

Abstract Submitted
for the GEC05 Meeting of
The American Physical Society

Optical potential calculation of elastic electron scattering from heavy noble gases ALLAN STAUFFER, York University, Toronto, Canada, ROBERT MCEACHRAN, Australian National University, Canberra, Australia — We have developed a complex optical potential within the framework of the Dirac equations to account for the absorption of flux into the inelastic channels for electron scattering at intermediate energies. We have used Dirac-Fock wave functions to represent the fine-structure excited states of the atomic target. Detailed results will be given for elastic scattering from argon, krypton and xenon.

Allan Stauffer
York University, Toronto, Canada

Date submitted: 08 Jun 2005

Electronic form version 1.4