## Abstract Submitted for the DNP06 Meeting of The American Physical Society

## Coulomb

## Excitation

of  ${}^{49}$ Cr<sup>1</sup> KELLY HOSIER, DARREN MCGLINCHEY, LEWIS RILEY, Ursinus College — We measured gamma rays in coincidence with  ${}^{49}$ Cr particles scattered from a  ${}^{209}$ Bi target with a mid-target beam energy of 58 MeV/u at the National Superconducting Cyclotron Laboratory. We used GEANT simulations to extract the probability of populating the 272 keV 7/2<sup>-</sup> state of  ${}^{49}$ Cr via Coulomb excitation. This result is compared with existing measurements and shell model calculations.

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