

Relativistic effects in electron scattering and photoionization of atoms and ions.

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Attosecond dynamics through a Fano resonance: monitoring the birth of a photoelectron. Controlling dielectrics with the electric field of light.

Core relaxation effects in inner shell photoionization of atoms

The laser was focused into a 6-mm long gas cell filled with Ne to generate high-order harmonics. The results are consistent with transition rates computed by other authors using a variety of many-electron techniques.

(IUCr) Ionic scattering factors of atoms that compose biological molecules

High- Z atoms are excellent laboratories to study the combination of relativistic and many-electron correlation effects in electronic structure and dynamics. Below 80 eV, the three quantities plotted in Fig.

Core relaxation effects in inner shell photoionization of atoms

LANL , Los Alamos, NM United States Sponsoring Org. Dashed lines suggest possible electron trajectories in the two cases.

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Photoionization to different ionic states followed by Auger decay produces a complex electron spectrum, with two sets of photoelectrons separated by 2 eV see Fig. The electron scattering factor of H + is also presented.

Attosecond electron

Parameterization of X-ray scattering factors of ions for the four Gaussians plus a constant model a 1 a 2 a 3 a 4 c R scat Ion b 1 b 2 b 3 b 4 % C

+ 6. Eigenphases from the multichannel analysis are presented for argon to illustrate mathematical features of the present calculation.

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