

Alois Würger

From Coherent Tunneling to Relaxation

Dissipative Quantum Dynamics
of Interacting Defects

With 51 Figures



Springer

From Coherent Tunneling To Relaxation

Alois Würger



From Coherent Tunneling To Relaxation:

From Coherent Tunneling to Relaxation Alois Würger, 2007-09-28 From Coherent Tunneling to Relaxation is an impressive review of ten years of progress in our understanding of interacting tunneling systems The dielectric and elastic response of 111 off center impurities in alkali halides is investigated in detail and the coherent motion of an impurity pair is discussed in view of recently observed rotary echoes The low temperature properties of defect crystals with an impurity concentration higher than 100 ppm are reviewed and the dipolar interaction is shown to drive the cross over to relaxational dynamics This comprehensive presentation of the theory is illustrated by experimental data for lithium cyanide and hydroxyl impurities in various host crystals This monograph is an ideal reference book for scientists working with defect crystals and glasses From Coherent Tunneling to Relaxation Alois Würger, 2014-01-15 *Ultrashort Processes in Condensed Matter* Walter E. Bron, 2012-12-06 The Advanced Study Institute ASI considered a number of facets of the very rapidly advancing field of theoretical and experimental aspects of ultrashort processes in condensed matter Common threads exist between a series of example cases One major subgroup of topics involves the ultrashort dynamics of excitations of various particles produced through the interactions of condensed matter with ultrashort duration laser light Examples of the excitations include electronic and hole carriers electron hole plasma phonons vibrons and rotons two phonon states and excitons Experimentation on the dynamics of such excitations are carried out in the bulk at surfaces in thin films and in quantum wells The dynamical steps which the excitations usually undergo include photo excitation local thermalization particle particle interaction particle phonon interactions and eventual return to true thermal equilibrium This ASI was organized to benefit particularly advanced graduate students specifically those near the end of their Ph D thesis projects and also for postdoctoral scholars already active in the field The overall organizational goal was centered around a set of tutorially based lectures intermingled with full scale discussion periods of equal time and importance as the lectures The general discussion periods were designed to offer to the participants ample time to ask detailed questions and to make comments and contributions of their own In order to complete the involvement of the participants a full length poster session was also held A representative set of abstracts of these posters appear as an Appendix to the lectures **Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures** Jagdeep Shah, 2013-11-11 Resonant Tunneling in Semiconductors L.L. Chang, E.E. Mendez, C. Tejedor, 2012-12-06 This book contains the proceedings of the NATO Advanced Research Workshop on Resonant Tunneling in Semiconductors Physics and Applications held at Escorial Spain on May 14 18 1990 The tremendous growth in the past two decades in the field of resonant tunneling in semiconductor heterostructures has followed if not outpaced the expansion witnessed in quantum structures in general Resonant tunneling shares also the multi disciplinary nature of that broad area with an emphasis on the underlying physics but with a coverage of material systems on the one end and device applications on the other Indeed that resonant tunneling provides great flexibility in terms of materials and configurations

and that it is inherently a fast process with obvious device implications by the presence of a negative differential resistance have contributed to the unrelenting interest in this field These proceedings consist of 49 refereed articles they correspond to both invited and contributed talks at the workshop Because of the intertwining nature of the subject matter it has been difficult to subdivide them in well defined sections Instead they are arranged in several broad categories meant to serve only as guidelines of emphasis on different topics and aspects The book starts with an introduction to resonant tunneling by providing a perspective of the field in the first article This is followed by discussions of different material systems with various band structure effects

Compton Scattering Frank Wissmann, 2003-12-03 A comprehensive summary of experiments on Compton scattering from the proton and neutron performed at the electron accelerator MAMI The experiments cover a photon energy range from 30 MeV to 500 MeV The reader is introduced to the theoretical concepts of Compton scattering followed by a description of the experiments on the proton their analysis and results

