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Polarization, Alignment, and Orientation in Atomic Collisions

Second Edition

Polarization Alignment And Orientation In Atomic Collisions

H.J. Beyer, Karl Blum, R. Hippler



Polarization Alignment And Orientation In Atomic Collisions:

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Polarization, Alignment, and Orientation in Atomic Collisions Nils Andersen, Klaus Bartschat, 2013-05-14 This graduate text deals with polarization alignment and orientation effects in atomic collisions induced by electron or heavy particle impact The first part introduces light and particle polarization experimental and computational methods and the density matrix and state multipole formalism with examples and exercises The second part includes case studies of electron impact and heavy particle excitation electron transfer impact ionization and autoionization with the final chapter discussing related topics and applications The book includes selected seminal papers of tutorial value from the early history of the field Intended as an introductory text for both experimental and theoretical students and researchers the book can be used as a textbook for graduate courses as a primary source for special topics and seminar courses and as a standard reference

Correlation And Polarization In Electronic And Atomic Collisions - Proceedings Of The International Symposium Albert Crowe, Michael R H Rudge, 1988-05-01 This volume contains the invited papers delivered at the International Symposium on Correlation and Polarization in Electronic and Atomic Collisions Experts in the field give the current state and outline future directions of research providing a better fundamental understanding of electron atom and atom ion atom interactions Correlation and coherence effects in inelastic collisions as manifested by the observation of photon polarization and photon and particle angular distributions are discussed together with spin dependent effects using spin polarized electron beams

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

Advances in Atomic, Molecular, and Optical Physics, 1994-07-26 The latest volume in the highly acclaimed series addresses atomic collisions assessing the status of the current knowledge identifying deficiencies and exploring ways to improve the quality of cross section data Eleven articles written by foremost experts focus on cross section determination by experiment or theory on needs in selected applications and on efforts toward the compilation and dissemination of data This is the first volume edited under the additional direction of Herbert Walther Presents absolute cross sections for atomic collisions Uses benchmark measurements and benchmark calculations Discusses needs for cross section data in applications Contains a guide to data resources bibliographies and compendia

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 standard 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

Coherence and Correlation in Atomic Collisions Hans Kleinpoppen, 2013-11-11 H KLEINPOPPEN AND J F WILLIAMS It has only very recently become possible to study angular correlations and coherence effects in different areas of atomic collision processes These investigations have provided us with an analysis of experimental data in terms of scattering amplitudes and their phases of target parameters such as orientation alignment and state multipoles and also of coherence parameters e g the degree of coherence of excitation In this way the analysis of electron photon ion photon atom photon or electron ion coincidences from electron atom ion atom or atom atom collisional excitation has led to a breakthrough such that the above quantities represent most crucial and sensitive tests for theories of atomic collision processes Similarly the powerful e²e experiments electron electron coincidences from impact ionization of atoms have attracted much attention where improved experimental studies and detailed theoretical description provide a wealth of information on either the collisional ionization process or the atomic structure of the target atom Interference effects many electron correlations and energy and angular momentum exchange between electrons in a Coulomb field play a decisive role in the understanding of postcollision interactions New results on coherence effects and orientation and alignment in collisional processes of ions with surfaces and crystal lattices show links

to relevant interference phenomena in atomic collisions In small angle elastic electron atom scattering the effect of angular coherence can be studied in a crossed beam experiment Fundamental Processes in Atomic Collision Physics H.

Kleinpöppen, J. S. Briggs, H. O. Lutz, 2012-12-06 The Proceedings of the Advanced study Institute on Fundamental Processes in Atomic Collision Physics Santa Flavia Italy September 10-21 1984 are dedicated to the memory of Sir Harrie Massey whose scientific achievements and life are reviewed herein by Sir David Bates At the first School on the above topic Maratea September 1983 Volume 103 in this series Harrie Massey presented the introductory lectures summarized the entire lecture program and presented an outlook on future developments in atomic collision physics In an after dinner speech Massey recalled personal reminiscences and historical events with regard to atomic collision physics to which he had contributed by initiating pioneering work and by stimulating and surveying this branch of physics over a period of almost six decades Participants in the Maratea School will always remember Harrie Massey as a charming and wonderful person who was most pleased to discuss with everyone students postdoctorals and senior scientists any topic in atomic collision physics Harrie Massey was a member of the Scientific Advisory Committee of the 1984 Santa Flavia School Before his death he expressed his interest in attending this second School devoted to the presentation of recent developments and highlights in atomic collision physics It is the desire of all authors to honor Harrie Massey with their contributions in these Proceedings

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 **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

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