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Quantum Tunneling of Magnetization – QTM '94

Edited by

Leon Gunther and Bernard Barbara

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Quantum Tunneling Of Magnetization Qtm 94

Ulrich Weiss



Quantum Tunneling Of Magnetization Qtm 94:

Quantum Tunneling of Magnetization — QTM '94 Leon Gunther, B. Barbara, 2012-12-06 The first NATO Advanced Workshop on Quantum Tunneling of Magnetization QTM was organized and co directed by Bernard Barbara Leon Gunther Nicolas Garcia and Anthony Leggett and was held from June 27 through July 1 1994 in Grenoble and Chichilianne France These Proceedings include twenty nine articles that represent the contributions of the participants in the Workshop Quantum Tunneling of Magnetization is not only interesting for purely academic reasons It was pointed out in the review article by L Gunther in the December 1990 issue of Physics World that QTM may be destined to play a significant role within the next two decades in limiting the density of information storage in magnetic systems Recent advances have indicated that this limitation may well be reached even earlier than first predicted Furthermore the number of people who have entered the field of study of QTM during these past few years has increased many fold The time was therefore opportune to hold a Workshop to bring together for the first time the leading researchers of QTM both theoretical and experimental so as to discuss the current status of the field The most controversial issue at the time of the Workshop was how to establish reliable criteria for determining whether experimental results do indeed reveal manifestations of QTM We believe that much progress was made at the Workshop on this issue

Nanoscale Science and Technology N. García, M. Nieto-vesperinas, H. Rohrer, 2012-12-06 Nanoscale Science and Technology summarizes six years of active research sponsored by NATO with the participation of the leading experts The book provides an interdisciplinary view of several aspects of physics at the atomic scale It contains an overview of the latest findings on the transport of electrons in nanowires and nanoconstrictions the role of forces in probe microscopy the control of structures and properties in the nanometer range aspects of magnetization in nanometric structures and local probes for nondestructive measurement as provided by light and metal clusters near atomic scales

Quantum Phenomena in Clusters and Nanostructures Shiv N. Khanna, Albert W Castleman, 2013-03-09 Clusters and nanoscale materials give rise to properties and behaviour that are governed by size restrictions and hence display features directly attributable to quantum confinement Thus they represent ideal media for observing and studying quantum phenomena This book presents and evaluates some of the latest developments in this area of basic research Each of the chapters focuses on selected aspects of the field and the authors endeavour to display the breadth of the subject by presenting some of the important recent advances that have been made through the use of new experimental techniques and theoretical approaches

Molecular Magnets Juan Bartolomé, Fernando Luis, Julio F. Fernández, 2013-10-17 This book provides an overview of the physical phenomena discovered in magnetic molecular materials over the last 20 years It is written by leading scientists having made the most important contributions to this active area of research The main topics of this book are the principles of quantum tunneling and quantum coherence of single molecule magnets SMMs phenomena which go beyond the physics of individual molecules such as the collective behavior of arrays of SMMs the physics of one

dimensional single chain magnets and magnetism of SMMs grafted on substrates The potential applications of these physical phenomena to classical and quantum information communication technologies and the emerging fields of molecular spintronics and magnetic refrigeration are stressed The book is written for graduate students researchers and non experts in this field of research *Exploring the Quantum/classical Frontier* Jonathan R. Friedman, Siyuan Han, 2003 Exploring the

Quantum Classical Frontier Recent Advances in Macroscopic Quantum Phenomena **Quantum Entanglement and Information Processing**, 2004-11-05 It has been recognised recently that the strange features of the quantum world could be used for new information transmission or processing functions such as quantum cryptography or more ambitiously quantum computing These fascinating perspectives renewed the interest in fundamental quantum properties and lead to important theoretical advances such as quantum algorithms and quantum error correction codes On the experimental side remarkable advances have been achieved in quantum optics solid state physics or nuclear magnetic resonance This book presents the lecture notes of the Les Houches Summer School on Quantum entanglement and information processing Following the long tradition of the les Houches schools it provides a comprehensive and pedagogical approach of the whole field written by renowned specialists One major goal of this book is to establish connections between the communities of quantum optics and of quantum electronic devices working in the area of quantum computing When two communities share the same goals the universality of physics unavoidably leads to similar developments However the communication barrier is often high and few physicists are able to overcome it This school has contributed to bridge the existing gap between communities for the benefit of the future actors in the field of quantum computing The book thus combines introductory chapters providing the reader with a sufficiently wide theoretical framework in quantum information quantum optics and quantum circuits physics with more specialized presentations of recent theoretical and experimental advances in the field This structure makes the book accessible to any graduate student having a good knowledge of basic quantum mechanics and extremely useful to researchers Covers quantum optics solid state physics and NMR implementations Pedagogical approach combining introductory lectures and advanced chapters Written by leading experts in the field Accessible to all graduate students with a basic knowledge of quantum mechanics *Molecular Nanomagnets* Dante Gatteschi, Roberta

