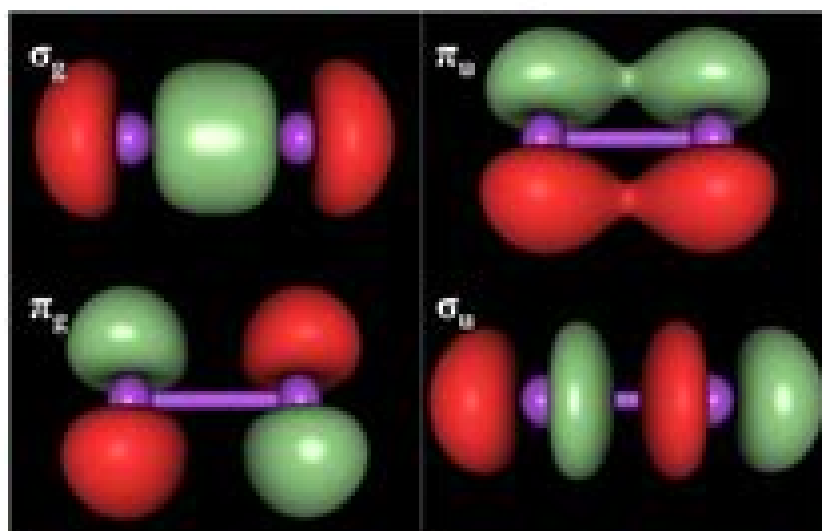


Molecules in Strong Laser Fields

- To what extent do inner-orbitals play a role in the strong-field interaction?
- Can we learn anything about the structure of molecular orbitals with strong laser fields?



- *Clearly, under certain circumstances inner-orbital ionization is important but, first, we need to understand which orbitals are involved.*

Molecules In Laser Fields

Jie Liu



Molecules In Laser Fields:

Molecules in Laser Fields André D. Bandrauk, 1993-12-14 This text presents the major advances in both intense laser fields phenomena and laser control of photochemical reactions highlighting experimental and theoretical research on the interaction of simple molecules with intense laser fields The book introduces new concepts such as above threshold ionization ATI above threshold dissociation ATD laser induced avoided crossings and coherent control *Coherence Phenomena in Atoms and Molecules in Laser Fields* Andre D Bandrauk, Stephan C. Wallace, 2012-12-06 This volume contains the lectures and communications presented at the NATO Advanced Research Workshop NATO ARW 900857 which was held May 5 10 1991 at McMaster University Hamilton Ontario Canada A scientific committee made up of P P Lambropoulos USC Crete P 8 Corkum NRC Ottawa and H B vL van den Heuvel FOM Amsterdam guided the organizers A D Bandrauk Sherbrooke and S C Wallace Toronto in preparing a programme which would cover the latest advances in the field of atom and molecule laser interactions Since the last meeting held in July 1987 on Atomic and Molecular Processes with Short Intense Laser Pulses NATO ASI vol 1718 Plenum Press 1988 considerable progress has been made in understanding high intensity effects on atoms and the concomitant coherence effects After four years the emphasis is now shifting more to molecules The present volume represents therefore this trend with four sections covering the main interests of research endeavours in this area i Atoms in Intense Laser Fields ii Molecules in Intense Laser Fields iii Atomic Coherences iv Molecular Coherences The experience developed over the years in multiphoton atomic processes has been very useful and is the main source of our understanding of similar processes in molecules Thus ATI above threshold ionization has been found to occur in molecules as well as a new phenomenon ATD above threshold dissociation Laser induced avoided crossings of molecular electronic surfaces is also now entering the current language of high intensity molecular processes

Theoretical Femtosecond Physics Frank Grossmann, 2008-07-24 This volume offers theoretical investigations of atoms and molecules interacting with pulsed or continuous wave lasers Theoretical background is included and the text incorporates several exercises Additional calculations are performed in the appendices *Molecules and Clusters in Intense Laser Fields* Jan Posthumus, 2001-06-28 This book provides a thorough introduction to the physics of molecules and clusters in intense laser fields It presents both theoretical and experimental aspects of the subject and covers new research in the area of clusters in intense laser fields The book discusses femto second pulse production and diagnostics and covers diatomic and polyatomic molecules as well as coherent control This book will be of interest to graduate students and researchers in atomic molecular and optical physics It will also be suitable as a reference text for advanced physics courses **Advances Of Atoms And Molecules In Strong Laser Fields** Yunquan Liu, 2015-09-29 This volume presents the latest advancements and future perspectives of atomic molecular and optical AMO physics and its vital role in modern sciences and technologies The chapters are devoted to a wide range of quantum systems with an emphasis on the understanding of ionization high

harmonic generation molecular orbital imaging and coherent control phenomena originating from light matter interactions The book overviews current research landscape and highlight major scientific trends in AMO physics interfacing with interdisciplinary sciences It may be particularly interesting for young researchers working on establishing their scientific interests and goals

