

ATOMIC, OPTICAL,
AND PLASMA PHYSICS

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Many-Particle Quantum Dynamics in Atomic and Molecular Fragmentation



Springer

Manyparticle Quantum Dynamics In Atomic And Molecular Fragmentation

Roger Boudet



Manyparticle Quantum Dynamics In Atomic And Molecular Fragmentation:

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 physics¹ whereas H. G. Dehmelt who also shared the 1989 Nobel Prize² 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 ultra fast processes and to plasmas in laser fields.

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