

Quantum Aspects of Molecular Motions in Solids

Edited by A. Heidemann, A. Magerl,
M. Prager, D. Richter, and T. Springer



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D.P. Landau, S.P. Lewis, H.-B. Schüttler



Quantum Aspects Of Molecular Motions In Solids:

Quantum Aspects of Molecular Motions in Solids Anton Heidemann, Andreas Magerl, Michael Prager, Dieter Richter, Tasso Springer, 2012-12-06 The Institut Max von Laue Paul Langevin ILL in Grenoble regularly organizes workshops that deal with various applications of neutrons in physics chemistry biology and materials science The workshop Quantum Aspects of Molecular Motions in Solids was jointly organized by the Institut Laue Langevin and the Institut für Festkörperforschung at the Kernforschungsanlage Jülich and took place in September 1986 in Grenoble Tunneling phenomena in molecular crystals were first observed with macroscopic methods like specific heat experiments and later also with NMR Finally the development of high resolution neutron scattering techniques like neutron backscattering led to direct spectroscopic observation of the tunnel split ground state This breakthrough was achieved in 1975 at Jülich Since then the large variety of high resolution techniques available in combination with high neutron flux have turned ILL into the leading laboratory in the field of tunneling spectroscopy Since 1980 regular meetings of scientists involved in this topic have been organized every two years Jülich Braunschweig Nottingham and have led to an intense exchange of ideas and experimental results The present workshop is the fourth of this series and the first with published proceedings presenting the state of the art in this field The eight review articles introduce scientists not involved in the subject to the actual discussion Sessions on translational tunneling of light interstitials in metals as well as on tunneling phenomena in amorphous substances provide bridges to adjacent fields

Quantum Aspects of Molecular Motions in Solids Anton Heidemann, Andreas Magerl, Michael Prager, 1987-03-05 **Quantum Aspects of Molecular Motions in Solids**, 1987 **Workshop on Quantum Aspects of Molecular Motions in Solids, September 24-26, 1986**, 1986 Computer Simulation Studies in Condensed-Matter Physics XIII D.P. Landau, S.P. Lewis, H.-B. Schüttler, 2012-12-06 Almost fifteen years ago because of the

phenomenal growth in the power of computer simulations The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching The Center for Simulation Physics As the international simulations community expanded further we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted extended discussion As a consequence the Center for Simulation Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year's workshop was the thirteenth in this series and the continued interest shown by the scientific community demonstrates quite clearly the useful purpose that these meetings have served The latest workshop was held at The University of Georgia February 21-25 2000 and these proceedings provide a status report on a number of important topics This volume is published with the goal of timely dissemination of the material to a wider audience We wish to offer a special thanks to the IBM Corporation for its generous support of this year's workshop We also acknowledge the Donors of the Petroleum Research Fund administered by the American Chemical Society and the

National Science Foundation for partial support This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics

Computer Simulation Studies in Condensed-Matter Physics XI David P. Landau, Heinz-Bernd Schüttler, 2012-12-06 More than a decade ago because of the phenomenal growth in the power of computer simulations The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching The Center for Simulational Physics As the simulations community expanded further we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted extended discussion As a consequence the Center for Simulational Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year's workshop was the eleventh in this series and the interest shown by the scientific community demonstrates quite clearly the useful purpose which the series has served The latest workshop was held at The University of Georgia February 23-27 1998 and these proceedings provide a status report on a number of important topics This volume is published with the goal of timely dissemination of the material to a wider audience We wish to offer a special thanks to IBM Corporation for their generous support of this year's workshop This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms methods of analysis and conceptual developments Athens GA U S A D P Landau April 1998 H B

Computational Approaches in Condensed-Matter Physics Seiji Miyashita, Masatoshi Imada, Hajime Takayama, 2012-12-06 Interacting many body systems are the main subjects of research in theoretical condensed matter physics and they are the source of both the interest and the difficulty in this field In order to understand the macroscopic properties of matter in terms of macroscopic knowledge many analytic and approximate methods have been introduced The contributions to this proceedings volume focus on the most recent developments of computational approaches in condensed matter physics Monte Carlo methods and molecular dynamics simulations applied to strongly correlated classical and quantum systems such as electron systems quantum spin systems spin glasses coupled map systems polymers and other random and complex systems are reviewed Comprising easy to follow introductions to each field covered and also more specialized contributions this proceedings volume explains why computational approaches are necessary and how different fields are related to each other

