Coulomb excitation 2008Sc18,2009Sc28

Type Author Citation Literature Cutoff Date

Full Evaluation R. B. Firestone NDS 127, 1 (2015) 15-Jan-2015

Beam=²¹Na 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.

²¹Na Levels

E(level) J^{π} $T_{1/2}$ Comments $0 \ 3/2^{+}$ $331.9 \ 5/2^{+}$ 7.08 ps 8 B(E2)↑=0.0205 14 $Y(^{21}\text{Na})$ E_γ E_i(level) J^{π}_{i} E_f J^{π}_{f} Mult. δ Comments

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Level Scheme

