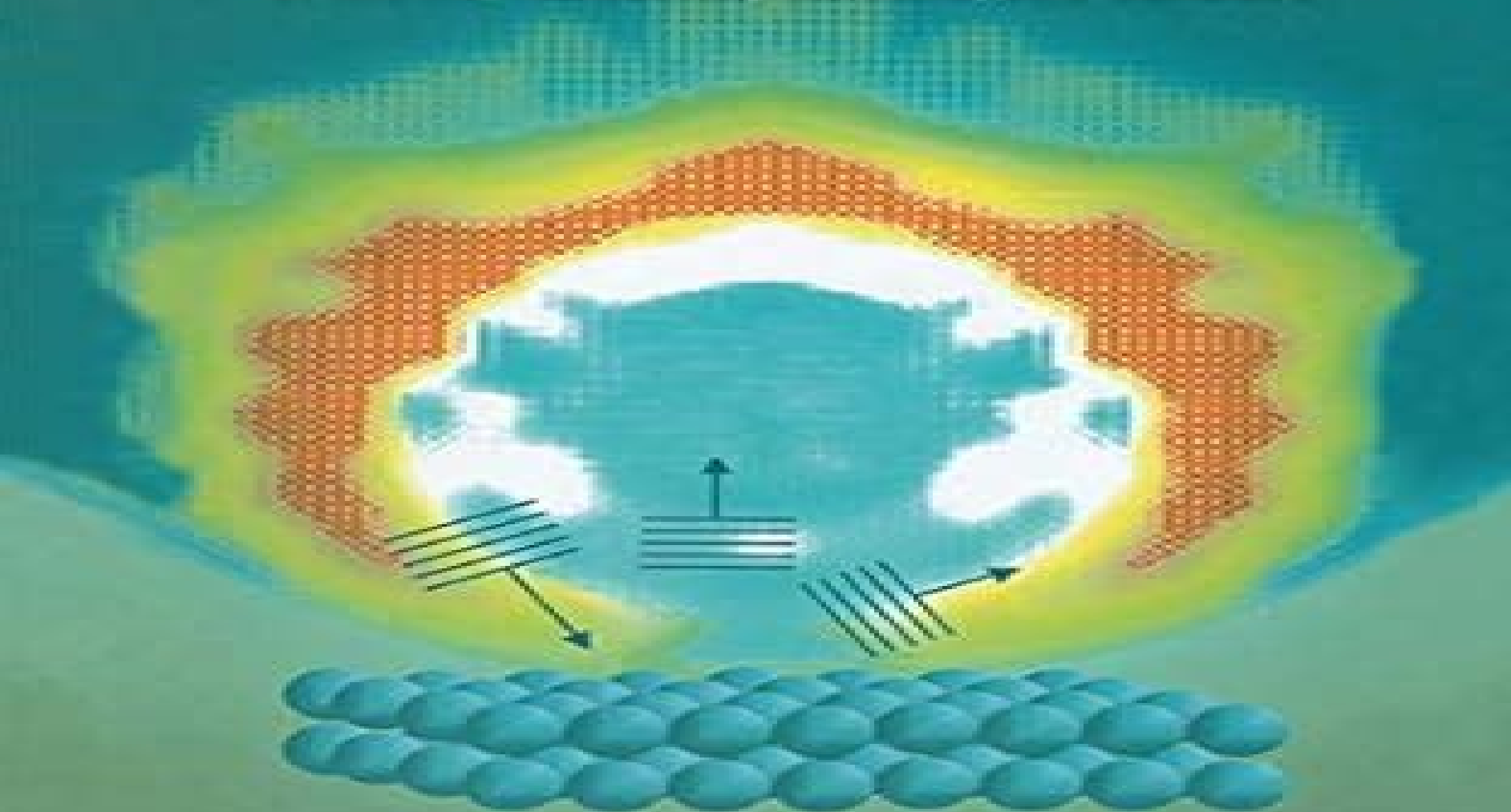


Many-Particle Spectroscopy of Atoms, Molecules, Clusters, and Surfaces



Edited by
J. Berakdar and J. Kirschner

Many Particle Spectroscopy Of Atoms Molecules Clusters And Surfaces

Peru Jena, S.N. Khanna, B.K.N. Rao



Many Particle Spectroscopy Of Atoms Molecules Clusters And Surfaces:

