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The Physics of Electronic and Atomic Collisions Lewis M. Branscomb, 1967 **The Physics of Electronic and Atomic Collisions**, 1968 **Electronic and Atomic Collisions**, 1958*

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International Conference on the Physics of Electronic and Atomic Collisions, 5Th Leningrad, 1967, 1968 **The physics of**

electronic and atomic collisions: invited papers and progress reports, ed International Conference on the Physics of Electronic and Atomic Collisions, 7th, Amsterdam, 1971, T. R. Govers, F. J. De Heer, Electronic and Atomic Collisions Guy Watel, 1978 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 e 2e 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 **Physics of**

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Physics of Ion-Ion and Electron-Ion Collisions F. Brouillard, J. W. McGowan, 2013-11-21 Some of the earliest civilizations regarded the universe as organized around four principles the four elements earth water air and fire Fire which was the source of light and as such possessed an immaterial quality related to the spiritual world was clearly the most impressive of these elements although its quantitative importance could not have been properly discerned Modern science has changed the names but macroscopic matter is still divided into four states The solid liquid and gaseous states are ordinary states but the fourth state of matter the plasma state has retained a somewhat extraordinary character It is now recognized that most of the matter of the universe is in the ionized state but on the earth the plasma state is still the exception Hence the importance and also the difficulty of investigations dealing with ionized matter which have been greatly furthered by the development of thermonuclear fusion research The study of matter in the ionized state comprises a large diversity of problems belonging to many different branches of physics A number of them relate to the microscopic properties of plasmas and concern the structure and the collisional behavior of atomic constituents Although they are clearly of basic importance their relevance to thermonuclear research was at first overlooked at a time when most of the effort was concentrated on designing fusion devices and understanding macroscopic phenomena mostly of an electromagnetic nature At present **Electronic and atomic collisions : invited papers** Jorg Eichler (Hertel, Ingolf V.), 1988 **The Physics of Electronic and Atomic Collisions: Invited Papers from the 5. International Conference** Lewis M. Branscomb, 1968 NBS Special Publication, 1980 **The physics of electronic and atomic collisions** Lewis M. Branscomb, 1967

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