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Double Ionization of He using UV and IR Laser Pulses[1] M. S. PINDZOLA, G. M. LAURENT, Auburn University, J. P. COLGAN, Los Alamos National Laboratory — A time-dependent close-coupling method is used to calculate the multiphoton double ionization of He using a combination of UV and IR laser pulses. Momentum space wavefunction densities, as well as single and triple differential probabilities, calculated for the two and three photon double ionization of He using a UV laser pulse are compared with those in the presence of an additional IR laser pulse.

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M. S. Pindzola
Auburn University

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