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Electron–Molecule Scattering and Photoionization

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Electron Molecule Scattering And Photoionization

Petr Carsky,Roman Curik

Electron Molecule Scattering And Photoionization:

Electron-Molecule Scattering and Photoionization P.G. Burke,J.B. West,2012-12-06 This volume contains the invited papers and selected contributed papers presented at the International Symposium on Electron Molecule Scattering and Photoionization held at SERC s Daresbury Laboratory Cheshire England from 18th to 19th July 1987 This Symposium was a Satellite Meeting to the XVth International Conference on the Physics of Electronic and Atomic Collisions ICPEAC I and follows a tradition of Satellite Meetings i n related areas of collisions held in association with previous ICPEAC s In order to make this volume as representative of the Symposium as possible Hot Topics presented orally at the meeting together with a few papers selected by the Programme Committee from the contributed posters are included The Editors are grateful to the authors for responding rapidly to the invitation to submit their contri butions for inclusion in the volume as indeed they are grateful to all the authors for the high quality of their contributions The Symposium brought together over 100 scientists from many countries and from broad interdisciplinary backgrounds to hear about current rapid advances in electron molecule scatteri ng and photoioniza tion These advances have been stimulated on the experimental side by the increasing availability of electron beams with millivolt energy resolution by synchrotron radiation sources and by intense tunable lasers On the theoretical side the introduction of new computational methods enables accurate predictions to be made resulting in a new and deeper understanding of the basic physical processes involved **Electron-Molecule and Photon-Molecule Collisions** T.N. Rescigno,2012-12-06 The First Asilomar Conference on Electron and Photon Molecule Collisions was held August 1 4 1978 in Pacific Grove California This meeting brought together forty scientists who are actively involved in theoretical studies of electron scattering by and photoionization of small molecules In this volume are collected the contributions of the invited speakers as well as the roundtable and evening discussions condensed from taped recordings of the entire proceedings The subject matter reflects current activity in the field and describes many of the techniques that are being developed and applied to molecular collision problems We would like to thank the Air Force Office of Scientific Research AFOSR and the Office of Naval Research ONR for providing the financial support that made this conference possible Special thanks are due to Dr Robert Junker of ONR and Dr Ralph Kelley of AFOSR for the interest and encouragement they provided in all phases of this meeting We also thank all the participants whose efforts and contributions made this conference a success Finally we thank Ms Charlotte MacNaughton and Ms Sara Jackson for the many hours they spent transcribing tapes and preparing this volume for publication Resonances in Electron-molecule Scattering and Photoionization ,1984 The development of reliable theoretical models for calculating the decay of quasi stationary states of molecular systems has become an important endeavor for theoretical chemists The understanding and analysis of a wide variety of physical and chemical phenomena depend on a knowledge of the behavior of these states in both collisional and photoionization problems In this article we describe the theory and calculation of these cross sections using our Linear

Algebraic Optical Potential method The theory makes optimal use of the numerical methods developed to solve large sets of coupled integral equations and the bound state techniques used by quantum chemists Calculations are presented for a representative class of diatomic and triatomic molecules at varying levels of sophistication and for collisional and photoionization cross sections 48 references 11 figures **Resonances in Electron-molecule Scattering, Van Der Waals Complexes, and Reactive Chemical Dynamics** Donald G. Truhlar,American Chemical Society. Division of Physical Chemistry,1984 **Connections Between Molecular Photoionization and Electron-molecule Scattering with Emphasis on Shape Resonances** ,1979 Most of our detailed information on the spectroscopy and dynamics of the electronic continuum of molecules is based on the complementary probes photoionization and electron scattering Though usually studied separately it is most useful to appreciate the connections between these two processes since our understanding of one is often the key to interpreting or even generating new results in the other We approach this subject in two steps First we very briefly outline the well established connections e g the Bethe Born theory and comparisons of isoelectronic systems Then we focus on a point of contact the role of shape resonances in molecular photoionization and electron molecule scattering for which a substantial amount of new information has become available Specific topics include mapping of resonances from the neutral h nu molecule to the negative ion e molecule system angular distributions and interaction with vibration **Electron-molecule Collisions and Photoionization Processes** Vincent McKoy,1983

