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Differential cross sections for the photoionization of two-electron systems

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The time-dependent close-coupling approach has recently been used to compute fully differential cross sections for various electron- and photon-impact ionization processes of light atoms and molecules, including the double photoionization of He and Be and the electron-impact ionization of H and He. This talk will give a review of these recent developments and present our latest calculations, including the triple differential cross sections arising from the double photoionization of the H_2 molecule. Our calculations using the time-dependent close-coupling method are found to be in excellent agreement with recent measurements and other non-perturbative calculations.