



RELATIVISTIC ATOMIC COLLISIONS

Jörg Eichler
Walter E. Meyerhof



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Relativistic Atomic Collisions

H. B. Gilbody



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Relativistic Atomic Collisions Jörg Eichler, Walter Ernst Meyerhof, 1995 Introduction Part I Theoretical Methods Relativistic Kinematics Fields of Moving Charges Relativistic Electron Motion Ion Atom Collisions Part II Elementary Atomic Processes Excitation and Ionization Ionization Many Electrons Charge Exchange Radiative Electron Capture Electron Positron Pair Production Part III Experimental Methods Charge State Preparation Target Arrangements Cross Section Determination Appendix Bibliography Index **Relativistic Collisions of Structured Atomic Particles** Alexander Voitkiv, Joachim Ullrich, 2008-07-20 During the last two decades the explorations of different processes accompanying ion atom collisions at high impact energies have been a subject of much interest. This interest was generated not only by the advent of accelerators of relativistic heavy ions which enabled one to investigate these collisions in an experiment and possible applications of obtained results in other fields of physics but also by the variety of physical mechanisms underlying the atomic collisional phenomena at high impact energies. Often highly charged projectiles produced at accelerators of heavy ions are not fully stripped ions but carry one or more very tightly bound electrons. In collisions with atomic targets these electrons can be excited or lost and this may occur simultaneously with electronic transitions in the target. The present book concentrates on and may serve as an introduction to theoretical methods which are used to describe the projectile electron transitions occurring in high energy collisions between ions and neutral atoms. Special attention is given to relativistic impact energies and highly charged projectiles. Experimental results are used merely as illustrations and tests for theory. This book will be useful to graduate students and professional scientists who are interested in studying atomic collisions occurring at high impact energies. It assumes that the reader possesses the basic knowledge in classical electrodynamics and nonrelativistic and relativistic quantum mechanics. *Lectures on Ion-Atom Collisions* Jörg Eichler, 2005-09-23 Atomic collisions offer some unique opportunities to study atomic structure and reaction mechanisms in experiment and theory especially for projectiles of high atomic number provided by modern accelerators. The book is meant as an introduction into the field and provides some basic theoretical understanding of the atomic processes occurring when a projectile hits another atom. It also furnishes the tools for a mathematical description however without going deeper into the technical details which can be found in the literature given. With this aim the focus is on reactions in which only a single active electron participates. Collisional excitation, ionization and charge transfer are discussed for collision velocities ranging from slow to comparable to the speed of light. For the highest projectile velocities energy can be converted into mass so that electron positron pairs are created. In addition to the systematic treatment a theoretical section specializes on electron-electron correlations and three chapters are devoted to selected highlights bordering to surface science and to physics with antiprotons. Simple access to the theory of collisions between ions and atoms. Systematic treatment of basic features needed for an understanding. Mathematical details are omitted and referred to references. In order to bear out the essential ideas most clearly a single active electron is

assumed in most cases In selected examples theoretical results are confronted with experiment Discussion supported by a large number of illustrations Selected highlights in borderline fields are presented

R-Matrix Theory of Atomic Collisions Philip George Burke, 2011-03-28 Commencing with a self contained overview of atomic collision theory this monograph presents recent developments of R matrix theory and its applications to a wide range of atomic molecular and optical processes These developments include the electron and photon collisions with atoms ions and molecules which are required in the analysis of laboratory and astrophysical plasmas multiphoton processes required in the analysis of superintense laser interactions with atoms and molecules and positron collisions with atoms and molecules required in antimatter studies of scientific and technological importance Basic mathematical results and general and widely used R matrix computer programs are summarized in the appendices

Relativistic Theory of Atoms and Molecules II Pekka Pyykkö, 2012-12-06 Relativistic effects are of major importance for understanding the properties of heavier atoms and molecules This book is still the only comprehensive bibliography on related calculations The material is organized by subject into tables containing a concise characterization Together with Volume I Lecture Notes in Chemistry Vol 41 ISBN 3 540 17167 3 the literature until 1992 is now covered and 6577 references with titles are given in the two books The book will provide a convenient reference for theoretical chemists and atomic and molecular physicists interested in the properties of heavier elements Contents Introduction One particle problems Quantum electrodynamical effects Multielectron atoms methods Multielectron atoms results Symmetry Molecular calculations Solid state theory Relativistic effects and heavy element chemistry Corrections to Volume I Some comments on notations and terminology List of acronyms and symbols Bibliography

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

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

Electronic and Atomic Collisions Donald C. Lorents, Walter Ernst Meyerhof, James R. Peterson, 1986

Basic Atomic Interactions of Accelerated Heavy Ions in Matter Inga Tolstikhina, Makoto Imai, Nicolas Winckler, Viacheslav Shevelko, 2018-02-28 This book provides an overview of the recent experimental and theoretical results on interactions of heavy ions with gaseous solid and plasma targets from the perspective

of atomic physics The topics discussed comprise stopping power multiple electron loss and capture processes equilibrium and non equilibrium charge state fractions in penetration of fast ion beams through matter including relativistic domain It also addresses mean charge states and equilibrium target thickness in ion beam penetrations isotope effects in low energy electron capture lifetimes of heavy ion beams semi empirical formulae for effective cross sections The book is intended for researchers and graduate students working in atomic plasma and accelerator physics

