



RELATIVISTIC ATOMIC COLLISIONS

Jörg Eichler
Walter E. Meyerhof



ACADEMIC PRESS

Relativistic Atomic Collisions

Alexander Voitkiv, Joachim Ullrich



Relativistic Atomic Collisions:

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 *Theory of Relativistic Ion-atomic Collisions* Jörg Eichler, 1990 **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 *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

Decoding **Relativistic Atomic Collisions**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Relativistic Atomic Collisions**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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