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Analysis of ^{26}P(β^+pγ)^{25}Al Decay Gamma-ray Spectrum SARAH SCHWARTZ, Michigan State University, NSCL and University of Southern Indiana, CHRISTOPHER WREDE, MICHAEL BENNETT, Michigan State University and NSCL, NSCL EXPERIMENT 10034 COLLABORATION — The spectrum of gamma rays emitted following the beta-delayed proton emission of ^{26}P to excited states of ^{25}Al was analyzed to obtain information about this decay channel. New and existing gamma-ray transitions in ^{26}P(β^+pγ)^{25}Al were observed and their relative intensities were measured to determine the feeding and branching of excited ^{25}Al states. Doppler-broadening effects due to the recoil of the daughter nucleus were observed and analyzed in detail for the 1612 keV gamma-ray line.

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