Fundamental Processes in Energetic Atomic Collisions H.O. Lutz,J.S. Briggs,B. Kleinpoppen,2012-12-06 In recent years the impact of new experimental techniques e g nuclear physics methods availability of high intensity light sources as well as an increasing demand for atomic collision data in other fields of physics e g plasma physics astrophysics laser physics surface physics etc have stimulated a renewed strong interest in atomic collision research Due to the explosive development of the various fields scientists often even have difficulty in keeping up with their own area of research as a result the overlap between different fields tends to remain rather limited Instead of having access to the full knowledge accumulated in other fields one uses only the small fraction which at the moment seems to be of immediate importance to one's own area of interest Clearly many fruitful and stimulating ideas are lost in this way causing progress to be made much more slowly than it could be Atomic collision physics is no exception to this rule Although it is of basic interest to many other areas it is mostly regarded merely as a nonetheless important tool by which to gain additional information

Electronic and Atomic Collisions H. B. Gilbody,1988
Theory of Relativistic Ion-atomic Collisions Jörg Eichler,1990 **Electronic and Atomic Collisions** ,1987 The Observation of Atomic Collisions in Crystalline Solids R. S. Nelson,2013-10-22 The Observation of Atomic Collisions in Crystalline Solids presents a critical account of the more important experiments which have provided the basis for a better understanding of atomic collision phenomena in crystalline solids Collisions have been divided into two artificial regimes primary collisions which deal with the interaction of the incident particles with the solid and secondary collisions which deal with those events which occur as a result of lattice atoms recoiling from primary encounters Although the book is intended principally for the experimentalist some simple theoretical models have been introduced It is hoped that the book will provide a useful introduction to the subject of atomic collisions in solids for the post graduate research student as well as providing a collection of the most important experimental data for established scientists actively engaged in the field It is also intended to provide a background for the technologist engaged in such fields as the ion implantation doping of semiconductors

Atomic Physics with Heavy Ions Heinrich F. Beyer,Viatcheslav P. Shevelko,2012-12-06 This book is devoted to one of the most active domains of atomic physics atomic physics of heavy positive ions During the last 30 years this terrain has attracted enormous attention from both experimentalists and theoreticians On the one hand this interest is stimulated by rapid progress in the development of laboratory ion sources storage rings ion traps and methods for ion cooling In many laboratories a considerable number of complex and accurate experiments have been initiated challenging new frontiers

Highly charged ions are used for investigations related to fundamental research and to more applied fields such as controlled nuclear fusion driven by heavy ions and its diagnostics ion surface interaction physics of hollow atoms x ray lasers x ray spectroscopy spectrometry of ions in storage rings and ion traps biology and medical therapy On the other hand the new technologies have stimulated elaborate theoretical investigations especially in developing QED theory relativistic many body techniques plasma kinetic modeling based on the Coulomb interactions of highly charged ions with photons and various atomic particles electrons atoms molecules and ions The idea of assembling this book matured while the editors were writing another book X Ray Radiation of Highly Charged Ions by H F Beyer H J Kluge and V P Shevelko Springer Berlin Heidelberg 1997 covering a broad range of x ray and other radiative phenomena central to atomic physics with heavy ions

Atomic Processes in Basic and Applied Physics Viacheslav Shevelko, Hiro Tawara, 2012-05-31 The book is a comprehensive edition which considers the interactions of atoms ions and molecules with charged particles photons and laser fields and reflects the present understanding of atomic processes such as electron capture target and projectile ionisation photoabsorption and others occurring in most of laboratory and astrophysical plasma sources including many photon and many electron processes The material consists of selected papers written by leading scientists in various fields

Frontier Topics in Nuclear Physics Werner Scheid, Aurel Sandulescu, 2012-12-06 This volume contains the lectures and contributions presented at the NATO Advanced Study Institute ASI on Frontier Topics in Nuclear Physics held at Predeal in Romania from 24 August to 4 September 1993 The ASI stands in a row of 23 Predeal Summer Schools organized by the Institute of Atomic Physics Bucharest in Predeal or Poiana Brasov during the last 25 years The main topics of the ASI were cluster radioactivity fission and fusion the production of very heavy elements nuclear structure described with microscopic and collective models weak interaction and double beta decay nuclear astrophysics and heavy ion reactions from low to ultrarelativistic energies The content of this book is ordered according to these topics The ASI started with a lecture by Professor Greiner on the Present and future of nuclear physics showing the most important new directions of research and the interdisciplinary relations of nuclear physics with other fields of physics This lecture is printed in the first chapter of the book

Coherence in Atomic Collision Physics H.J. Beyer, Karl Blum, R. Hippler, 2013-11-21 During the last two decades the experimental investigation of atomic coherence phenomena has made rapid progress Detailed studies have been performed of angular correlations spin polarization effects angular momentum transfer and the alignment parameters which characterize the charge cloud of excited atoms The enormous growth in the number of these investigations was made possible through substantial development and application of new experimental technology the development of sophisticated theoretical models and numerical methods and a fine interplay between theory and experiment This interplay has resulted in a deeper understanding of the physical mechanisms of atomic collision processes It is the purpose of the chapters in this book to provide introductions for nonspecialists to the various fields of this area as well as to present new experimental and

theoretical results and ideas The interest in spin dependent interactions in electron atom scattering has a long history it dates back to the early investigations of Mott in 1929 While the more traditional measurements in this field were concerned with the determination of spin polarization and asymmetries the range of investigations has been expanded enormously during the last few years and now includes many observables sensitive to one or more of the various spin dependent interactions The understanding of these effects requires a theoretical description of the orientation and alignment parameters of the target atoms of the formation of resonances of the influence of electron exchange processes and of the relativistic interactions inside the atom and between projectile and target Energy Research Abstracts ,1993 Nuclear Science Abstracts ,1976

The Enigmatic Realm of **Relativistic Atomic Collisions**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Relativistic Atomic Collisions** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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