

# ZEKE spectroscopy

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- ❑ The best resolution for this method is far superior to conventional PES (world record  $\approx 0.01$  meV versus typical 10 meV for conventional PES)
- ❑ Thus resolution of rotational structure, or of congested vibrational structure in larger polyatomic molecules, is possible.
- ❑ Gives rotational constants of cations hence structural information e.g.,  $\text{CH}_4^+$ ,  $\text{O}_3^+$ ,  $\text{CH}_2^+$ ,  $\text{C}_6\text{H}_6^+$ ,  $\text{NH}_4^+$  (direct spectroscopy on ions difficult)
- ❑ In practise can only be applied in gas phase (unlike conventional PES- solids, liquids and surfaces).

# Zeke Spectroscopy

**Katrin Zwirgmaier**



## **Zeke Spectroscopy:**

**ZEKE Spectroscopy** Edward William Schlag,1998-06-04 This 1998 book was the first to describe ZEKE ZERo Kinetic Energy spectroscopy a chemistry technique of increasing importance

**Photoionization and Photodetachment**  
Cheuk-Yiu Ng,2000 Owing to the advances of vacuum ultraviolet and ultrafast lasers and third generation synchrotron sources the research on photoionization photoelectrons and photodetachment has gained much vitality in recent years These new light sources together with ingenious experimental techniques such as the coincidence imaging molecular beam pulsed field ionization photoelectron mass analyzed threshold ion and pulsed field ion pair schemes have allowed spectroscopic dynamic and energetic studies of gaseous species to a new level of detail and accuracy Profitable applications of these methods to liquids are emerging This invaluable two volume review consists of twenty two chapters focusing on recent developments in photoionization and photodetachment studies of atoms molecules transient species clusters and liquids

**Handbook of Nanophysics** Klaus D. Sattler,2010-09-17 The field of nanoscience was pioneered in the 1980s with the groundbreaking research on clusters which later led to the discovery of fullerenes Handbook of Nanophysics Clusters and Fullerenes focuses on the fundamental physics of these nanoscale materials and structures Each peer reviewed chapter contains a broad based introduction and enhances

Highly Excited Atoms J. P. Connerade,1998-05-07 An introduction to the physics of highly excited easily perturbed or interacting atoms Covers Rydberg states quantum defect theory atomic f values centrifugal barrier effects autoionisation inner shell and double excitation spectra K matrix theory atoms in high laser fields statistical methods quantum chaos and atomic effects in solids

*Photoionization And Photodetachment (In 2 Parts)*  
Cheuk-yiu Ng,2000-06-30 Owing to the advances of vacuum ultraviolet and ultrafast lasers and third generation synchrotron sources the research on photoionization photoelectrons and photodetachment has gained much vitality in recent years These new light sources together with ingenious experimental techniques such as the coincidence imaging molecular beam pulsed field ionization photoelectron mass analyzed threshold ion and pulsed field ion pair schemes have allowed spectroscopic dynamic and energetic studies of gaseous species to a new level of detail and accuracy Profitable applications of these methods to liquids are emerging This invaluable two volume review consists of twenty two chapters focusing on recent developments in photoionization and photodetachment studies of atoms molecules transient species clusters and liquids

**Reviews of Reactive Intermediate Chemistry** Matthew S. Platz,Robert A. Moss,Maitland Jones, Jr.,2007-04-13 The chemistry of reactive intermediates is central to a modern mechanistic and quantitative understanding of organic chemistry Moreover it underlies a significant portion of modern synthetic chemistry and is integral to a molecular view of biological chemistry Reviews in Reactive Intermediate Chemistry presents an up to date authoritative guide to this fundamental topic Although it follows Reactive Intermediate Chemistry by the same authors it serves as a free standing resource for the entire chemical and biochemical community The book includes Relevant practical applications Coverage of such topics as mass

spectrometry methods reactive intermediates in interstellar medium quantum mechanical tunnelling solvent effects reactive intermediates in biochemical processes and excited state surfaces Discussions of emerging areas particularly those involving dynamics and theories Concluding sections identifying key directions for future research are provided at the end of each chapter

