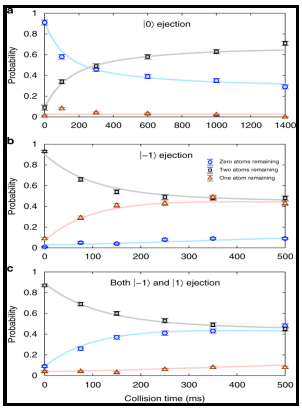
Theoretical studies of inelastic atomic collisions.

- - Studies of Elastic and Electronically Inelastic Electron



Description: -
-Theoretical studies of inelastic atomic collisions.
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Notes: Thesis (Ph. D.)--The Queens University of Belfast, 1966.
This edition was published in 1966

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Inelastic atomic collisions: generalization of Grawert parameters, Proceedings of SPIE

Due to the importance that collisions with molecules and clusters is adquiring recently, in the second part of this thesis we propose a classical approach to treat many-electron collisions.

Theoretical treatment of inelastic processes in atomic collisions involving one and many electron systems

The conventional and coherence cross-sections that can be measured in collisional experiments with atomic beams are expressed via quantities dependent on the dynamics only and independent of geometry. Law of Conservation of Energy: Energy can neither be created nor destroyed.

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In Part III the quadrupole-quadrupole mechanism for fine structure transitions in heavy atoms induced by collision with H2 IID and D2 is considered. Transition probabilities as functions of impact parameter and velocity were obtained by numerically integrating the trajectory integrals. What is clearly needed are theoretical methods which can provide quantitatively reliable cross-sections for the elastic and inelastic scattering of low-energy electrons by molecules.

Studies of Elastic and Electronically Inelastic Electron

The Journal of Physical Chemistry A 2010, 114 39 , 10619-10633.

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Only momentum is conserved in the inelastic collision. In the following equations, 1 and 2 indicate the two different objects colliding, unprimed variables indicates those before collision and primed variables indicate those after the collision, p is momentum, KE is kinetic energy, M is mass, and V is velocity. In the second formulation, a semiclassical approach is used.

Phys. Rev. A 102, 012806 (2020)

The Journal of Chemical Physics 2006, 125 13 , 132301. Inelastic atomic collisions: generalization of Grawert parameters Inelastic atomic collisions: generalization of Grawert parameters Paul-Kwiek, E. Use of the American Physical Society websites and journals implies that the user has read and agrees to our and any applicable.

Experimental and Theoretical Investigations of the Inelastic and Reactive Scattering Dynamics of O(3P) + D2

The Journal of Chemical Physics 2014, 141 16 , 164324.

Phys. Rev. Lett. 125, 143402 (2020)

The Journal of Physical Chemistry A 2009, 113 16 , 4677-4685. The Journal of Physical Chemistry A 2009, 113 16 , 4626-4630.

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