Abstract Submitted
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Geant4 Simulations of Gamma Ray Detectors[1] D.C. MCGLINCHEY, Ursinus College — The Geant4 toolkit is used to develop simulations of the Segmented Germanium Array (SeGA) at the National Superconducting Cyclotron Laboratory (NSCL). A simple NaI detector is used as a starting example in order to test the Geant4 toolkit. Simulated spectra were compared with measured spectra from ^{137}Cs, ^{133}Ba, ^{22}Na, and ^{60}Co. It has been found that the lineshape of the simulated spectrum matches well with the lineshape of the collected spectrum within the tested energy range of 0-1400 keV. A similar comparison of source data from a single SeGA detector has been made and results will be presented.

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