**Advances in Chemical Physics** Ilya Prigogine, Stuart A. Rice, 2009-09-09 The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics

*The Encyclopedia of Mass Spectrometry* Michael L. Gross, P.B. Armentrout, R. M. Caprioli, 2003-07-25 This multi volume work provides comprehensive coverage of the full range of topics and techniques in mass spectrometry Techniques methods and applications are described in detail including limitations current problems and areas in which the method does not succeed well

**Femtosecond Chemistry** Jörn Manz, Ludger Wöste, 1995-01-18 Femtosecond chemistry is central to our understanding of chemical reactivity with applications in many fields of chemistry and related sciences This professional text provides a fully referenced introduction to this exploding new field Leading authors among them Nobel Laureate Lord George Porter and Ahmed Zewail introduce the reader in a comprehensive manner to general concepts experimental techniques theoretical approaches Starting with a historical overview this up to date and didactically well organized compendium provides many textbook type examples of exciting systems from simple molecules and clusters to liquids surfaces solids and biomolecules This book is a valuable tool for researchers in molecular physics theoretical chemistry physical chemistry quantum optics cluster and surface science and biophysical chemistry But also newcomers and graduate students who want to know more about femtosecond chemistry will benefit from this volume

**High Resolution Laser Photoionization and Photoelectron Studies** Ivan Powis, Tomas Baer, Cheuk-Yiu Ng, 1995-08-29 Recent advances in both experimental techniques and theoretical methodologies have meant that increasingly sophisticated studies concerning the formation structures energetics and reaction dynamics of state or energy selected molecular ions can now be performed In order to better serve the ion chemistry and physics community each volume of this series will be dedicated to reviewing a specific topic emphasizing new experimental and theoretical developments in the study of ions The Wiley Series in Ion Chemistry and Physics will help stimulate new research directions and point to future opportunities in the field of ion chemistry and physics This fourth volume is devoted to developments associated with the high resolution study of molecular photoionization presented from both experimental and theoretical viewpoints This field has been revolutionized in recent years through the rapid development of zero kinetic energy ZEKE photoelectron spectroscopy which is featured prominently within this volume These advances have expanded the researcher's ability to probe not just structural features but also the detailed dynamics of a system resulting in the interest and

applicability of the technique being broadened to areas of chemical physics extending beyond the traditional study of photoionization per se Each of the twelve chapters making up this volume is written by leading researchers in their respective fields *Laser Techniques for State-selected and State-to-state Chemistry*, 1995 *Chemical Reactions and Their Control on the Femtosecond Time Scale* Pierre Gaspard, Irene Burghardt, 1997-08-04 Continuing the tradition of the Advances in Chemical Physics series Volume 101 *Chemical Reactions and Their Control on the Femtosecond Time Scale* details the extraordinary findings reported at the XXth Solvay Conference on Chemistry held at the Universit Libre de Bruxelles Belgium from November 28 to December 2 1995 This new volume discusses the remarkable opportunities afforded by the femtosecond laser focusing on the host of phenomena this laser has made it possible to observe Examining molecules on the intrinsic time scale of their vibrations as well as their dissociative motions and electronic excitations represents only part of a broadened scientific window made possible by the femtosecond laser The assembled studies with follow up discussions reflect the many specialties and perspectives of the Conference s 65 participants as well as their optimism concerning the breadth of scientific discovery now open to them The studies shed light on the laser s enhanced technical reach in the area of coherent control of chemical reactions as well as of more general quantum systems The theoretical fundamentals of femto chemistry the unique behavior of the femtosecond laser and a view toward future technological applications were also discussed Femtochemistry chemical reaction dynamics and their control Coherent control with femtosecond laser pulses Femtosecond chemical dynamics in condensed phases Control of quantum many body dynamics Experimental observation of laser control Solvent dynamics and RRKM theory of clusters High resolution spectroscopy and intramolecular dynamics Molecular Rydberg states and ZEKE spectroscopy Transition state spectroscopy and photodissociation Quantum and semiclassical theories of chemical reaction rates A fascinating and informative status report on the cutting edge chemical research made possible by the femtosecond laser *Chemical Reactions and Their Control on the Femtosecond Time Scale* is an indispensable volume for professionals and students alike The femtosecond laser and chemistry s extraordinary new frontier of molecular motions observed on the scale of a quadrillionth of a second Research chemists have only tapped the surface of the spectacular reach and precision of the femtosecond laser a technology that has allowed them to observe the dynamics of molecules on the intrinsic time scale of their vibrations dissociative motions and electronic excitations Volume 101 in the Advances in Chemical Physics series *Chemical Reactions and Their Control on the Femtosecond Time Scale* details their extraordinary findings presented at the XXth Solvay Conference on Chemistry in Brussels The studies reflect the work in part of the Conference s 65 participants including many prominent contributors Together they shed light on the laser s enhanced technical range in the area of coherent control of chemical reactions as well as of more general quantum systems The theoretical fundamentals of femtochemistry the unique behavior of the femtosecond laser and a view toward future technological applications were also discussed An exceptionally up to date examination of the