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

Condensation And Coherence In Condensed Matter, Proceedings Of The Nobel Jubilee Symposium T Claeson, P Delsing, 2003-03-21 In 2001 the Nobel Foundation celebrated the 100th anniversary of the first Nobel Prize and all previous Nobel laureates were invited to attend the Nobel ceremonies in Stockholm This gave an excellent opportunity for arranging jubilee symposia with topics that would attract several of the laureates The chosen subject of Condensation and Coherence in Condensed Systems attracted sixteen Nobel laureates and another thirty five leading scientists The idea was to bring scientists together from several related subdisciplines atomic physics quantum optics and condensed matter physics for cross breeding of ideas concepts and experience Subjects like phase transitions in strongly coupled systems Bose Einstein condensation in weakly coupled systems macroscopic quantum phenomena coherence in mesoscopic structures and quantum information were intensively discussed from different points of view Coherence phenomena in condensed systems were emphasized A special session was devoted to the emerging field of quantum computing with experimental and theoretical results reported for different types of qubits The 2001 Nobel Prize awarded to Eric Cornell Wolfgang Ketterle and Carl Wieman for the achievement of Bose Einstein condensation in dilute gases of alkali atoms and for early fundamental studies of the properties

of the condensates gave an extra flavor to the theme of the Centennial Symposium

Radiation-Chemical Processes in Solid Phase Evgeniy I. Grigoriev, Leonid I. Trakhtenberg, 1996-11-14 Unlike many other references *Radiation Chemical Processes in Solid Phase* analyzes experimental data on radiolysis in terms of solid state physics. It traces the effect exerted by media from primary processes of radiation substance interaction to final products. The authors consider the main chemically active elementary excitations arising under irradiation of solids and discuss the mechanisms of chemical reactions induced by them. They present the general principles of solid state and molecular physics and cover numerous radiation chemical processes.

Low-Temperature Physics Christian Enss, Siegfried Hunklinger, 2005-12-05 Science is often a journey to the limits of the feasible and ascertainable. In low temperature physics this journey strives towards absolute zero. When Louis Cailletet on December 2nd 1877 realized a major step in terms of the production of low temperatures namely the first liquefaction of oxygen he could hardly imagine the wealth of exciting physical phenomena that would be discovered in this field. Despite the anticipation from everyday experience which generally equates cold with discomfort and stifling condensed matter at low temperatures reveals a wide array of fascinating properties. As the most prominent examples let us mention superfluidity and superconductivity whose attraction is undiminished since their discovery. With every step towards lower temperatures numerous new insights have resulted which make the traditional subject of low temperature physics an attractive and modern research topic. The present book is based on material from lectures that both authors have given several times at the universities of Heidelberg Bayreuth and Konstanz. It is focused on the discussion of physical phenomena that become most apparent at low temperatures. The book is mainly aimed at students and provides a compact and comprehensible introduction to various topics of low temperature physics. Selection and emphasis of the material is subjective and certainly reflects our personal preferences. However we have tried to give room for as wide a spectrum of topics as possible. The contents are organized in three parts entitled quantum fluids solids at low temperatures and principles of refrigeration and thermometry.

Quantum Dissipative Systems (Fifth Edition) Ulrich Weiss, 2021-09-21 This comprehensive textbook provides the fundamental concepts and methods of dissipative quantum mechanics and related issues in condensed matter physics starting from first principles. It deals with the phenomena and theory of decoherence relaxation and dissipation in quantum mechanics that arise from the random exchange of energy with the environment. Major theoretical advances in combination with stunning experimental achievements and the arising perspective for quantum computing have brightened the field and brought it to the attention of the general community in natural sciences. Expertise in dissipative quantum mechanics is by now beneficial in a broad sphere. This book originally published in 1992 and republished as enlarged and updated second third and fourth edition in 1999 2008 and 2012 dives even deeper into the fundamental concepts methods and applications of quantum dissipation. The fifth edition provides a self contained and updated account of the quantum mechanics and quantum statistics of open systems. The subject matter of the book has been thoroughly revised to better comply with the needs of

newcomers and the demands of the advanced readership Most of the chapters are rewritten to enhance clarity and topicality Four new chapters covering recent developments in the field have been added There are about 600 references This book is intended for use by advanced undergraduate and graduate students in physics and for researchers active in the field They will find the monograph as a rich and stimulating source

