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Electron Emission in Heavy Ion–Atom Collisions



Springer

Electron Emibion In Heavy Ionatom Collisions

Jörg Eichler



Electron Emission in Heavy Ion-Atom Collisions:

Electron Emission in Heavy Ion-Atom Collisions Nikolaus Stolterfoht, Robert D. DuBois, Roberto D. Rivaola, 1997-10-28
This volume reviews the theoretical and experimental work about continuous electron emission in energetic ion atom collisions over the last 30 years General properties of the two center electron emission are analyzed and particular attention is given to screening effects The book also offers an overview of multiple ionization processes **Ionization and Electron Emission of Heavy Ion-atom Collisions** Michael Joseph Zarcone (Jr.), 1989 **High-energy Ion-atom Collisions** Dénes Berényi, G. Hock, 1991 High energy ion atom collisions are subject of intense investigation in present day atomic physics They give fundamental information on the collision mechanism of ions and atoms and on their highly excited states This book includes invited survey talks and invited contributions all carefully refereed The topics covered are electron capture and loss including ionization double electron and resonance processes electron correlation and post collision interaction effects collisions of antiparticles with atoms and so forth **Forward Electron Production in Heavy Ion-atom and Ion-solid Collisions**, 1984 A sharp cusp in the velocity spectrum of electrons ejected in ion atom and ion solid collisions is observed when the ejected electron velocity vector $v_{\text{sub } e}$ matches that of the emergent ion vector $v_{\text{sub } p}$ in both speed and direction In ion atom collisions the electrons originate from capture to low lying projectile centered continuum states ECC for fast bare or nearly bare projectiles and from loss to those low lying continuum states ELC when loosely bound projectile electrons are available Most investigators now agree that ECC cusps are strongly skewed toward lower velocities and exhibit full widths half maxima roughly proportional to $v_{\text{sub } p}$ neglecting target shell effects which are sometimes strong A close examination of recent ELC data shows that ELC cusps are instead nearly symmetric with widths nearly independent on $v_{\text{sub } p}$ in the velocity range 6 to 18 a.u. a result only recently predicted by theory Convoy electron cusps produced in heavy ion solid collisions at MeV/u energies exhibit approximately velocity independent widths very similar to ELC cusp widths While the shape of the convoy peaks is approximately independent of projectile Z velocity and of target material it is found that the yields in polycrystalline targets exhibit a strong dependence on projectile Z and velocity While attempts have been made to link convoy electron production to binary ECC or ELC processes sometimes at the last layer or alternatively to a solid state wake riding model our measured dependences of cusp shape and yield on projectile charge state and energy are inconsistent with the predictions of available theories 10 references 8 figures 1 table **High-energy Ion-atom Collisions** Dénes Berényi, G. Hock, 1988 These proceedings give fundamental information on the collision mechanisms of ions and atoms at relatively high energies and on their highly excited atomic states The information derived from such studies can often be applied in other fields such as material analysis dosimetry the study of the upper atmosphere and controlled fusion Phenomena involving the classical ion atom collision fields impact parameter dependences quasimolecular and electron correlation effects coherence phenomena the electron and photon spectroscopy of highly charged projectile and recoil ions

the loss and capture of electrons molecular and solid state effects and different aspects of instrumentation are all discussed in this volume *Multiple Ionization and Capture in Relativistic Heavy-ion Atom Collisions*, 1987 We show that in relativistic heavy ion collisions the independent electron model can be used to predict cross sections for multiple inner shell ionization and capture in a single collision Charge distributions of 82 to 200 MeV amu Xe and 105 to 955 MeV amu U ion beams emerging from thin solid targets were used to obtain single and multiple electron stripping and capture cross sections The probabilities of stripping electrons from the K L or M shells were calculated using the semiclassical approximation and Dirac hydrogenic wavefunctions For capture a simplified model for electron capture was used The data generally agree with theory

State-of-the-art Reviews On Energetic Ion-atom And Ion-molecule Collisions Dzevad Belkic, Igor Bray, Alisher Kadyrov, 2019-10-17 This book is based upon a part of the invited and contributing talks at the 25th International Symposium on Ion Atom Collisions ISIAC biennial held on July 23-25 2017 in Palm Cove Queensland Australia To aid the general reader all the authors tried to present their chapters in the context of the development of the addressed particular themes and the underlying major ideas and intricacies Some chapters contain new results that have not been previously published elsewhere Whenever possible the authors made their attempts to connect the basic research in atomic and molecular collision physics with some important applications in other branches of physics as well as across the physics borders It is hoped that the material presented in this book will be interesting and useful to the beginners and specialists alike The contents and expositions are deemed to be helpful to the beginners in assessing the potential overlap of some of the presented material with their own research themes and this might provide motivations for possible further upgrades Likewise specialists could take advantage of these reviews to see where the addressed themes were and where they are going in order to acknowledge the fruits of the efforts made thus far and actively contribute to tailoring the directions of future research Overall this book is truly interdisciplinary It judiciously combines experiments and theories within particle collision physics on atomic and molecular levels It presents state of the art fundamental research in this field It addresses the possibilities for significant and versatile applications outside standard atomic and molecular collision physics ranging from astrophysics surface as well as cluster physics chemistry hadron therapy in medicine and to the chemical industry It is then as Volume 2 fully in the spirit of the Aims and Scope of this book series by reference to its Mission Statement GS1 94 50 PREPRINT Thomas Stöhlker, Gesellschaft für Schwerionenforschung (Darmstadt), 1994 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