chemical analyses made possible by the femtosecond laser Chemical Reactions and Their Control on the Femtosecond Time Scale is an important reference for professionals and students interested in enhancing their research capabilities with this remarkable tool From 1993 to 1996 she worked with Dr P Gaspard at the Universit Libre de Bruxelles Belgium on the application of new semiclassical techniques to elementary chemical reaction processes *Annual Reports on the Progress of Chemistry* ,2005 Canadian Journal of Physics ,2009 Canadian Journal of Chemistry ,2009 **Mass Spectrometry Bulletin** ,1999 *Controlling Molecular Rydberg States* Elena Murgu,2001 Large Ions Tomas Baer,Cheuk-Yiu Ng,Ivan Powis,1996 Recent advances in both experimental techniques and theoretical methodologies have meant that increasingly sophisticated studies concerning the formation structures energetics and reaction dynamics of state or energy selected molecular ions can now be performed In order to better serve the ion chemistry and physics community each volume of this series is dedicated to reviewing a specific topic emphasizing new experimental and theoretical developments in the study of ions The Wiley Series in Ion Chemistry and Physics will help stimulate new research directions and point to future opportunities in the field of ion chemistry and physics This volume the sixth in the series concentrates on the area of large ions The production detection and analysis of large ions are areas which have taken on great importance in recent years in particular in the biomedical and biochemical fields The understanding of large ions presents unique and formidable challenges which are very different from those associated with the study of small ions This volume focuses on some of the fundamental chemistry and physics associated with the behavior of large ions with the contributors addressing the issues in a quantitative fashion in order to elucidate clearly some of the key recent advances which have taken place As such Large Ions Their Vaporization Detection and Structural Analysis provides an excellent snapshot of current research in this fascinating and important area The six chapters are written by some of the leading experts in the field and together they will be of great interest to experts and newcomers both of whom will benefit from the in depth discussion of the latest methods and results

The Structure, Energetics and Dynamics of Organic Ions Tomas Baer,Cheuk-Yiu Ng,Ivan Powis,1996-09-10 Recent advances in both experimental techniques and theoretical methodologies have meant that increasingly sophisticated studies concerning the formation structures energetics and reaction dynamics of state or energy selected molecular ions can now be performed In order to better serve the ion chemistry and physics community each volume of this series is dedicated to reviewing a specific topic emphasizing new experimental and theoretical developments in the study of ions The Wiley Series in Ion Chemistry and Physics will help stimulate new research directions and point to future opportunities in the field of ion chemistry and physics This volume the fifth in the series concentrates on the important area of organic ions Our understanding of these ions has been significantly improved over the last decade due to both theoretical and experimental advances and it is now routinely possible to calculate organic ion structures by ab initio molecular orbital methods with very high precision At the same time the experimental tools used to study organic ions have become much more refined This

volume provides a timely overview of some of the key approaches which are currently producing such important results in the study of negative ions and contains seven chapters written by acknowledged experts in the field It will be of great interest to both experts and newcomers both of whom will benefit from the in depth discussion of the latest methods and results Physics Briefs ,1994

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