Sessoli, Jacques Villain, 2011-04-14 Nanomagnetism is a rapidly expanding area of research which appears to be able to provide novel applications Magnetic molecules are at the very bottom of the possible size of nanomagnets and they provide a unique opportunity to observe the coexistence of classical and quantum properties The discovery in the early 90 s that a cluster comprising twelve manganese ions shows hysteresis of molecular origin and later proved evidence of quantum effects opened a new research area which is still flourishing through the collaboration of chemists and physicists This book is the first attempt to cover in detail the new area of molecular nanomagnetism for which no other book is available In fact research and review articles and book chapters are the only tools available for newcomers and the experts in the field It is

written by the chemists originators and by a theorist who has been one of the protagonists of the development of the field and is explicitly addressed to an audience of chemists and physicists aiming to use a language suitable for the two communities

Oxford Handbook of Nanoscience and Technology A.V. Narlikar,Y.Y. Fu,2010-02-11 These three volumes are intended to shape the field of nanoscience and technology and will serve as an essential point of reference for cutting edge research in the field

Advanced Magnetic Nanostructures D.J. Sellmyer,Ralph Skomski,2006-07-02 Advanced magnetic nanostructures is an emerging field in magnetism and nanotechnology but the literature consists of a rich variety of original papers and parts of reviews and books whose scope is comparatively broad This calls for a book with specific emphasis on state of the art synthetic methods for fabricating characterizing and theoretically modeling new magnetic nanostructures This book is intended to provide a comprehensive overview of the present state of the field Leading researchers world wide have contributed a survey of their special ties to guide the reader through the exploding literature in nanomagnetic structures The focus is on deliberately structured nanomagnets It includes cluster assembled self organized and patterned thin films but excludes for example multilayered thin films We target both industrial and academic researchers in magnetism and related areas such as nanotechnology materials science and theoretical solid state physics

Magnetism Joel S. Miller,Marc Drillon,2006-03-06 Magnetic phenomena and materials are everywhere Our understanding of magnetic behavior once thought to be mature has enjoyed new impetus from contributions ranging from molecular chemistry materials chemistry and sciences to solid state physics New phenomena are explored that open promising perspectives for commercial applications in future carrying out chemical reactions in magnetic fields is just one of those The spectrum spans molecule based organic bio inorganic and hybrid compounds metallic materials as well as their oxides forming thin films nanoparticles wires etc Reflecting contemporary knowledge this open series of volumes provides a much needed comprehensive overview of this growing interdisciplinary field Topical reviews written by foremost scientists explain the trends and latest advances in a clear and detailed way By maintaining the balance between theory and experiment the book provides a guide for both advanced students and specialists to this research area It will help evaluate their own experimental observations and serve as a basis for the design of new magnetic materials A unique reference work indispensable for everyone concerned with the phenomena of magnetism

Proceedings of the 7th International Symposium on Foundations of Quantum Mechanics in the Light of New Technology Yoshimasa A. Ono,2002 This book discusses fundamental problems in quantum physics with emphasis on quantum coherence and decoherence Papers covering the wide range of quantum physics are included atom optics quantum optics quantum computing quantum information cryptography macroscopic quantum phenomena mesoscopic physics physics of precise measurements and fundamental problems in quantum physics The book will serve not only as a good introduction to quantum coherence and decoherence for newcomers in this field but also as a reference for experts