Atoms and Molecules in Laser and External Fields Man Mohan, 2008 The recent evolution of lasers and other external field e.g. Synchrotron radiation strong electric and magnetic fields sources is opening up new frontiers of science which cover explorations in broad areas ranging from atomic molecular and optical physics AMOP to nuclear fusion and high energy particle physics even further to astrophysics and cosmology Atomic and molecular dynamics is being explored at the femto and near atto second time scale Ultra intense laser and other external fields attracting vigorous attention and interest from the view point of their control The topics covered in the book are Applications of ultra intense ultra short pulse lasers Atoms molecules and clusters in strong laser and other external fields high field chemistry high harmonic generation HHG X ray generation by laser matter interactions and their applications collisions in laser fields relativistic particle generation and acceleration by super strong laser plasma interactions etc

Molecules in Electromagnetic Fields Roman V. Krems, 2018-05-21 A tutorial for calculating the response of molecules to electric and magnetic fields with examples from research in ultracold physics controlled chemistry and molecular collisions in fields Molecules in Electromagnetic Fields is intended to serve as a tutorial for students beginning research theoretical or experimental in an area related to molecular physics The author a noted expert in the field offers a systematic discussion of the effects of static and dynamic electric and magnetic fields on the rotational fine and hyperfine structure of molecules The book illustrates how the concepts developed in ultracold physics research have led to what may be the beginning of controlled chemistry in the fully quantum regime Offering a glimpse of the current state of the art research this book suggests future research avenues for ultracold chemistry The text describes theories needed to understand recent exciting developments in the research on trapping molecules guiding molecular beams laser control of molecular rotations and external field control of microscopic intermolecular interactions In addition the author presents the description of scattering theory for molecules in electromagnetic fields and offers practical advice for students working on various aspects of molecular interactions This important text Offers information on the effects of electromagnetic fields on the structure of molecular energy levels Includes thorough descriptions of the most useful theories for ultracold molecule researchers Presents a wealth of illustrative examples from recent experimental and theoretical work Contains helpful exercises that help to reinforce concepts presented throughout text Written for senior undergraduate and graduate students professors researchers physicists physical chemists and chemical physicists Molecules in Electromagnetic Fields is an interdisciplinary text describing theories and examples from the core of contemporary molecular physics

Atoms, Solids, and Plasmas in Super-Intense Laser Fields Dimitri Batani, 2001-09-30 Proceedings of the 30th Course of the International School of

Quantum Electronics on Atoms Solids and Plasmas in Super Intense Laser Fields held 8-14 July in Erice Sicily **Electronic and nuclear quantum dynamics of molecules in intense laser fields** Yuichi Fujimura, Andre Bandrauk, Leticia González, 2023-04-28 Classical Trajectory Perspective of Atomic Ionization in Strong Laser Fields Jie Liu, 2013-09-30

The ionization of atoms and molecules in strong laser fields is an active field in modern physics and has versatile applications in such as attosecond physics X-ray generation inertial confined fusion ICF medical science and so on. Classical Trajectory Perspective of Atomic Ionization in Strong Laser Fields covers the basic concepts in this field and discusses many interesting topics using the semiclassical model of classical trajectory ensemble simulation which is one of the most successful ionization models and has the advantages of a clear picture feasible computing and accounting for many exquisite experiments quantitatively. The book also presents many applications of the model in such topics as the single ionization double ionization neutral atom acceleration and other timely issues in strong field physics and delivers useful messages to readers with presenting the classical trajectory perspective on the strong field atomic ionization. The book is intended for graduate students and researchers in the field of laser physics atom molecule physics and theoretical physics. Dr Jie Liu is a professor of Institute of Applied Physics and Computational Mathematics China and Peking University. *Atoms and Molecules in Strong Laser Fields* René Marcel Leopold Wagner, 2022 **Laser Control of Atoms and Molecules** V. S.

Letokhov, 2007-02-15 This text treats laser light as a universal tool to control matter at the atomic and molecular level one of the most exciting applications of lasers. Lasers can heat matter cool atoms to ultra low temperatures where they show quantum collective behaviour and can act selectively on specific atoms and molecules for their detection and separation.

High-Resolution Experiments on Strong-Field Ionization of Atoms and Molecules Lutz Fechner, 2016-04-26 In this thesis the ionization of atoms and small molecules in strong laser fields is experimentally studied using a reaction microscope. The population of autoionizing doubly excited states in the laser fields is proven and a possible connection to the well known dielectronic recombination processes is discussed. The fundamental process of tunnel ionization in strong laser fields is subject of investigation in a pump-probe experiment with ultrashort laser pulses. A coherent superposition of electronic states in singly charged argon ions is created within the first and subsequently tunnel ionized with the second pulse. This gives access to state selective information about the tunneling process and allows to test common models. Moreover the ionization of krypton and argon at different wavelengths is studied from the multiphoton to the tunneling regime. The wavelength dependent investigations are furthermore extended to molecular hydrogen. In addition to ionization this system might undergo different dissociative processes. Channel selective electron momentum distributions are presented and compared to each other. **Resolving Strong Field Dynamics in Cation States of CO₂ via Optimised Molecular Alignment** Malte Oppermann, 2014-04-01 This thesis presents an experimental study of the ultrafast molecular dynamics of CO₂ that are induced by a strong near infrared femtosecond laser pulse. In particular typical strong field phenomena such as

