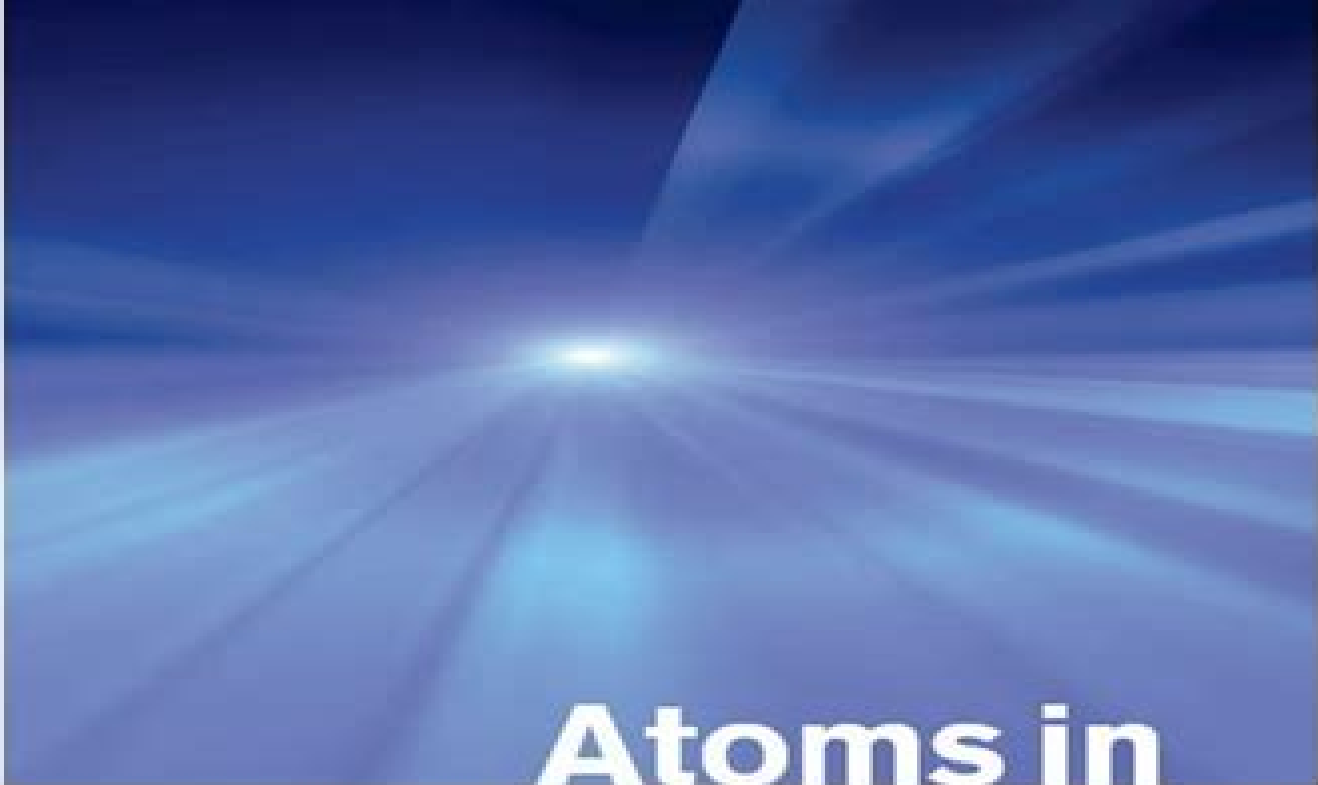




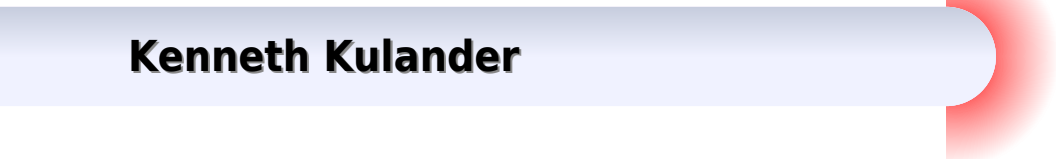
Atoms in Intense Laser Fields

**C. J. Joachain
N. J. Kylstra
R. M. Potvliege**

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Atoms In Intense Laser Fields

Kenneth Kulander



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Atoms in Intense Laser Fields C. J. Joachain, N. J. Kylstra, R. M. Potvliege, 2011-12-15 The development of lasers capable of producing high intensity pulses has opened a new area in the study of light matter interactions The corresponding laser fields are strong enough to compete with the Coulomb forces in controlling the dynamics of atomic systems and give rise to multiphoton processes This book presents a unified account of this rapidly developing field of physics The first part describes the fundamental phenomena occurring in intense laser atom interactions and gives the basic theoretical framework to analyze them The second part contains a detailed discussion of Floquet theory the numerical integration of the wave equations and approximation methods for the low and high frequency regimes In the third part the main multiphoton processes are discussed multiphoton ionization high harmonic and attosecond pulse generation and laser assisted electron atom collisions Aimed at graduate students in atomic molecular and optical physics the book will also interest researchers working on laser interactions with matter

Atoms in Intense Laser Fields C. J. Joachain, N. J. Kylstra, R. M. Potvliege, 2012 A unified account of the rapidly developing field of high intensity laser atom interactions suitable for both graduate students and researchers

Atoms in Intense Laser Fields Mihai Gavrila, 1992 For graduate students laser scientists atomic molecular and optical physicists topics include the effects of superintense laser fields on multiphoton ionization and harmonic generation novel effects with ultrashort subpicosecond laser pulses and Rydberg atoms in intense microwave fields