Many-Particle Spectroscopy of Atoms, Molecules, Clusters, and Surfaces J. Berakdar, J. Kirschner, 2012-12-06 Since the early days of modern physics spectroscopic techniques have been employed as a powerful tool to assess existing theoretical models and to uncover novel phenomena that promote the development of new concepts Conventionally the system to be probed is prepared in a well defined state Upon a controlled perturbation one measures then the spectrum of a single particle electron photon etc emitted from the probe The analysis of this single particle spectrum yields a wealth of important information on the properties of the system such as optical and magnetic behaviour Therefore such analysis is nowadays a standard tool to investigate and characterize a variety of materials However it was clear at a very early stage that real physical compounds consist of many coupled particles that may be excited simultaneously in response to an external perturbation Yet the simultaneous coincident detection of two or more excited species proved to be a serious technical obstacle in particular for extended electronic systems such as surfaces In recent years however coincidence techniques have progressed so far as to image the multi particle excitation spectrum in an impressive detail Correspondingly many body theoretical concepts have been put forward to interpret the experimental findings and to direct future experimental research This book gives a snapshot of the present status of multi particle coincidence studies both from a theoretical and an experimental point of view It also includes selected topical review articles that highlight the achievements and the power of coincident techniques

Many-Particle Spectroscopy of Atoms, Molecules, Clusters, and Surfaces J. Berakdar, J. Kirschner, 2001-07-31 Since the early days of modern physics spectroscopic techniques have been employed as a powerful tool to assess existing theoretical models and to uncover novel phenomena that promote the development of new concepts Conventionally the system to be probed is prepared in a well defined state Upon a controlled perturbation one measures then the spectrum of a single particle electron photon etc emitted from the probe The analysis of this single particle spectrum yields a wealth of important information on the properties of the system such as optical and magnetic behaviour Therefore such analysis is nowadays a standard tool to investigate and characterize a variety of materials However it was clear at a very early stage that real physical compounds consist of many coupled particles that may be excited simultaneously in response to an external perturbation Yet the simultaneous coincident detection of two or more excited species proved to be a serious technical obstacle in particular for extended electronic systems such as surfaces In recent years however coincidence techniques have progressed so far as to image the multi particle excitation spectrum in an impressive detail Correspondingly many body theoretical concepts have been put forward to interpret the experimental findings and to direct future experimental research This book gives a snapshot of the present status of multi particle coincidence studies both from a theoretical and an experimental point of view It also includes selected topical review articles that highlight the achievements and the power of coincident techniques

