnets or single molecule magnets molecular nanomagnets They also include the group of magnetic nanoparticles which have been widely used in biomedicine technology industries and environmental remediation Low dimensional magnetic materials can be used effectively in the future in powerful computers hard drives magnetic random access memory ultra low power consumption switches etc The properties of these materials largely depend on the doping level phase defects and morphology This book covers various nanomagnets and magnetic materials The basic concepts various synthetic approaches characterizations and mathematical understanding of nanomaterials are provided Some fundamental applications of 1D 2D and 3D materials are covered This book provides the fundamentals of low dimensional magnets along with synthesis theories structure property relations and applications of ferromagnetic nanomaterials This book broadens our fundamental understanding of ferromagnetism and mechanisms for realization and advancement in devices with improved energy efficiency and high storage capacity

*Low-Dimensional Magnetism* A N Vasiliev, Taylor & Francis Group, O S Volkova, E a Zvereva, M M Markina, 2021-12-13 Low dimensional magnetism physics involves the search for new magnetic compounds and improving their characteristics to meet the needs of innovative technologies A comprehensive overview of key materials their formulation data and characteristics are detailed by the author Key selling features Explores dominant mechanisms of magnetic interaction to determine the parameters of exchange interactions in new magnetic materials Describes how magnetism and superconductivity not only compete but also help each other Details characteristics of key materials in the magnetic subsystem Results of several internationally renowned research groups are included and cited Suitable for a wide range of readers in physics materials science and chemistry interested in the problems of the structure of matter

**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 Physics of Low Dimensional Systems J.L. Morán-López, 2007-05-08 Oaxaca Mexico was the place chosen by a large international group of scientists to meet and discuss on the recent advances on the understanding of the physical properties of low dimensional systems one of the most active fields of research in condensed matter in the last years The International Symposium on the Physics of Low Dimensions took place in January 16-20 2000 The group of scientists converging into the historical city of Oaxaca in the state of the same name had come from Argentina Chile Venezuela several places in Mexico Canada U S A England France Italy Germany Russia and Switzerland The presentations at the workshop provided state of art reviews of many of the most important problems currently under study Equally important to all the participants in the workshop was the fact that we had come to honor a friend Hans Christoph Siegmann on his sixty fifth birthday This Festschrift recognizes the intellectual leadership of Professor Siegmann in the field and as a sincere homage to his qualities as an exceptional friend colleague and mentor Those who have had the privilege to work closely with Hans Christoph have been deeply impressed by his remarkable analytic mind as well as by his out of range kindness and generosity Hans Christoph has contributed to the understanding of the difficult and very important problem of the magnetic properties of finite systems surfaces thin films heterostructures

**Emerging Applications of Low Dimensional Magnets** Ram K. Gupta, Sanjay R. Mishra, Tuan Anh Nguyen, 2022-11-28 Low dimensional magnetic materials find their wide applications in many areas including spintronics memory devices catalysis biomedical sensors electromagnetic shielding aerospace and energy This book provides a comprehensive discussion on magnetic nanomaterials for emerging applications Fundamentals along with applications of low dimensional magnetic materials in spintronics catalysis memory biomedical toxic waste removal aerospace telecommunications batteries supercapacitors flexible electronics and many more are covered in detail to provide a full spectrum of their advanced applications This book offers fresh aspects of nanomagnetic materials and innovative directions to scientists researchers and students It will be of particular interest to materials scientists engineers physicists chemists and researchers in electronic and spintronic industries and is suitable as a textbook for undergraduate and graduate studies **Frontiers of High**

**Pressure Research II: Application of High Pressure to Low-Dimensional Novel Electronic Materials** Hans D. Hochheimer, Bogdan Kuchta, Peter K. Dorhout, Jeffery L. Yarger, 2012-12-06 In recent interactions with industrial companies it became quite obvious that the search for new materials with strong anisotropic properties are of paramount importance for the development of new advanced electronic and magnetic devices The questions concerning the tailoring of materials with large anisotropic electrical and thermal conductivity were asked over and over again It became also quite clear that the

chance to answer these questions and to find new materials which have these desired properties would demand close collaborations between scientists from different fields. Modern techniques of controlled materials synthesis and advances in measurement and modeling have made clear that multiscale complexity is intrinsic to complex electronic materials both organic and inorganic. A unified approach to classes of these materials is urgently needed requiring interdisciplinary input from chemistry, materials science and solid state physics. Only in this way can they be controlled and exploited for increasingly stringent demands of technology. The spatial and temporal complexity is driven by strong often competing couplings between spin, charge and lattice degrees of freedom which determine structure function relationships. The nature of these couplings is a sensitive function of electron-electron, electron-lattice and spin-lattice interactions, noise and disorder, external fields, magnetic, optical, pressure etc. and dimensionality. In particular, these physical influences control broken symmetry ground states, charge and spin ordered ferroelectric, superconducting, metal-insulator transitions and excitations with respect to broken symmetries created by chemical or photo-doping, especially in the form of polaronic or excitonic self-trapping.