Two-electron Processes and Correlation Effects in Ion-atom Collisions Junwen Gao, 2019 This thesis presents a non perturbative theory to describe multi electronic processes occurring in the course of ion atom collisions The treatment is semiclassical in that the relative target projectile motion is described by classical straight line constant velocity trajectories while the electronic dynamics is treated quantum mechanically by solving non perturbatively the time dependent Schrodinger equation The treatment has been implemented in a new version of two active electron computer code Besides the long and complex development and tests of the code the last three years have been especially devoted to understanding of the physics of specific heavy particle scattering events We have undertaken the study of three collision systems with various features i low charge ion ion collisions with an extreme importance of electronic correlation H H collisions ii multiply charged projectile atom collisions C4 He and iii He He collisions with the dynamical treatment of the three electrons Our guideline was always to target systems for which experimental and theoretical results were available at least in some energy domain with still open questions related for example to strong disagreement between the various data We have tried as much as our computing resources and allowed it to produce results with controlled convergence These investigations were carried out in a very wide up to three decades energy domain with same collision description i e same basis sets which brought continuity and coherence on the predictions and the interpretations of the results and of the underlying mechanisms giving rise to the processes considered

Electron Transfer in Ion-atom Collisions Laura Norman Tunnell, 1979 **Multiple Electron Capture in Close Ion-atom Collisions**, 1989 Collisions in which a fast highly charged ion passes within the orbit of K electron of a target gas atom are selected by emission of a K x ray from the projectile or target Measurement of the projectile charge state after the collision in coincidence with the K x ray allows measurement of the charge transfer probability during these close collisions When the projectile velocity is approximately the same as that of target electrons a large number of electrons can be transferred to the projectile in a single collision The electron capture probability is found to be a linear function of the number of vacancies in the projectile L shell for 47 MeV calcium ions in an Ar target 18 refs 9 figs

Multiple-electron Processes in Fast Ion-atom Collisions, 1989 Research in atomic physics at the Lawrence Berkeley

Laboratory Super HILAC and Bevalac accelerators on multiple electron processes in fast ion atom collisions is described. Experiments have studied various aspects of the charge transfer ionization and excitation processes. Examples of processes in which electron correlation plays a role are resonant transfer and excitation and Auger electron emission. Processes in which electron behavior can generally be described as uncorrelated include ionization and charge transfer in high energy ion atom collisions. A variety of experiments and results for energies from 1 MeV u to 420 MeV u are presented. 20 refs 15 figs

Electron Emission in Highly Charged Ion-atom Collisions Chunlei Liao, 1995 **Charge Transfer and Excitation in High-energy Ion-atom Collisions**, 1986. Coincidence measurements of charge transfer and simultaneous projectile electron excitation provide insight into correlated two electron processes in energetic ion atom collisions. Projectile excitation and electron capture can occur simultaneously in a collision of a highly charged ion with a target atom; this process is called resonant transfer and excitation (RTE). The intermediate excited state which is thus formed can subsequently decay by photon emission or by Auger electron emission. Results are shown for RTE in both the K shell of Ca ions and the L shell of Nb ions for simultaneous projectile electron loss and excitation and for the effect of RTE on electron capture. *Electron Loss and Capture in Low-energy Ion-atom Collisions* Irwin S. Frost, 1961 Multi-electron Processes in Ion-atom Collisions Mikhail Zamkov, 2003 **Theoretical Investigation of Electron-ion and Ion-atom Collisions** Shon R. Grabbe, 1997 Convoy Electron Emission Produced in Ion-atom, Ion-foil, and Grazing Angle Ion-surface Collisions Jong Yeon Lim, 1996 **Electron Detachment in Ion-atom Collision** C. de Vreugd, 1980

Reviewing **Electron Emibion In Heavy Ionatom Collisions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Electron Emibion In Heavy Ionatom Collisions**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Electron Emibion In Heavy Ionatom Collisions

1. Understanding the eBook Electron Emibion In Heavy Ionatom Collisions
 - The Rise of Digital Reading Electron Emibion In Heavy Ionatom Collisions
 - Advantages of eBooks Over Traditional Books
2. Identifying Electron Emibion In Heavy Ionatom Collisions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electron Emibion In Heavy Ionatom Collisions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electron Emibion In Heavy Ionatom Collisions
 - Personalized Recommendations
 - Electron Emibion In Heavy Ionatom Collisions User Reviews and Ratings
 - Electron Emibion In Heavy Ionatom Collisions and Bestseller Lists

5. Accessing Electron Emibion In Heavy Ionatom Collisions Free and Paid eBooks
 - Electron Emibion In Heavy Ionatom Collisions Public Domain eBooks
 - Electron Emibion In Heavy Ionatom Collisions eBook Subscription Services
 - Electron Emibion In Heavy Ionatom Collisions Budget-Friendly Options
6. Navigating Electron Emibion In Heavy Ionatom Collisions eBook Formats
 - ePub, PDF, MOBI, and More
 - Electron Emibion In Heavy Ionatom Collisions Compatibility with Devices
 - Electron Emibion In Heavy Ionatom Collisions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electron Emibion In Heavy Ionatom Collisions
 - Highlighting and Note-Taking Electron Emibion In Heavy Ionatom Collisions
 - Interactive Elements Electron Emibion In Heavy Ionatom Collisions
8. Staying Engaged with Electron Emibion In Heavy Ionatom Collisions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electron Emibion In Heavy Ionatom Collisions
9. Balancing eBooks and Physical Books Electron Emibion In Heavy Ionatom Collisions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electron Emibion In Heavy Ionatom Collisions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electron Emibion In Heavy Ionatom Collisions
 - Setting Reading Goals Electron Emibion In Heavy Ionatom Collisions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electron Emibion In Heavy Ionatom Collisions
 - Fact-Checking eBook Content of Electron Emibion In Heavy Ionatom Collisions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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