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Clusters and Surfaces 2014 (MPS 2014), 2015 *International Conference on Many Particle Spectroscopy of Atoms, Molecules, Clusters and Surfaces (MPS 2014)* International Conference on Many Particle Spectroscopy of Atoms, Molecules, and Surfaces, 2015 *International Conference on Many Particle Spectroscopy of Atoms, Molecules, Clusters and Surfaces*, 2008 MPS 2014 Lorenzo Ugo Ancarani, Claude Dal Cappello, Angela Dell'Annunziata, Lorenzo Avaldi, Klaus Bartschat, Jamal Berakdar, Structures et réactivité des systèmes moléculaires complexes (Nancy), 2014 *Correlation Spectroscopy of Surfaces, Thin Films, and Nanostructures* Jamal Berakdar, Jürgen Kirschner, 2006-03-06 Here leading scientists present an overview of the most modern experimental and theoretical methods for studying electronic correlations on surfaces in thin films and in nanostructures In particular they describe in detail coincidence techniques for studying many particle correlations while critically examining the informational content of such processes from a theoretical point viewpoint Furthermore the book considers the current state of incorporating many body effects into theoretical approaches Covered topics Auger electron photoelectron coincidence experiments and theories Correlated electron emission from atoms fullerenes clusters metals and wide band gap materials Ion coincidence spectroscopies and ion scattering theories from surfaces GW and dynamical mean field approaches Many body effects in electronic and optical response *Many-Particle Quantum Dynamics in Atomic and Molecular Fragmentation* Joachim Ullrich, V.P. Shevelko, 2013-06-29 This book aims to give a comprehensive view on the present status of a tremendously fast developing field the quantum dynamics of fragmenting many particle Coulomb systems In striking contrast to the profound theoretical knowledge achieved from extremely precise experimental results on the static atomic and molecular structure it was only three years ago when the three body fundamental dynamical problem of breaking up the hydrogen atom by electron impact was claimed to be solved in a mathematically consistent way Until now more complicated though still fundamental scenarios addressing the complete fragmentation of the simplest many electron system the helium atom under the action of a time dependent external force have withstood any consistent theoretical description Exceptions are the most trivial situations where the breakup is induced by the impact of a single real photon or of a virtual photon under a perturbation caused by fast low charged particle impact Similarly the dissociation of the simplest molecular systems like H₂ or HD fragmenting in collisions with slow electrons or the H₃ molecule breaking apart into two or three pieces as a result of a single laser photon excitation establish a major challenge for state of the art theoretical approaches **Fast Ion-atom And Ion-molecule Collisions** Dzevad Belkic, 2012-09-24 The principal goal of this book is to provide state of the art coverage of the non relativistic three and four body theories at intermediate and high energy ion atom and ion molecule collisions The focus is on the most frequently studied processes electron capture ionization transfer excitation and transfer ionization The content is suitable both for graduate students and experienced researchers For these collisions the literature has seen enormous renewal of activity in the development and applications of quantum mechanical theories This subject is of relevance in several branches of science

and technology like accelerator based physics the search for new sources of energy and high temperature fusion of light ions Other important applications are in life sciences via medicine where high energy ion beams are used in radiotherapy for which a number of storage ring accelerators are in full operation under construction or planned to be built worldwide Therefore it is necessary to review this field for its most recent advances with an emphasis on the prospects for multidisciplinary applications

International Conference on Many Particle Spectroscopy of Atoms, Molecules, Clusters and Surfaces, 2011 **Solid-State Photoemission and Related Methods** Wolfgang Schattke, Michel A. Van Hove, 2008-09-26

Photoemission is one of the principal techniques for the characterization and investigation of condensed matter systems The field has experienced many developments in recent years which may also be put down to important achievements in closely related areas This timely and up to date handbook is written by experts in the field who provide the background needed by both experimentalists and theorists It represents an interesting framework for showing the connection between theory and experiment by bringing together different concepts in the investigation of the properties of materials The work addresses the geometric and electronic structure of solid surfaces and interfaces theoretical methods for direct computation of spectra experimental techniques for data acquisition and physical models for direct data interpretation It also includes such recent developments as full hemisphere acceptance in photoemission two electron photoemission e^2e electron diffraction and photoelectron electron hole interaction Electron and Photon Impact Ionisation and Related Topics 2002 L.U Ancarani, 2003-05-01

Electron and Photon Impact Ionisation and Related Topics 2002 provides an overview of recent international research in the field of ionization by electron and photon impact Emphasizing multi particle coincidence studies such as e^2e e^3e ionization excitation and double photo ionization the book contains 18 contributions of recent experim *Electron Scattering* Colm T. Whelan, Nigel J. Mason, 2006-01-17