Electron-Molecule Collisions Isao Shimamura,Kazuo Takayanagi,2013-11-11 Scattering phenomena play an important role in modern physics Many significant discoveries have been made through collision experiments Amongst diverse kinds of collision systems this book sheds light on the collision of an electron with a molecule The electron molecule collision provides a basic scattering problem It is scattering by a nonspherical multicentered composite particle with its centers having degrees of freedom of motion The molecule can even disintegrate Le dissociate or ionize into fragments some or all of which may also be molecules Although it is a difficult problem the recent theoretical experimental and computational progress has been so significant as to warrant publication of a book that specializes in this field The progress owes partly to technical develop ments in measurements and computations No less important has been the great and continuing stimulus from such fields of application as astrophysics the physics of the earth s upper atmosphere laser physics radiation physics the physics of gas discharges magnetohydrodynamic power generation and so on This book aims at introducing the reader to the problem of electron molecule collisions elucidating the physics behind the phenomena and review ing to some extent up to date important results This book should be appropri ate for graduate reading in physics and chemistry We also believe that investi gators in atomic and molecular physics will benefit much from this book Electron Correlation in Molecules – ab initio Beyond Gaussian Quantum Chemistry ,2016-01-28 Electron Correlation in Molecules ab initio Beyond Gaussian Quantum Chemistry presents a series of articles concerning important topics in quantum chemistry including surveys of current topics

in this rapidly developing field that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology Presents surveys of current topics in this rapidly developing field that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology Features detailed reviews written by leading international researchers The volume includes review on all the topics treated by world renown authors and cutting edge research contributions *Photon and Electron Collisions with Atoms and Molecules* Philip G. Burke,Charles J. Joachain,2012-12-06 Research on photon and electron collisions with atomic and molecular targets and their ions has seen a rapid increase in interest both experimentally and theoretically in recent years This is partly because these processes provide an ideal means of investigating the dynamics of many particle systems at a fundamental level and partly because their detailed understanding is required in many other fields particularly astrophysics plasma physics and controlled thermonuclear fusion laser physics atmospheric processes isotope separation radiation physics and chemistry and surface science In recent years a number of important advances have been made both on the experimental side and on the theoretical side On the experimental side these include absolute measurements of cross sections experiments using coincidence techniques the use of polarised beams and targets the development of very high energy resolution electron beams the use of synchrotron radiation sources and ion storage rings the study of laser assisted atomic collisions the interaction of super intense lasers with atoms and molecules and the increasing number of studies using positron beams

Low-Energy Electron Scattering from Molecules, Biomolecules and Surfaces Petr Carsky,Roman Curik,2016-04-19 Since the turn of the 21st century the field of electron molecule collisions has undergone a renaissance The importance of such collisions in applications from radiation chemistry to astrochemistry has flowered and their role in industrial processes such as plasma technology and lighting are vital to the advancement of next generation devices F

Many-body Theory Of Atomic Structure And Photoionization Tu-nan Chang,1993-10-31 Detailed discussions on many of the recent advances in the many body theory of atomic structure are presented by the leading experts around the world on their respective specialized approaches Emphasis is given to the photoionization dominated by the resonance structures which reveals the effect of the multi electron interaction in atomic transitions involving highly correlated atomic systems Recent experimental developments stimulated by the more advanced applications of intense lasers and short wavelength synchrotron radiation are also reviewed This book brings together a comprehensive theoretical and experimental survey of the current understanding of the basic physical processes involved in atomic processes **Computational Methods for Electron—Molecule Collisions** Franco A. Gianturco,W.M. Huo,2013-06-29 The collision of electrons with molecules and molecular ions is a fundamental pro cess in atomic and molecular physics and in chemistry At high incident electron en ergies electron molecule collisions are used to deduce molecular geometries oscillator strengths for optically allowed transitions and in the case of electron impact ionization to probe the momentum distribution of the molecule itself When the