Quantum Dissipative Systems Ulrich Weiss,2008 Major advances in the quantum theory of macroscopic systems in

combination with experimental achievements have brightened the field and brought it to the attention of the general community in natural sciences This edition delves deeper into the fundamental concepts methods and applications of quantum dissipative systems **Quantum Dissipative Systems (Second Edition)** Ulrich Weiss,1999-10-27 Recent advances in the quantum theory of macroscopic systems have brightened up the field and brought it into the focus of a general community in natural sciences The fundamental concepts methods and applications including the most recent developments previously covered for the most part only in the original literature are presented here in a comprehensive treatment to an audience who is reasonably familiar with quantum statistical mechanics and has had rudimentary contacts with the path integral formulation This book deals with the phenomena and theory of decoherence and dissipation in quantum mechanics that arise from the interaction with the environment A general path integral description of equilibrium thermodynamics and non equilibrium dynamics is developed The approach can deal with weak and strong dissipation and with all kinds of memory effects Applications to numerous phenomenological and microscopic systems are presented where emphasis is put on condensed matter and chemical physics The basic principles and methods of preparation functions propagating functions and time correlation functions are described Special attention is focused on quantum tunneling and quantum coherence phenomena of macroscopic variables Many illustrative realistic examples are discussed in some detail The book attempts to provide a broad perspective and to open up this rapidly developing field to interested researchers normally working in different fields In this enlarged second edition the nineteen chapters of the first edition have been expanded by about one third to better meet both the requests of newcomers to the field and of advanced readers and seven new chapters have been added that review the most recent important developments Quantum computing with molecular magnets Repollés Rabinad, Ana María,2016-07-12 En esta tesis se han estudiado los imanes moleculares SMM o Single Molecule Magnets en ingl s como potenciales candidatos para formar parte del procesador de un ordenador cu ntico En concreto mol culas compuestas por uno dos o tres iones que act an como qubits Por otro lado se ha desarrollado una nueva generaci n de microsuscept metros SQUID de 30 m de di metro que ha permitido estudiar el comportamiento de muestras de tama o nanom trico como un primer paso para verificar el comportamiento de estos SMM aislados de su medio cristalino

Magnetism and Synchrotron Radiation Eric Beaurepaire,Hervé Bulou,Fabrice Scheurer,Kappler Jean-Paul,2010-03-12 Advances in the synthesis of new materials with often complex nano scaled structures require increasingly sophisticated experimental techniques that can probe the electronic states the atomic magnetic moments and the magnetic microstructures responsible for the properties of these materials At the same time progress in synchrotron radiation techniques has ensured that these light sources remain a key tool of investigation e g synchrotron radiation sources of the third generation are able to support magnetic imaging on a sub micrometer scale With the Fifth Mittelwihl School on Magnetism and Synchrotron Radiation the tradition of teaching the state of the art on modern research developments

continues and is expressed through the present set of extensive lectures provided in this volume While primarily aimed at postgraduate students and newcomers to the field this volume will also benefit researchers and lecturers actively working in the field

Macroscopic Quantum Coherence and Quantum Computing Dmitri V. Averin, Berardo Ruggiero, Paolo Silvestrini, 2012-12-06 This volume is an outgrowth of the Second International Workshop on Macroscopic Quantum Coherence and Computing held in Napoli Italy in June 2000 This workshop gathered a number of experts from the major Universities and Research Institutions of several countries The choice of the location which recognizes the role and the traditions of Naples in this field guaranteed the participants a stimulating atmosphere The aim of the workshop has been to report on the recent theoretical and experimental results on the macroscopic quantum coherence of macroscopic systems Particular attention was devoted to Josephson devices The correlation with other atomic and molecular systems exhibiting a macroscopic quantum behaviour was also discussed The seminars provided both historical overview and recent theoretical ground on the topic as well as information on new experimental results relative to the quantum computing area The first workshop on this topic held in Napoli in 1998 has been ennobled by important reports on observations of Macroscopic Quantum Coherence in mesoscopic systems The current workshop proposed among many stimulating results the first observations of Macroscopic Quantum Coherence between macroscopically distinct fluxoid states in rf SQUIDs 20 years after the Leggett's proposal to experimentally test the quantum behavior of macroscopic systems Reports on observations of quantum behaviour in molecular and magnetic systems small Josephson devices quantum dots have also been particularly stimulating in view of the realization of several possible q bits

