Abstract Submitted
for the DNP06 Meeting of
The American Physical Society

Measurement of 7Be+p elastic and inelastic scattering[1] R.J. LIVESAY, CO School of Mines, D.W. BARDAYAN, J.C. BLACKMON, ORNL, K.Y. CHAE, Univ. Tennesse Knoxville, A.E. CHAMPAGNE, UNC Chapel Hill, C. DEIBEL, WNSL, Yale Univ., R.P. FITZGERALD, UNC Chapel Hill, U. GREIFE, CO School of Mines, K.L. JONES, Rutgers Univ., R.L. KOZUB, TN Tech. Univ., Z. MA, Univ. Tennesse Knoxville, C.D. NESARAJA, ORNL, S.D. PAIN, Rutgers Univ., F. SARAZIN, CO School of Mines, J.F. SHRINER JR., TN Tech. Univ., D.W. STRACENER, M.S. SMITH, ORNL, J.S. SMITH, Rutgers Univ., D.W. VISSER, ORNL, C. WREDE, M.S. JOHNSON, Rutgers Univ. — We have measured ^{7}Be+p elastic and inelastic scattering cross sections at the Holifield Radioactive Ion Beam Facility (HRIBF) at ORNL. Beams of isotopically pure ^{7}Be bombarded thin (100 μg/cm^2) polypropylene targets; scattered protons were detected in an array of silicon strip detectors. Cross sections were measured at 17 bombarding energies ranging from E_{cm}=0.5 to 3.4 MeV. The data at each energy were normalized using ^{7}Be+Au elastic scattering from a combined target of polypropylene and gold.

[1]funded by Department of Energy: Office of Nuclear Physics

Ronald Livesay
CO School of Mines

Date submitted: 15 Jun 2006 Electronic form version 1.4