incident electron energy is comparable to or below those of the molecular valence electrons the physics involved is particularly rich Correlation and exchange effects necessary to describe such collision processes bear a close resemblance to similar efft cts in the theory of electronic structure in molecules Compound state formations in the form of resonances and vir tual states manifest themselves in experimental observables which provide details of the electron molecule interactions Ro vibrational excitations by low energy electron collisions exemplify energy transfer between the electronic and nuclear motion The role of nonadiabatic interaction is raised here When the final vibrational state is in the continuum molecular dissociation occurs Dissociative recombination and dissociative attachment are examples of such fragmentation processes In addition to its fundamental nature the study of electron molecule collisions is also motivated by its relation to other fields of study and by its technological appli cations The study of planetary atmospheres and the interstellar medium necessarily involve collision processes of electrons with molecules and molecular ions Dynamical Processes in Atomic and Molecular Physics Gennadi Ogurtsov,Danielle Dowek,2012 Atomic and molecular physics underlie a basis for our knowledge of fundamental processes in nature and technology and in such applications as solid state physics chemistry and biology In recent years atomic and molecular physics has undergone a revolutionary change due to great achievements in computing and experimental techniques As a result it has become possible to obtain information both on atomic and molecular characteristics and on dynamics of atomic and molecular processes This e book highlights the present state of investigations in the field of atomic and molecular physics Recent theoretical developments as well as new discoveries and observations are discussed the Book should be of interest to students studying atomic and molecular physics and specialists in related fields of science and technology **Advances in Atomic, Molecular, and Optical Physics** ,1994-07-26 The latest volume in the highly acclaimed series addresses atomic collisions assessing the status of the current knowledge identifying deficiencies and exploring ways to improve the quality of cross section data Eleven articles written by foremost experts focus on cross section determination by experiment or theory on needs in selected applications and on efforts toward the compilation and dissemination of data This is the first volume edited under the additional direction of Herbert Walther Presents absolute cross sections for atomic collisions Uses benchmark measurements and benchmark calculations Discusses needs for cross section data in applications Contains a guide to data resources bibliographies and compendia Polarized Electrons J. Kessler,2013-06-29 This book deals with the physics of spin polarized free electrons Many aspects of this rapidly expanding field have been treated in review articles but to date a self contained monograph has not been available In writing this book I have tried to oppose the current trend in science that sees specialists writing primarily for like minded specialists and even physicists in closely related fields understanding each other less than they are inclined to admit I have attempted to treat a modern field of physics in a style similar to that of a textbook The presentation should be intelligible to readers at the graduate level and while it may demand concentration I hope it will not require decipher ing If the reader feels that it

occasionally dwells upon rather elementary topics he should remember that this pedestrian excursion is meant to be reasonably self contained It was for example necessary to give a simple introduction to the Dirac theory in order to have a basis for the discussion of Mott scattering one of the most important techniques in polarized electron studies *Attosecond and XUV Physics* Thomas Schultz,Marc Vrakking,2013-11-13 This book provides fundamental knowledge in the fields of attosecond science and free electron lasers based on the insight that the further development of both disciplines can greatly benefit from mutual exposure and interaction between the two communities With respect to the interaction of high intensity lasers with matter it covers ultrafast lasers high harmonic generation attosecond pulse generation and characterization Other chapters review strong field physics free electron lasers and experimental instrumentation Written in an easy accessible style the book is aimed at graduate and postgraduate students so as to support the scientific training of early stage researchers in this emerging field Special emphasis is placed on the practical approach of building experiments allowing young researchers to develop a wide range of scientific skills in order to accelerate the development of spectroscopic techniques and their implementation in scientific experiments The editors are managers of a research network devoted to the education of young scientists and this book idea is based on a summer school organized by the ATTOFEL network Energy Research Abstracts ,1990 **Physical and Chemical Mechanisms in Molecular Radiation Biology** William A. Glass,Matesh N. Varma,2012-12-06 The fundamental understanding of the production of biological effects by ionizing radiation may well be one of the most important scientific objectives of mankind such understanding could lead to the effective and safe utilization of the nuclear energy option In addition this knowledge will be of immense value in such diverse fields as radiation therapy and diagnosis and in the space program To achieve the above stated objective the U S Department of Energy DOE and its predecessors embarked upon a fundamental interdisciplinary research program some 35 years ago A critical component of this program is the Radiological and Chemical Physics Program RCPP When the RCPP was established there was very little basic knowledge in the fields of physics chemistry and biology that could be directly applied to understanding the effects of radiation on biological systems Progress of the RCPP program in its first 15 years was documented in the proceedings of a conference held at Airlie Virginia in 1972 At this conference it was clear that considerable progr ess had been made in research on the physical and chemical processes in well characterized systems that could be used to understand biological effects During this period of time most physical knowledge was obtained for the gas phase because the technology and instru mentation had not progressed to the point that measurements could be made in liquids more characteristic of biological materials *Bibliography of Low Energy Electron and Photon Cross Section Data (January 1975 Through December 1977)* J. W. Gallagher,John R. Rumble,Earl Claude Beaty,1979 Bibliography of Low Energy Electron and Photon Cross Section Data (through December 1974) Lee Joseph Kieffer,1976

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