Tunneling in Complex Systems Steven Tomsovic, 1998 The influential political philosopher Leo Strauss has been credited by conservatives with the recovery of the great tradition of political philosophy stretching back to Plato Among Strauss's most enduring legacies is a strongly negative assessment of Nietzsche as the modern philosopher most at odds with that tradition and most responsible for the sins of twentieth century culture relativism godlessness nihilism and the breakdown of family values In fact this apparent denunciation has become so closely associated with Strauss that it is often seen as the very core of his thought In *Leo Strauss and Nietzsche* the eminent Nietzsche scholar Laurence Lampert offers a controversial new assessment of the Strauss Nietzsche connection Lampert undertakes a searching examination of the key Straussian essay Note on the Plan of Nietzsche's Beyond Good and Evil He shows that this essay written toward the end of Strauss's life and placed at the center of his final work reveals an affinity for and debt to Nietzsche greater than Strauss's followers allow Lampert argues that the essay comprises the most important interpretation of Nietzsche ever published one that clarifies Nietzsche's conception of nature and of human spiritual history and demonstrates the logical relationship between the essential themes in Nietzsche's thought the will to power and the eternal return

Condensation and Coherence in Condensed Matter Tord Claeson, P. Delsing, 2003 In 2001 the Nobel Foundation celebrated the 100th anniversary of the first Nobel Prize and all previous Nobel laureates were invited to attend the Nobel ceremonies in Stockholm This gave an excellent opportunity for arranging jubilee symposia with topics that would attract several of the laureates The chosen subject of Condensation and Coherence in Condensed Systems attracted sixteen Nobel laureates and another thirty five leading scientists The idea was to bring scientists together from several related subdisciplines atomic physics quantum optics and condensed matter physics for cross breeding of ideas concepts and experience Subjects like phase transitions in strongly coupled systems Bose Einstein condensation in weakly coupled systems macroscopic quantum phenomena coherence in mesoscopic structures and quantum information were intensively discussed from different points of view Coherence phenomena in condensed systems were emphasized A special session was devoted to the emerging field of quantum computing with experimental and theoretical results reported for different types of qubits The 2001 Nobel Prize awarded to Eric Cornell Wolfgang Ketterle and Carl Wieman for the achievement of Bose Einstein condensation in dilute gases of alkali atoms and for early fundamental studies of the properties of the condensates gave an extra flavor to the theme of the Centennial Symposium

Relaxation in Polymers Takayoshi Kobayashi, 1993 Conjugated polymers are attractive from the viewpoint of possible applications as novel nonlinear optical materials and conductive materials They are also very important as a group of materials of one dimensionality The progress of research in this field is

very rapid At the present stage it is extremely useful to have review articles giving information on the most recent progress Relaxation in Polymers contains state of the art reviews on ultrafast responses in various conjugated polymers with large optical nonlinearity ultrafast relaxation in polysilanes electronic properties of polysilanes fast transient photoconductivity studies of polyacetylene and polydiacetylene evolution of photoexcitations in polyacetylene and related polymers from femtoseconds to milliseconds photoexcited states in conjugated polymers optical properties of halogen bridged mixed valent metal complexes and dynamics of soliton pairs in polyacetylene

