

NOTE ON THE ELASTIC-SCATTERING OF FEW-MeV NEUTRONS  
FROM ELEMENTAL CALCIUM

by

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ABSTRACT

Neutron differential-elastic-scattering cross sections of elemental calcium are measured from  $< 1.5$  to  $4.0$  MeV at intervals of  $\approx 50$  keV. Scattering angles are distributed between  $20$  and  $160$  deg. Incident-neutron energy resolutions are  $\approx 50$  to  $100$  keV. The experimental results are compared with values given in ENDF/B-V and are examined in the context of shielding applications. An optical potential is deduced from the measured values and its possible implications are discussed.

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