

ATOMIC, OPTICAL,
AND PLASMA PHYSICS

J. Ullrich
V. P. Shevelko (Eds.)

Many-Particle Quantum Dynamics in Atomic and Molecular Fragmentation



Springer

Manyparticle Quantum Dynamics In Atomic And Molecular Fragmentation

Arturo Cuomo



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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

Relativistic Quantum Theory of Atoms and Molecules Ian P Grant, 2007-04-15 This book is intended for physicists and chemists who need to understand the theory of atomic and molecular structure and processes and who wish to apply the theory to practical problems As far as practicable the book provides a self contained account of the theory of relativistic atomic and molecular structure based on the accepted formalism of bound state Quantum Electrodynamics The author was elected a Fellow of the Royal Society of London in 1992

Many-Body Schrödinger Dynamics of Bose-Einstein Condensates Kaspar Sakmann, 2011-08-31 At extremely low temperatures clouds of bosonic atoms form what is known as a Bose Einstein condensate Recently it has become clear that many different types of condensates so called fragmented condensates exist In order to tell whether fragmentation occurs or not it is necessary to solve the full many body Schrödinger equation a task that remained elusive for experimentally relevant conditions for many years In this thesis the first numerically exact solutions of the time dependent many body Schrödinger equation for a bosonic Josephson junction are provided and compared to the approximate Gross Pitaevskii and Bose Hubbard theories It is thereby shown that the dynamics of Bose Einstein condensates is far more intricate than one would anticipate based on these approximations A special conceptual innovation in this thesis are optimal lattice models It is shown how all quantum lattice models of condensed matter physics that are based on Wannier functions e.g the Bose Fermi Hubbard model can be optimized variationally This leads to exciting new physics

Reference Data on Atomic Physics and Atomic Processes Boris M. Smirnov, 2008-09-03 Each scientist works with certain information and collects it in the course of professional activity In the same manner the author collected data for atomic physics and atomic processes This information was checked in the course of the author's professional activity and was published in the form of appendices to the corresponding books on atomic

and plasma physics Now it has been decided to publish these data separately This book contains atomic data and useful information about atomic particles and atomic systems including molecules nanoclusters metals and condensed systems of elements It also gives information about atomic processes and transport processes in gases and plasmas In addition the book deals with general concepts and simple models for these objects and processes We give units and conversion factors for them as well as conversion factors for spread formulas of general physics and the physics of atoms clusters and ionized gases since such formulas are used in professional practice by each scientist of this area

Relativistic Transitions in the Hydrogenic Atoms Roger Boudet, 2008-12-08 When one approaches the study of the quantal relativistic theory of the electron one may be surprised by the gap which lies between the frame of the experiments i.e. the real geometry of the space and time and the abstraction of the complex matrices and spinors formalism employed in the presentation of the theory This book uses a theory of the electron introduced by David Hestenes in which the mathematical language is the same as the one of the geometry of the space and time Such a language not only allows one to find again the well known results concerning the one electron atoms theory but furthermore leads easily to the resolution of problems considered for a long time without solution

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

Cathodic Arcs André Anders, 2009-07-30 Cathodic arcs are among the longest studied yet least understood objects in science Plasma generating tiny spots appear on the cathode they are highly dynamic and hard to control With an approach emphasizing the fractal character of cathode spots strongly fluctuating plasma properties are described such as the presence of multiply charged ions that move with supersonic velocity Richly illustrated the book also deals with practical issues such as arc source construction macroparticle removal and the synthesis of dense well adherent coatings The book spans a bridge from plasma physics to coatings technology based on energetic condensation appealing to scientists practitioners and graduate students alike

Turbulent Particle-Laden Gas Flows Aleksei Y. Varaksin, 2007-07-05 Results are given of experimental and theoretical studies of gas solid particles turbulent two phase flows Special emphasis is placed on studies of the behavior of particles suspended in a turbulent gas flow and their feedback effect on the characteristics of flow of the carrier phase The characteristics of heterogeneous flows in channels pipes are analyzed as well as those in the vicinity of the critical points of bodies subjected to flow and in the boundary layer developing on their surface Problems of physical simulation of turbulent gas flows which carry solid particles are treated in detail This monograph will be useful for researchers involved in investigations of gas dynamics and heat and mass transfer in multiphase flows as well as for university professors post graduate students and students

