Coulomb excitation 2008Sc18

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Beam=²¹Ne at 1.7 MeV/nucleon, target=^{nat}Ti.

E=1.7 MeV/nucleon beam provided by TRIUMF-ISAC facility. Scattered beam and target particles were detected by a segmented Si detector BAMBINO, γ -rays were detected by using two TIGRESS HPGe clover detectors. Measured γ -ray yields and angular distributions. Deduced B(E2) from g.s. to first excited state using known B(E2)(\downarrow)= 0.01522 38 for first 2⁺ to g.s. excitation (983.5 γ) in ⁴⁸Ti as a reference. GOSIA analysis of Coulomb excitation yields.

²¹Ne Levels

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Level Scheme