Introductory Essays M. M. Pinar, 2013-03-12 This set of essays was given as lectures at the 4th Waterloo International Summer School on Nuclear Magnetic Resonance held in June 1975 at the University of Waterloo The school was sponsored by the National Research Council of Canada and by the Canadian Association of Physicists These Contributions are introductory and were not intended to be review papers For valuable help I would like to thank R S Hallsworth D W Nicoll and R T Thompson M M Pinar Table of Contents A Guide to Relaxation Theory By A G Redfield 1 Thermodynamics of Spin Systems in Solids An Elementary Introduction By J Jeener 13 Coherent Averaging and Double Resonance in Solids By J S Waugh 23 Macroscopic Dipole Coherence Phenomena By E L Hahn 31 Nuclear Spins and Non Resonant Electromagnetic Phenomena By G J Bene 45 Nuclear Spin Relaxation in Molecular Hydrogen By F R McCourt 55 Longitudinal Nuclear Spin Relaxation Time Measurements in Molecular Gases By R L Armstrong 71 Spin Lattice Relaxation in Nematic Liquid Crystals Via the Modulation of the Intramolecular Dipolar Interactions by Order Fluctuations By R Blinc 97 NMR Studies of Molecular Tunnelling By S Clough 113 Effect of Molecular Tunnelling on NMR Absorption and Relaxation in Solids By M M Pinar 125

Physics Of Semiconductors - Proceedings Of The 20th International Conference (In 3 Volumes) E M Anastassakis, John D Joannopoulos, 1990-11-29 Gathering top experts in the field the 20th ICPS proceedings reviews the progress in all aspects of semiconductor physics The proceedings will include state of the art lectures with special emphasis on exciting new developments It should serve as excellent material for researchers in this and related fields

Advances in Photochemistry, Volume 24 Douglas C. Neckers, David H. Volman, Günther von Bülow, 2009-09-24 Setting the pace for progress and innovation There is no doubt that these are hot and exciting research areas Advances in Photochemistry could easily serve as a definitive source of background information for future researchers Journal of the American Chemical Society For any library wishing to maintain a first rate reference series on the photochemical literature Physics Today More than a simple survey of the current literature Advances in Photochemistry offers critical evaluations written by internationally recognized experts These pioneering scientists offer unique and varied points of view of the existing data Their articles are challenging as well as provocative and are intended to stimulate discussion promote further research and encourage new developments in the field In this volume Optical Single Molecule Detection at Room Temperature ALFRED J MEIXNER Pressure Tuning Photochemistry of Metal Complexes in Solution RUDI VAN ELDIK AND PETER C FORD Photo Induced and Spontaneous Proton Tunneling in Molecular Solids H

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Quantum-well and Superlattice Physics III Gottfried H. Döhler, Emil S. Koteles, Joel N. Schulman, 1990 **Noise in Spintronics** Farkhad Aliev, Juan Pedro Cascales, 2018-09-04 This book covers the main physical mechanisms and the different contributions 1 f noise shot noise etc behind electronic fluctuations in various spintronic devices It presents the first comprehensive summary of fundamental noise mechanisms in both electronic and spintronic devices and is therefore unique in that aspect The pedagogic introduction to noise is complemented by a detailed description of how one could set up a noise measurement experiment in the lab A further extensive description of the recent progress in understanding and controlling noise in spintronics including the boom in 2D devices molecular spintronics and field sensing is accompanied by both numerous bibliography references and tens of case studies on the fundamental aspects of noise and on some important qualitative steps to understand noise in spintronics Moreover a detailed discussion of unsolved problems and outlook make it an essential textbook for scientists and students desiring to exploit the information hidden in noise in both spintronics and conventional electronics *Quantum Tunneling in Complex Systems* Joachim Ankerhold, 2007-02-15 In the last two decades remarkable progress has been made in understanding and describing tunneling processes in complex systems in terms of classical trajectories This book introduces recent concepts and achievements with particular emphasis on a dynamical formulation and relations to specific systems in mesoscopic molecular and atomic physics Advanced instanton techniques e g for decay rates and tunnel splittings are discussed in the first part The second part covers current developments for wave packet tunneling in real time and the third part describes thermodynamics and dynamical approaches for barrier transmission in statistical particularly dissipative systems

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