Computer Simulation Studies in Condensed-Matter Physics XII D. P. Landau, S. P. Lewis, H.-B. Schüttler, 2012-12-06 More than a decade ago because of the phenomenal growth in the power of computer simulations The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching The Center for Simulational Physics As the simulations community expanded further we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted extended discussion As a consequence the Center for Simulational Physics established an

annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year's workshop was the twelfth in this series It was held at The University of Georgia March 8-12 1999 as an unofficial satellite conference to the Centennial Meeting of the American Physical Society in Atlanta GA The continued interest shown by the scientific community demonstrates quite clearly the useful purpose which the series has served These proceedings provide a status report on a number of important topics This volume is published with the goal of timely dissemination of the material to a wider audience We wish to offer special thanks to IBM Corporation for their generous support of this year's workshop This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms methods of analysis and conceptual developments

Computer Simulation Studies in

Condensed-Matter Physics VIII David P. Landau, Kin-Keung Mon, Heinz-Bernd Schüttler, 2012-12-06 Computer Simulation Studies in Condensed Matter Physics VIII covers recent developments in this field presented at the 1995 workshop such as new algorithms methods of analysis and conceptual developments This volume is composed of three parts The first part contains invited papers that deal with simulational studies of classical systems The second part is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models The final part comprises contributed presentations

Computer Simulation Studies in Condensed-Matter Physics IX David P.

Landau, Kin-Keung Mon, Heinz-Bernd Schüttler, 2012-12-06 Computer Simulation Studies in Condensed Matter Physics IX covers recent developments in this field This workshop was the ninth in this series and was held at the University of Georgia March 4-9 1996 and these proceedings form a record which is published with the goal of timely dissemination of the material to a wider audience This volume is composed of three parts The first section contains invited papers that deal with simulational studies of classical systems The second section of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models The final section comprises contributed presentations

Computer Simulation Studies in Condensed-Matter Physics IV David P. Landau, K.K.

Mon, Heinz-Bernd Schüttler, 2012-12-06 The contribution of computer simulation studies to our understanding of proper ties of a wide range of condensed matter systems is now well established The Center for Simulational Physics has been hosting annual workshops with the intent of bringing together some of the experienced practitioners in the field as well as relative newcomers in the field to provide a forum for the exchange of ideas and recent results This year's workshop the fourth in the series was held at the University of Georgia February 18-22 1991 These proceedings are a record of the workshop and are published with the goal of timely dissemination of the papers to a wider audience The proceedings are divided into three parts The first part contains invited papers which deal with simulational studies of classical systems and includes an introduction to some new simulation techniques and special purpose computers as well A separate section of the

proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models believed to be important for the description of high T_c superconductors The contributed presentations comprise the final chapter **Present and Future of High-Energy Physics** Ken-Ichi Aoki, Makoto Kobayashi, 2012-12-06

Recently the collaboration between theory and experiments in high energy physics has become again more fruitful important and practically indispensable The contributions to this volume clearly summarize in terms of the standard model of elementary particles the present understanding of high energy physics and present an outlook how to go beyond this standard model Phenomenological aspects are stressed outlining possible extensions of the standard model with main topics covering higher order corrected electroweak interactions CP violation quark flavour mixing lattice QCD and dynamical electroweak symmetry breaking Many new experiments are described to explore high energy physics either by the highest available accelerators or by very high precision experiments for rare processes Including a variety of theoretical models proposed beyond the standard model it presents a global knowledge and a balanced view of high energy physics reaching beyond this decade Computer Simulation Studies in Condensed-Matter Physics X David P. Landau, Kin-Keung

Mon, Heinz-Bernd Schüttler, 2012-12-06 Computer Simulation Studies in Condensed Matter Physics X is devoted to Prof Masuo Suzuki's ideas which have made novel new simulations possible These proceedings of the 1997 workshop comprise three parts that deal with new algorithms methods of analysis and conceptual developments The first part contains invited papers that deal with simulational studies of classical systems The second of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models The final part contains a large number of contributed presentations **Computer Simulation Studies in Condensed-Matter Physics VII** David P.

Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 Computer Simulation Studies in Condensed Matter Physics VII provides a broad overview of recent developments Presented at the recent workshop it contains the invited and contributed papers which describe new physical results simulational techniques and ways of interpreting simulational data Both classical and quantum systems are discussed **Recent Topics in Theoretical Physics** Hajime Takayama, 2012-12-06 My dear friends I

am very pleased and honored to give the opening address in the first Nishinomiya Yukawa Memorial Symposium on Theoretical Physics Nishinomiya City wishes to extend a warm and sincere welcome to the many participants here in this Symposium Nishinomiya is the city where Dr Hideki Yukawa 1907-1981 was living when he published the famous paper On the Interactions of Elementary Particles I in 1935 For this work he was awarded the Nobel Prize for Physics in 1949 To celebrate the 50th anniversary of his meson theory our city has started the Nishinomiya Yukawa Memorial Activities to promote the study of the theoretical physics which we believe is important for the progress of human society The annual activities consist of this Symposium the Nishinomiya Yukawa Memorial Prize for promising young physicists and Memorial Lectures for citizens every year They are conducted by the Steering Committee the chairman of which is Professor K

Nishijima the director of the Research Institute for Fundamental Physics Kyoto University I would like to express my sincere gratitude to the members of this Committee for their great efforts as well as to the members of the Organizing Committee of this Symposium Dr Yukawa said in his book *Tabibito* A traveler in Japanese One who inquires into the truth is just like a traveler without a map I shall be very happy and proud if this Symposium is successful and provides a useful map for many particularly for young physicists

The Structure and Conformation of Amphiphilic Membranes Reinhard Lipowsky, Dieter Richter, Kurt Kremer, 2013-03-08 Membranes composed of amphiphilic molecules are highly flexible surfaces that determine the architecture of biological systems and provide a basic structural element for complex fluids such as microemulsions Recently a variety of new experimental methods such as X ray scattering neutron scattering and atomic force microscopy have been used in order to study the molecular structure of these membranes Their conformational behavior on the other hand is studied by optical and electron microscopy which reveals that membranes in aqueous solution exhibit an amazing variety of different shapes Several theoretical concepts are described such as bending elasticity curvature and minimal surfaces in order to understand this polymorphism These concepts are also useful to describe the behavior of membranes in complex fluids where they can build up hexagonal lamellar triply periodic cubic and sponge phases The contributions to this volume provide an up to date overview and describe the state of the art of this rapidly evolving field of research

Computer Simulation Studies in Condensed-Matter Physics VI David P. Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 Computer Simulation Studies in Condensed Matter Physics VI provides a broad overview of recent developments in this field Based on the last workshop it presents invited and contributed papers which describe new physical results simulational techniques and ways of interpreting simulational data Both classical and quantum systems are discussed

Photons and Continuum States of Atoms and Molecules Carla Guidotti, Maria Allegrini, 2012-12-06 Since 1981 there has been an attempt in Europe to organize a series of small meetings workshops tavole rotonde with the aim of bringing together physicists and chemists interested in problems concerning atoms or molecules interacting with external photons where the continua are investigated The number of problems that fall into this category turns out to be vast However it is not possible to make a strict separation into problems concerning atomic and molecular collisions and those related to the usual spectroscopy This admixture of two disciplines discussions on the role of photons and on the interaction of external electromagnetic fields with the continuum provided a central motivation for these workshops The fourth of this series of meetings was held at Cortona between June 16 and 20 1986 It was attended by about 100 researchers in the field and there were 43 presentations all having equal time These talks form the subject matter of this volume The idea of publishing the proceedings of these meetings is not new It allows one to have small meetings in which the subject matter can be discussed at length in a lively atmosphere However after the meeting is over the speakers can collect their thoughts and produce articles in which the results of their interaction with the other participants can be incorporated