Atoms, Solids, and Plasmas in Super-Intense Laser Fields Dimitri Batani, Charles J. Joachain, S. Martellucci, Arthur N. Chester, 2012-12-06 The recent development of high power lasers delivering femtosecond pulses of 20 2 intensities up to 10 W cm has led to the discovery of new phenomena in laser interactions with matter At these enormous laser intensities atoms and molecules are exposed to extreme conditions and new phenomena occur such as the very rapid multi photon ionization of atomic systems the emission by these systems of very high order harmonics of the exciting laser light the Coulomb explosion of molecules and the acceleration of electrons close to the velocity of light These phenomena generate new behaviour of bulk matter in intense laser fields with great potential for wide ranging applications which include the study of ultra fast processes the development of high frequency lasers and the investigation of the properties of plasmas and condensed matter under extreme conditions of temperature and pressure In particular the concept of the fast ignitor approach to inertial confinement fusion ICF has been proposed which is based on the separation of the compression and the ignition phases in laser driven ICF The aim of this course on Atom Solids and Plasmas in Super Intense Laser fields was to bring together senior researchers and students in atomic and molecular physics laser physics condensed matter and plasma physics in order to review recent developments in high intensity laser matter interactions The course was held at the Ettore Majorana International Centre for Scientific Culture in Erice from July 8 to July 14 2000

Theory and Computation of Atoms in Intense Laser Fields Edward Stuart Smyth, 1999 **Theory of High-order Processes in Atoms in Intense**

Laser Fields Kenneth Kulander,1990 Super-Intense Laser—Atom Physics A. L'Huillier,Bernard Piraux,Kazimierz Rzażewski,2012-12-06 The rapid development of powerful pulsed lasers is at the origin of a considerable interest in studying the response of an atom a molecule or a solid to a strong electromagnetic field It is now possible to produce at the laboratory scale ultra short 13 pulses with a duration of 100 femtoseconds 10 second and a power of the order 12 of 1 terawatt 10 Watt Under these conditions very high peak intensities may be obtained and electric fields exceeding typical electron binding fields in atoms are generated The interaction of an atom or a molecule with such electromagnetic fields has a highly non linear character which leads to unexpected phenomena Amongst them above threshold ionization ATI i e the absorption of additional photons in excess of the minimal number necessary to overcome the ionization potential and its molecular counterpart above threshold dissociation ATD generation of very high harmonics of the driving field stabilization of one electron systems in strong fields These processes were the main topics of two international meetings which were held in 1989 and 1991 in the United States under the common name SILAP Super Intense Laser Atom Physics Interaction of Atoms with Intense Laser Fields and Ultrashort Pulses Carla Figueira de Morisson Faria,1999 **Progress in Ultrafast Intense Laser Science XVI** Kaoru Yamanouchi,Katsumi Midorikawa,Luis Roso,2021-07-30 This book covers a broad range of topics from the interdisciplinary research field of ultrafast intense laser science focusing on atoms and molecules interacting with intense laser fields laser induced filamentation high order harmonics generation and high power lasers and their applications This sixteenth volume features contributions from world renowned researchers introducing the latest reports on probing molecular chirality with intense laser fields and the most recent developments in the Shanghai Superintense Ultrafast Laser Facility project The PUILS series delivers up to date reviews of progress in this emerging interdisciplinary research field spanning atomic and molecular physics molecular science and optical science which has been stimulated by the recent developments in ultrafast laser technologies Each volume compiles peer reviewed articles authored by researchers at the forefront of each of their own subfields of ultrafast intense laser science Every chapter opens with an overview of the topics to be discussed so that researchers unfamiliar to the subfield especially graduate students can grasp the importance and attractions of the research topic at hand these are followed by reports of cutting edge discoveries

Electron Dynamics of One- and Two-electron Atoms in Intense Laser Fields G. S. J. Armstrong,2012 *Atoms and Di-atoms in Intense Laser Fields* Muhammad Raza Saeed,1991 **Theory and Computation of Few-electron Atoms in Intense Laser Fields** L. R. Moore,2001 *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

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

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

Relativistic Theory of Atoms and Molecules III Pekka Pyykkö, 2013-06-29 Relativistic effects are of major importance for understanding the properties of heavier atoms and molecules Volumes I III of Relativistic Theory of Atoms and Molecules constitute the only available bibliography on related calculations In Volume III 3792 new references covering 1993 1999 are added to the database The material is characterized by an analysis of the respective papers The volume gives the user a comprehensive bibliography on relativistic atomic and molecular calculations including studies on the Dirac equation and related solid state work

Springer Handbook of Atomic, Molecular, and Optical Physics Gordon W. F. Drake, 2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum

information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook

Super-Intense Laser-Atom Physics IV H.G. Muller, M.V. Fedorov, 1996-05-31 Atoms in strong radiation fields are interesting objects for study and the research field that concerns itself with this study is a comparatively young one For a long period after the discovery of the photoelectric effect it was not possible to generate electromagnetic fields that did more than perturb the atom only slightly and first order perturbation theory could perfectly explain what was going on at those low intensities The development of the pulsed laser has changed this state of affairs in a rather dramatic way and fields can be applied that really have a large or even dominant influence on atomic structure In the latter case we speak of super intense fields Since the interaction between atoms and electromagnetic waves is characterized by many parameters other than the light intensity such as frequency ionization potential orbit time etc it is actually quite difficult to define what is exactly meant by the term super intense Obviously the term does not have an absolute meaning and intensity should always be viewed in relation to other properties of the system An atom in a radiation field can thus best be described in terms of various ratios of the quantities involved The nature of the system sometimes drastically changes if the value of one of these parameters exceeds a certain critical value and the new regime could be called super intense with respect to that parameter

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

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