

Positron impact Elastic Scattering of Cd Atoms ^{*)}

B. C. Saha¹, A. K. F. Haque², M. Maaza, M. A. Uddin²,
M. A. R. Patoary² and A. K. Basak²

Department of Physics,

¹ Florida A&M University, Tallahassee, FL-32307.

² University of Rajshahi, Rajshahi-6205, Bangladesh.

An optical potential including static, polarization, and absorptive components is used to calculate differential, integrated, and momentum transfer cross sections for the elastic scattering of $e^+ + Cd$ in the energy region $6.0 eV < E < 1.0 keV$. A modified absorption potential including relativistic effects is used to evaluate cross sections. Our results are compared with other theoretical and experimental cross sections.

^{*)} Partial Support by NNSA.