3 H(30 Mg,p γ) **2010Wi11**

Type Author Citation Literature Cutoff Date
Full Evaluation Jun Chen NDS 201,1 (2025) 31-Oct-2024

2010Wi11: E=1.8 MeV/nucleon 30 Mg secondary beam was produced by 1.4 GeV proton primary beam from the CERN PS Booster impinging on an UC_x/graphite production target, and separated with the ISOLDE general-purpose separator at the REX-ISOLDE-CERN facility. The reaction target was 3 H+Ti with $500~\mu g/cm^{2}$ Ti foil and $40~\mu g/cm^{2}$ 3 H. γ rays were detected with the MINIBALL array and protons were detected with the T-REX consisting of position-sensitive Δ E-E telescopes. Measured $\sigma(E_{p},\theta)$, $E\gamma$, $I\gamma$, $p\gamma$ -coin. Deduced levels, I, π , I-transfers from DWBA analysis. Comparisons with Monte-Carlo Shell-Model (MCSM) calculations.

32Mg Levels

 γ (³²Mg)

[†] From Eγ data.

[‡] From DWBA analysis of measured $\sigma(\theta)$ (2010Wi11).

[†] From 2010Wi11.

