

Abstract Submitted  
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**Electron-impact ionization of  $\text{Li}_2$** <sup>1</sup> SHAHIN ABDEL-NABY, M.S. PINDZOLA, J.A. LUDLOW, F. ROBICHEAUX, Auburn University, J. COLGAN, Los Alamos National Laboratory — Electron-impact ionization cross sections are calculated for  $\text{Li}_2$ . A two active electron time-dependent close-coupling method is used to calculate cross sections for  $\text{Li}_2$  at the equilibrium internuclear distance for incident energies of 10 eV, 15 eV, and 20 eV. The nonperturbative close-coupling cross sections are found to be lower than perturbative distorted-wave cross sections due to electron correlation effects between the two outgoing continuum electrons.

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