## Abstract Submitted for the HAW05 Meeting of The American Physical Society

Intermediate-energy Coulomb excitation of  $^{46}$ V,  $^{50}$ Mn, and  $^{54}$ Co <sup>1</sup> L.A. RILEY, M.J. BOJAZI, J.W. KREMENAK, D.C. MCGLINCHEY, Ursinus College, D. BAZIN, A.D. BECERRIL, J.M. COOK, A. GADE, T. GLASMACHER, W.F. MUELLER, C. VAMAN, National Superconducting Cyclotron Laboratory, Michigan State University, P.D. COTTLE, K.W. KEMPER, R.R. REYNOLDS, B.T. ROEDER, Florida State University — The reduced transition strengths  $B(E2;0^+_{\mathrm{g.s.}\to2^+_1})$  for the N=Z nuclei  $^{46}$ V,  $^{50}$ Mn, and  $^{54}$ Co have been measured via intermediate-energy Coulomb excitation at 60 MeV/nucleon. The  $0^+_{\mathrm{g.s.}}$  and  $2^+_1$  states of these  $T_z=0$  nuclei are the T=1 analog states of the ground states and  $2^+_1$  states of the corresponding  $T_z=\pm 1$  nuclei. The present result for  $^{54}$ Co is combined with the existing  $B(E2\uparrow)$  results [1,2] for the corresponding T=1 states in  $^{54}$ Fe and  $^{54}$ Ni to test isospin purity in the mass 54 T=1 multiplet. [1] S. Raman et al., Atomic Data Nucl. Data Tables 78, 1 (2001). [2] K. L. Yurkewicz et al., Phys. Rev. C70, 054319 (2004).

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