Tunneling In Complex Systems Steve Tomsovic, 1998-06-19 Quantum tunneling is an intriguing phenomenon arising in a multitude of physical contexts New experiments in systems as wide ranging as superdeformed nuclei Bose Einstein condensed gases and nanomagnetic systems are spurring theoretical studies into the fundamental nature of tunneling In this volume the articles include i tunneling out of a metastable state ii coherence between two wells in tunneling contact iii the consequences of the nature of the underlying dynamics i e regular motion chaos or some mixture in low dimensional systems and its connection to newly identified tunneling phenomena such as chaos assisted tunneling iv nanomagnetic systems with focus on comparing environmental descriptions of nuclear spins and oscillators v solitons in Bose condensates vi tunneling out of the nuclear superdeformed well and its use as a probe of pairing and chaos in excited nuclear states and vii problems linked to the Bose condensed phase of atomic alkali gases These subjects and others are gathered in six pedagogical courses given during the spring of 1997 at the National Institute of Nuclear Physics program Tunneling in complex systems The purpose of the courses was to give graduate students and postdoctoral researchers exposure to a sampling of such recent theoretical advances and experimental contexts of tunneling as well as a bridge for the communication gaps between researchers in the various fields concerned with tunneling

Introduction To Quantum Mechanics: Schrodinger Equation And Path Integral (Second Edition) Harald J W

Muller-kirsten,2012-07-19 This text on quantum mechanics begins by covering all the main topics of an introduction to the subject It then concentrates on newer developments In particular it continues with the perturbative solution of the Schrödinger equation for various potentials and thereafter with the introduction and evaluation of their path integral counterparts Considerations of the large order behavior of the perturbation expansions show that in most applications these are asymptotic expansions The parallel consideration of path integrals requires the evaluation of these around periodic classical configurations the fluctuation equations about which lead back to specific wave equations The period of the classical configurations is related to temperature and permits transitions to the thermal domain to be classified as phase transitions In this second edition of the text important applications and numerous examples have been added In particular the chapter on the Coulomb potential has been extended to include an introduction to chemical bonds the chapter on periodic potentials has been supplemented by a section on the band theory of metals and semiconductors and in the chapter on large order behavior a section has been added illustrating the success of converging factors in the evaluation of asymptotic expansions Detailed calculations permit the reader to follow every step *Quantum Optics of Confined Systems* M. Ducloy,Daniel

Bloch,2012-12-06 In the last few years it was seen the emergence of various new quantum phenomena specifically related with electronic or optical confinement on a sub wavelength size Fast developments simultaneously occurred in the field of Atomic Physics notably through various regimes of Cavity Quantum Electrodynamics and in Solid State Physics with advances in Quantum Well technology and Nanooptoelectronics Simultaneously breakthroughs in Near Field Optics provided new tools which should be widely applicable to these domains However the key concepts used to describe these new and partly related effects are often very different and specific of the Community involved in a given development It has been the ambition of the Meeting held at Centre de Physique des Houches to give an opportunity to specialists of different Communities to deepen their understanding of advances more or less intimately related to their own field while presenting the basic concepts of these different fields through pedagogical Introductions The audience comprised advanced students postdocs and senior scientists with a balanced participation of Atomic Physicists and Solid State Physicists and had a truly international character The considerable efforts of the lecturers in order to present exciting new results in a language accessible to the whole audience were the essential ingredients to achieve successfully what was the main goal of this School

Hyper-Structured Molecules III Hiroyuki Sasabe,2010-12-12 Hyper Structured Molecules are topologically well defined molecules in two or three dimensions expected to show novel quantum effects in the molecular sequences This book covers molecular designs of dendrimers oligomers hyperbranched polymers and or high spin systems molecular organizations and nanostructures mesoscopic pattern formation and

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when we know one point on the line x_1, y_1 and the slope of the line m and want to find other points on the line have a play with it move the point try different slopes now let's discover more

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examples example 1 find an equation of the line with a slope of 3 that passes through the point $(2, 4)$ the slope of 3 tells us to replace the m with 3 the point $(2, 4)$ tells us that $x_1 = 2$ and $y_1 = 4$

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the point slope form is very useful when you don't have your y intercept it is used to write equations when you only have your slope and a point point slope form $y - y_1 = m(x - x_1)$ for example your slope m is 3 and your point a, b is $(9, 10)$ you would substitute your y coordinate for a and your x coordinate for b

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point slope form in point slope form which is written like this $y - y_1 = m(x - x_1)$ y_1 is the y value of the known point on the line m is the slope and x_1 is the x value of the

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point slope is a specific form of linear equations in two variables $y - b = m(x - a)$ when an equation is written in this form m gives the slope of the line and a, b is a point the line passes through this form is derived from the slope formula want to learn more about point slope form check out this video