Charged Particle Traps Fouad G. Major, Viorica N. Gheorghe, Günther Werth, 2005-11-10 Over the last quarter of this century revolutionary advances have been made both in kind and in precision in the application

of particle traps to the study of the physics of charged particles leading to intensified interest in and wide proliferation of this topic. This book is intended as a timely addition to the literature providing a systematic unified treatment of the subject from the point of view of the application of these devices to fundamental atomic and particle physics.

The technique of using electromagnetic fields to confine and isolate atomic particles in vacuo rather than by material walls of a container was initially conceived by W. Pauli in the form of a 3D version of the original rf quadrupole mass filter for which he shared the 1989 Nobel Prize in physics. ¹ Whereas H. G. Dehmelt, who also shared the 1989 Nobel Prize, ² saw these devices including the Penning trap as a way of isolating electrons and ions for the purposes of high resolution spectroscopy. These two broad areas of application have developed more or less independently, each attaining a remarkable degree of sophistication and generating widespread interest and experimental activity.

Quantum Statistics of Nonideal Plasmas Dietrich Kremp, Manfred Schlanges, Wolf-Dietrich Kraeft, T. Bornath, 2005-02-11. This book deals with the statistical theory of strongly coupled Coulomb systems. After an elementary introduction to the physics of nonideal plasmas, a presentation of the method of nonequilibrium Green's functions is given. On this basis, the dielectric, thermodynamic, transport, and relaxation properties are discussed systematically. Especially, the behavior of bound states in the surrounding plasma, lowering of the ionization energy, the ionization kinetics, and the equation of state of dense partially ionized hydrogen are each carefully investigated. Furthermore, generalized kinetic equations are derived which are also valid for short time scales. They are applied to ultrafast processes and to plasmas in laser fields.

Ion-Atom Collisions Michael Schulz, 2019-10-21. The few-body problem (FBP), the essence of which is the Schrödinger equation, is not solvable for more than two interacting particles. Atomic collisions are ideally suited to study the FBP because the underlying force is essentially understood and because simple systems can be studied for which kinematically complete experiments are feasible. The book would cover various experimental and theoretical approaches in atomic collision research.

Introduction to the Physics of Highly Charged Ions Heinrich F. Beyer, Viatcheslav P. Shevelko, 2016-04-19. Emphasizing a physical understanding with many illustrations, *Introduction to the Physics of Highly Charged Ions* covers the major areas of x-ray radiation and elementary atomic processes occurring with highly charged ions in hot laboratory and astrophysical plasmas. Topics include light and ion sources, spectroscopy, atomic structure, magnetic and

Quantum Squeezing Peter D. Drummond, Zbigniew Ficek, 2013-03-14. The concept of squeezing is intimately related to the idea of vacuum fluctuations, once thought to place an absolute limit to the accuracy of measurement. However, vacuum fluctuations are not unchangeable. By recognizing that these quantum fluctuations always occur in two complementary observables, physicists have been able to make an intriguing trade-off. Reduced fluctuations in one variable can be realized at the expense of increased fluctuations in another, according to Heisenberg. This Heisenberg horse trade, originally predicted by theorists, was first accomplished experimentally by R. Slusher in 1985. Since then, the various techniques and applications of quantum squeezing have metamorphosed into a central tool in the wider field of quantum information. This book is a

summary of the main ideas methods and applications of quantum squeezing written by those responsible for some of the chief developments in the field The book is divided into three parts to recognize that there are three areas in this research These are the fundamental physics of quantum fluctuations the techniques of generating squeezed radiation and the potential applications Part I of the book giving the fundamentals is arranged as follows Chapter 1 introduces the basic ideas about what squeezing of quantum fluctuations is from the quantized free field perspective This chapter establishes the definitions and notations used throughout Chapter 2 explains how to quantize radiation in a dielectric which is the basic technique that is used to make squeezed radiation

