

Abstract Submitted
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Electron Impact Single and Double Ionization along the Fe Isonuclear Sequence¹ S. D. LOCH, M. S. PINDZOLA, Auburn University — Electron-impact single and double ionization cross sections for Fe, Fe+, Fe+2, Fe+3, and Fe+4 are calculated using a combination of perturbative distorted-wave and non-perturbative time-dependent close-coupling methods. The single ionization cross section includes contributions from outer subshell direct ionization and excitation-autoionization. The double ionization cross section includes contributions from direct double ionization as well as from inner subshell direct ionization and excitation-autoionization. The cross sections for single and double ionization are compared with crossed-beams measurements.

¹NASA and DOE

M. S. Pindzola
Auburn University

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