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Double Photoionization of Atomic Ions[1] M. S. PINDZOLA, Y. LI, Auburn University, J. P. COLGAN, Los Alamos National Laboratory — The semi-relativistic Schrodinger equation is solved using (l1 j1 l2 j2 J) coupled channels of spin-orbit eigenfunction products on a two dimensional (r1 r2) lattice. The two-active electron atom time-dependent close-coupling method is used to calculate double photoionization cross sections for a variety of atomic ions in support of free-electron laser experiments.

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