There is a unity to physics it is a discipline which provides the most fundamental understanding of the dynamics of matter and energy To understand anything about a physical system you have to interact with it and one of the best ways to learn something is to use electrons as probes This book is the result of a meeting which took place in Magdalene College Cambridge in December 2001 Atomic nuclear cluster soHd state chemical and even bio physicists got together to consider scattering electrons to explore matter in all its forms Theory and experiment were represented in about equal measure It was meeting marked by the most lively of discussions and the free exchange of ideas We all learnt a lot The Editors are grateful to EPSRC through its Collaborative Computational Project program CCP2 IOPP the Division of Atomic Molecular Optical and Plasma Physics DAMOPP and the Atomic Molecular Interactions group AMIG of the Institute of Physics for financial support The smooth running of the meeting was enormously facilitated by the efficiency and helpfulness of the staff of Magdalene College for which we are extremely grateful This meeting marked the end for one of us CTW of a ten year period as a fellow of the College and he would like to take this opportunity to thank the fellows and staff for the privilege of working with them International

Conference on Many Particle Spectroscopy of Atoms, Molecules, Clusters and Surfaces Institute of Physics, 2011 *Photon induced inner-shell excitation processes of nitrous oxide probed by angle resolved fluorescence and Auger-Electron spectrometry* André Knie, 2013 Strategic Research at the Frontiers of Chemistry, 1995 *Atom, Molecule, and Cluster Beams II* Hans Pauly, 2013-04-17 This book completes the physical foundations and experimental techniques described in volume 1 with an updated review of the accessory equipment indispensable in molecular beam experiments It extends the subject to cluster beams and beams of hyperthermal and subthermal energies *Correlation and Polarization in Photonic, Electronic, and Atomic Collisions* Georg Friedrich Hanne, Laurence Malegat, Horst Schmidt-Böcking, 2003-12-19 The focus of the present proceedings is on the dynamics of simple collision systems on the atomic scale with special attention to many body effects in the induced excitation ionization fragmentation processes The systems range from atoms to molecules clusters and surfaces interacting with projectiles including electrons ions and photons from synchrotron as well as laser sources It is essential to any scientist in the field as well as to any student engaged in a course of fundamental atomic physics

Theoretical Chemistry in Belgium Benoît Champagne, Michael S. Deleuze, Frank De Proft, Tom Leyssens, 2013-10-16 Readers of this volume can take a tour around the research locations in Belgium which are active in theoretical and computational chemistry Selected researchers from Belgium present research highlights of their work Originally published in the journal Theoretical Chemistry Accounts these outstanding contributions are now available in a hardcover print format This volume will be of benefit in particular to those research groups and libraries that have chosen to have only electronic access to the journal It also provides valuable content for all researchers in theoretical chemistry **Physics and Chemistry of Finite Systems: From Clusters to Crystals** Peru Jena, S.N. Khanna, B.K.N. Rao, 2013-11-11 Recent innovations in experimental techniques such as molecular and cluster beam epitaxy supersonic jet expansion matrix isolation and chemical synthesis are increasingly enabling researchers to produce materials by design and with atomic dimension These materials constrained by size shape and symmetry range from clusters containing as few as two atoms to nanoscale materials consisting of thousands of atoms They possess unique structural electronic magnetic and optical properties that depend strongly on their size and geometry The availability of these materials raises many fundamental questions as well as technological possibilities From the academic viewpoint the most pertinent question concerns the evolution of the atomic and electronic structure of the system as it grows from micro clusters to crystals At what stage for example does the cluster look as if it is a fragment of the corresponding crystal How do electrons forming bonds in micro clusters transform to bands in solids How do the size dependent properties change from discrete quantum conditions as in clusters to boundary constrained bulk conditions as in nanoscale materials to bulk conditions insensitive to boundaries How do the criteria of classification have to be changed as one goes from one size domain to another Potential for high technological applications also seem to be endless Clusters of otherwise non magnetic materials exhibit magnetic behavior when constrained by size shape and

dimension Nanoscale metal particles exhibit non linear optical properties and increased mechanical strength Similarly materials made from nanoscale ceramic particles possess plastic behavior

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