**Recent Trends in Theory of Physical Phenomena in High Magnetic Fields** Israel D. Vagner, Peter Wyder, Tsofar Maniv, 2012-12-06. A comprehensive collection of papers on theoretical aspects of electronic processes in simple and synthetic metals, superconductors, bulk and low dimensional semiconductors under extreme conditions such as high magnetic and electric fields, low and ultra low temperatures. The main emphasis is on low dimensional conductors and superconductors where correlated electrons interacting with magnetic or nonmagnetic impurities, phonons, photons or nuclear spins result in a variety of new physical phenomena such as quantum oscillations in the superconducting state, Condon instability, Skyrmions and composite fermions in quantum Hall effect systems and hyperfine field induced mesoscopic and nanoscopic phenomena. Several new experimental achievements are reported that promise to delineate future trends in low temperature and high magnetic field physics including the experimental observation of the interplay between superconductivity and nuclear spin ordering at ultra low temperatures, new observations of Condon domains in normal metals and an experimental proposal for the realisation of isotopically engineered semiconductor based spin qubit elements for future quantum computation and communication technology.

*Spin Dynamics in Confined Magnetic Structures I* Burkard Hillebrands, Kamel Ounadjela, 2003-07-01. Introductory chapters help newcomers to understand the basic concepts and the more advanced chapters give the current state of the art for most spin dynamic issues in the milliseconds to femtoseconds range. Emphasis is placed on both the discussion of the experimental techniques and on the theoretical work. The comprehensive presentation of these developments makes this volume very timely and valuable for every researcher working in the field of magnetism.

**Metals Abstracts**, 1996. [Spin Electronics](#) Michael Ziese, Martin J. Thornton, 2007-06-30. For 50 years conventional electronics has ignored the electron spin. The manipulation and utilisation of the electron spin heralds an exciting and rapidly changing era in electronics combining the disciplines of magnetism and traditional electronics. The

first generation of spintronic devices such as read heads based on giant magnetoresistance or non volatile magnetic random access memories have already gained dominant positions in the market place This volume the first of its kind on spin electronics describes all the essential topics for new researchers entering the field It covers magnetism and semiconductor basics micromagnetism experimental techniques materials science device fabrication and new developments in spin dependent processes At the end of most chapters are a number of exercises and worked problems to aid the reader in understanding this fascinating new field

### **Interplay of Spins, Charges and Photons in Low-dimensional Systems**

Can-Ming Hu,2005      Devices Based on Low-Dimensional Semiconductor Structures M. Balkanski,2012-12-06 Low dimensional semiconductor quantum structures are a major high technological development that has a considerable industrial potential The field is developing extremely rapidly and the present book represents a timely guide to the latest developments in device technology fundamental properties and some remarkable applications The content is largely tutorial and the book could be used as a textbook The book deals with the physics fabrication characteristics and performance of devices based on low dimensional semiconductor structures It opens with fabrication procedures The fundamentals of quantum structures and electro optical devices are dealt with extensively Nonlinear optical devices are discussed from the point of view of physics and applications of exciton saturation in MQW structures Waveguide based devices are also described in terms of linear and nonlinear coupling The basics of pseudomorphic HEMT technology device physics and materials layer design are presented Each aspect is reviewed from the elementary basics up to the latest developments Audience Undergraduates in electrical engineering graduates in physics and engineering schools Useful for active scientists and engineers wishing to update their knowledge and understanding of recent developments      Molecular Beam Epitaxy

Mohamed Henini,2012-12-31 This multi contributor handbook discusses Molecular Beam Epitaxy MBE an epitaxial deposition technique which involves laying down layers of materials with atomic thicknesses on to substrates It summarizes MBE research and application in epitaxial growth with close discussion and a how to on processing molecular or atomic beams that occur on a surface of a heated crystalline substrate in a vacuum MBE has expanded in importance over the past thirty years in terms of unique authors papers and conferences from a pure research domain into commercial applications prototype device structures and more at the advanced research stage MBE is important because it enables new device phenomena and facilitates the production of multiple layered structures with extremely fine dimensional and compositional control The techniques can be deployed wherever precise thin film devices with enhanced and unique properties for computing optics or photonics are required This book covers the advances made by MBE both in research and mass production of electronic and optoelectronic devices It includes new semiconductor materials new device structures which are commercially available and many more which are at the advanced research stage Condenses fundamental science of MBE into a modern reference speeding up literature review Discusses new materials novel applications and new device structures

grounding current commercial applications with modern understanding in industry and research Coverage of MBE as mass production epitaxial technology enhances processing efficiency and throughput for semiconductor industry and nanostructured semiconductor materials research community

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