
 $^{45}\text{Sc}(^3\text{He}, ^3\text{He}\gamma)$ E=38 MeV [2007La23](#)

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Measured ^3He - γ coincidences with the CACTUS multi-detector array (8 Si ($\Delta E/E$) particle telescopes At 45° relative to the beam. 28 collimated NaI γ -detectors (total efficiency \approx 15%) surrounded the target and particle detectors). ^3He - γ coincidences were sorted into E(^3He)-E γ matrices by gating on the ^3He particle. γ -spectra unfolded using the known response function of the CACTUS array. A subtraction method was used to obtain γ -spectra containing only the first γ 's in a cascade. Deduced level densities up to \approx 7.5 MeV.