

Abstract Submitted
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Electron Impact Ionization of Xenon Atomic Ions¹ JOHN A. LUDLOW, STUART D. LOCH, MICHAEL S. PINDZOLA, Auburn University — Excitation-autoionization features are studied in electron collisions with low-charged atomic ions in the Xenon isonuclear sequence. Calculations are made using semi-relativistic multi-configuration distorted-wave codes recently adapted for massively parallel computers. Theoretical predictions are compared with recent crossed-beams experiments for Xe^+ through to Xe^{10+} . The studies are extended to higher charged atomic ions of Xenon to map out the influence of radiation damping on excitation-autoionization features.

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