tunneling ionisation nonsequential double ionisation and photo induced dissociation are investigated and controlled by employing an experimental technique called impulsive molecular alignment Here a first laser pulse fixes the molecule in space such that the molecular dynamics can be studied as a function of the molecular geometry with a second laser pulse The experiments are placed within the context of the study and control of ultrafast molecular dynamics where sub femtosecond 10 15 seconds resolution in ever larger molecular systems represents the current frontier of research The thesis presents the required background in strong field and molecular physics femtosecond laser architecture and experimental techniques in a clear and accessible language that does not require any previous knowledge in these fields Strong Field Laser Physics

Thomas Brabec, 2008-09-10 Due to the rapid progress in laser technology a wealth of novel fundamental and applied applications of lasers in atomic and plasma physics have become possible This book focuses on the interaction of high intensity lasers with matter It reviews the state of the art of high power laser sources intensity laser atom and laser plasma interactions laser matter interaction at relativistic intensities and QED with intense lasers *Attosecond and Strong-Field Physics*

C. D. Lin, Anh-Thu Le, Cheng Jin, Hui Wei, 2018-05-10 Probing and controlling electrons and nuclei in matter at the attosecond timescale became possible with the generation of attosecond pulses by few cycle intense lasers and has revolutionized our understanding of atomic structure and molecular processes This book provides an intuitive approach to this emerging field utilizing simplified models to develop a clear understanding of how matter interacts with attosecond pulses of light An introductory chapter outlines the structure of atoms and molecules and the properties of a focused laser beam Detailed discussion of the fundamental theory of attosecond and strong field physics follows including the molecular tunnelling ionization model MO ADK theory the quantitative rescattering QRS model and the laser induced electronic diffraction LIED theory for probing the change of atomic configurations in a molecule Highlighting the cutting edge developments in attosecond and strong field physics and identifying future opportunities and challenges this self contained text is invaluable for students and researchers in the field **Ionization and Dissociation Dynamics of Molecules in Strong Laser Fields**

Wei Lai, 2016 The fast advancement of ultrashort pulsed high intensity laser technology allows for generating an electric field equivalent to the Coulomb field inside an atom or a molecule e g $E_c = 5.14 \times 10^9 \text{ V cm}^{-1}$ at the $1s$ orbit radius $a_0 = 0.0529 \text{ nm}$ of the hydrogen atom which corresponds to an intensity of $3.54 \times 10^{16} \text{ W cm}^{-2}$ Atoms and molecules exposed in such a field will easily be ionized as the external field is strong enough to remove the electrons from the core This is usually referred to strong field Strong fields provide a new tool for studying the interaction of atoms and molecules with light in the nonlinear nonperturbative regime During the past three decades significant progress has been made in the strong field science Today most phenomena involving atoms in strong fields have been relatively well understood by the single active electron SAE approximation However the interpretation of these responses in molecules has encountered great difficulties Not like atoms that only undergo excitation and ionization various dissociation channels accompanying excitation

and ionization can occur in molecules during the laser pulse interaction which imparts further complexity to the study of molecules in strong fields Previous studies have shown that molecules can behave significantly different from rare gas atoms in phenomena as simple as single and double ionization Molecular dissociation following ionization also presents challenges in strong fields compared to what we have learned in the weak field regime This dissertation focuses on experimental studies on ionization and dissociation of some commonly seen small molecules in strong laser fields Previous work of molecules in strong fields will be briefly reviewed particularly on some open questions about multiple dissociation channels nonsequential double ionization enhanced ionization and molecular alignment The identification of various molecular dissociation channels by recent experimental technical upgrades will be shown The study of enhanced ionization in small molecules by time resolved pump probe experiments and varying pulse duration experiments will be discussed followed by an investigation of molecular alignment effect in sequential and nonsequential dynamics At last selective charge separation in charge asymmetric dissociation of heteronuclear diatomic molecules will be shown and conclusion and future work will be discussed Pages vii viii Progress in Ultrafast Intense Laser Science I See Leang Chin, Pierre Agostini, Gaetano Ferrante, 2006-10-03 This is the first of a series of books on Ultrafast Intense Laser Science a newly emerging interdisciplinary research field that spans atomic and molecular physics molecular science and optical science It covers intense VUV laser cluster interaction resonance and chaos assisted tunneling and the effects of the carrier envelope phase on high order harmonic generation

Cold Molecules Roman Krems, Bretislav Friedrich, William C Stwalley, 2009-06-25 The First Book on Ultracold Molecules Cold molecules offer intriguing properties on which new operational principles can be based e g quantum computing or that may allow researchers to study a qualitatively new behavior of matter e g Bose Einstein condensates structured by the electric dipole interaction This interdisciplinary book discusses *Frontiers in Atomic, Molecular and Optical Physics, Vol. 3*, 2003

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