Abstract Submitted
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Neutron-Helium-3 Analyzing Powers between 1.60 and 5.54 MeV[1] J.H. ESTERLINE, A.S. CROWELL, B.A. FALLIN, C.R. HOWELL, A. HUTCHESON, M.F. KIDD, M.R. KISER, R.A. MACRI, S. TAJIMA, W. TORNOW, TUNL & Duke University, B.J. CROWE, N.C. Central University & TUNL, R.S. PEDRONI, N.C. A&T University & TUNL, G.J. WEISEL, Penn State Altoona & TUNL — As part of a broader investigation of the four-nucleon system, the analyzing power for neutron-helium-3 scattering was measured at Triangle Universities Nuclear Laboratory (TUNL) at five neutron energies between 1.60 and 5.54 MeV. Measurements were made at around thirty angles for each energy using neutron beams, produced by the T(p,n)^{3}He and D(d,n)^{3}He source reactions, with polarizations ranging from 0.3 to 0.5. The data, recently corrected for finite geometry and multiple scattering effects, are compared to earlier experimental results as well as new *ab initio* calculations, as from [1]. [1] A. Deltuva and A.C. Fonseca, Phys. Rev. C **75**, 014005 (2007).

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