Plasma Physics and Controlled Nuclear Fusion Kenro Miyamoto, 2005-10-20 *Plasma-Material Interaction in Controlled Fusion* Dirk Naujoks, 2006-08-25 This book deals with the specific contact between the fourth state of matter i.e. plasma and the first state of matter i.e. a solid wall in controlled fusion experiments A comprehensive analysis of the main processes of plasma surface interaction is given together with an assessment of the most critical questions within the context of general criteria and operation limits It also contains a survey on other important aspects in nuclear fusion

Atom Tunneling Phenomena in Physics, Chemistry and Biology Tetsuo Miyazaki, 2013-04-17 Atom tunneling phenomena are a new paradigm in the science of materials This book provides a wealth of interesting information about atom tunneling phenomena in physics chemistry and biology Topics include the theory of atom tunneling reactions conclusive evidence and controlling factors for such reactions in solid hydrogen tunneling dislocation motion coherent tunneling diffusion the production of interstellar molecules and semiconductors using tunneling reactions the effect of atom tunneling on molecular structure and crystalline structure the suppression of mutation and cancer by an atom tunneling reaction of vitamin C and atom tunneling reactions of vitamin E and of enzymes This book provides graduate students and nonspecialist readers with fascinating insights into the world of atom tunneling phenomena

Emergent Nonlinear Phenomena in Bose-Einstein Condensates Panayotis G. Kevrekidis, Dimitri J. Frantzeskakis, Ricardo Carretero-González, 2007-12-29 This book written by experts in the fields of atomic physics and nonlinear science covers the important developments in a special aspect of Bose-Einstein condensation namely nonlinear phenomena in condensates Topics covered include bright dark gap and multidimensional solitons vortices vortex lattices optical lattices multicomponent condensates mathematical methods rigorous results and the beyond the mean field approach

Laser Physics at Relativistic Intensities A.V. Borovsky, A.L. Galkin, O.B. Shiryayev, T. Auguste, 2013-04-17 One of the major accomplishments of laser technology that took place during the last 15 years is the possibility of generating coherent radiation that can be focused so that its intensity reaches the magnitude of 10^{18} W/cm² Even higher intensities result from nonlinear self-focusing of such radiation in matter The unique character of these magnitudes is illustrated by the fact that these intensities are substantially higher than those occurring inside the Sun A range of previously unexplored physical mechanisms come into play as laser pulses interact with matter under the conditions of an extreme concentration of laser

energy In particular free electrons of plasma formed by rapid nonlinear ionization of gases and solid targets during the pulse rise time are driven by a laser radiation electric field at velocities comparable to the speed of light and the corresponding relativistic increase in their masses entails a modification of the plasma's optical properties Laser radiation intensities at which the above effect occurs are called relativistic This book is intended to provide an introduction to the field of laser physics at relativistic intensities Extensive theoretical and experimental studies have been performed in this area in the last decade At present laser physics at relativistic intensities can be considered a new and rapidly evolving area of modern physics Important basic new phenomena and concepts of applications are associated with it among them relativistic and charge displacement self channeling wake field particle acceleration generation of free electron harmonics and X rays and fast ignition

Photonic, Electronic And Atomic Collisions - Proceedings Of The Xxiv International Conference

Roberto D Rivarola, Pablo D Fainstein, Marco Aurelio P Lima, Jorge E Miraglia, Eduardo Montenegro, Pierre

Agostini, 2006-11-29 This volume contains contributions covering a wide range of subjects in the area of photonic electronic and atomic collisions These include the collisions of heavy particles and electrons with atoms molecules and clusters the coherent control of reaction dynamics using lasers and electromagnetic fields with molecules clusters and liquids recent experimental progress in the synthesis of antihydrogen the interaction of solar winds with cometary atmospheres and the physical interpretation of reactions in biological systems a

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