Computer Simulation Studies in Condensed-Matter Physics V

David P. Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 As the role of computer simulations began to increase in importance we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and results in an environment which promotes extended discussion As a consequence of these concerns The Center for Simulational Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year's workshop was the fifth in this series and the interest which the scientific community has shown demonstrates quite clearly the useful purpose which the series has served The workshop was held at the University of Georgia February 17-21 1992 and these proceedings form a record of the workshop which is published with the goal of timely dissemination of the papers to a wider audience The proceedings are divided into four parts The first part contains invited papers which deal with simulational studies of classical systems and includes an introduction to some new simulation techniques and special purpose computers as well A separate section of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models The third section is comprised of a single invited description of a newly developed software shell designed for running parallel programs The contributed presentations comprise the final chapter The Time Domain in Surface and Structural Dynamics G.J Long, F. Grandjean, 2012-12-06 About two years ago while studying the dynamic properties of Fe CO IJ we realized that there was virtually no single source of information on the structural dynamics of materials The time domain of different dynamic structural processes covers many orders of magnitude and may be investigated by numerous vastly different experimental techniques Indeed the subject seemed appropriate for a NATO Advanced Study Institute at which we could bring together chemists physicists metallurgists and bioscientists using the various techniques for the study of sundry time sensitive materials The actual Advanced Study Institute which met in Il Ciocco Italy from 14 to 26 June 1987 was in fact a dynamic experience for those of us involved Now we have come to the final phase the communication of the results of this Advanced Study Institute to the general scientific community In so doing we hope to provide in one place a convenient source of information on dynamics at the surface and within a solid state material The beautiful mountainous setting of Tuscany and especially the idyllic surroundings of Il Ciocco provided an ideal venue for the Advanced Study Institute Our field trip to Pisa linked our topic to the history of time measurement through a visit to the Pisa cathedral where presumably Galileo first conceived the isochronism of the simple pendulum and its use in time measurement

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Table of Contents Quantum Aspects Of Molecular Motions In Solids

1. Understanding the eBook Quantum Aspects Of Molecular Motions In Solids
 - The Rise of Digital Reading Quantum Aspects Of Molecular Motions In Solids
 - Advantages of eBooks Over Traditional Books
2. Identifying Quantum Aspects Of Molecular Motions In Solids
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Quantum Aspects Of Molecular Motions In Solids
 - User-Friendly Interface
4. Exploring eBook Recommendations from Quantum Aspects Of Molecular Motions In Solids

- Personalized Recommendations
 - Quantum Aspects Of Molecular Motions In Solids User Reviews and Ratings
 - Quantum Aspects Of Molecular Motions In Solids and Bestseller Lists
5. Accessing Quantum Aspects Of Molecular Motions In Solids Free and Paid eBooks
 - Quantum Aspects Of Molecular Motions In Solids Public Domain eBooks
 - Quantum Aspects Of Molecular Motions In Solids eBook Subscription Services
 - Quantum Aspects Of Molecular Motions In Solids Budget-Friendly Options
 6. Navigating Quantum Aspects Of Molecular Motions In Solids eBook Formats
 - ePub, PDF, MOBI, and More
 - Quantum Aspects Of Molecular Motions In Solids Compatibility with Devices
 - Quantum Aspects Of Molecular Motions In Solids Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Quantum Aspects Of Molecular Motions In Solids
 - Highlighting and Note-Taking Quantum Aspects Of Molecular Motions In Solids
 - Interactive Elements Quantum Aspects Of Molecular Motions In Solids
 8. Staying Engaged with Quantum Aspects Of Molecular Motions In Solids
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Quantum Aspects Of Molecular Motions In Solids
 9. Balancing eBooks and Physical Books Quantum Aspects Of Molecular Motions In Solids
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Quantum Aspects Of Molecular Motions In Solids
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Quantum Aspects Of Molecular Motions In Solids
 - Setting Reading Goals Quantum Aspects Of Molecular Motions In Solids
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Quantum Aspects Of Molecular Motions In Solids

- Fact-Checking eBook Content of Quantum Aspects Of Molecular Motions In Solids
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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