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Ion-impact ionization of atoms and molecules

A time-dependent close-coupling method has been applied in recent years to the study of ion-impact ionization of atoms and molecules. Although perturbative methods do well in treating ion-impact single ionization of atoms and molecules, non-perturbative methods are needed to make accurate predictions for ion-impact double ionization of atoms and molecules. In our studies of both ion-impact single and double ionization of atoms and molecules, we compare the time-dependent close-coupling results with other theoretical calculations and experimental measurements.

Biography

M S Pindzola is a Professor in Department of Physics at Auburn University, a Fellow of the American Physical Society and Institute of Physics, London.

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