12 C(27 Na, 26 F γ) **2012St01**

 ${}^{26}_{9}F_{17}$

Type Author Citation Literature Cutoff Date

Full Evaluation M. S. Basunia and A. M. Hurst NDS 134, 1 (2016) 1-Feb-2016

Also $^{12}\text{C}(^{28}\text{Na},26(\text{fragment})\gamma)$.

E=60 MeV/nucleon secondary ^{27,28}Na beam was produced by fragmentation of 77.5 MeV/nucleon ³⁶S beam with a 398 mg/cm² C target at GANIL facility. The spectrometer was optimized to ²⁷, ²⁸Na selection. ²⁶F nuclei were selected and identified on an event-by-event basis through the SPEG spectrometer using time-of-flight, focal-plane position and energy loss information. The secondary reaction target was 103.5 mg/cm² plastic scintillator sandwiched between two carbon foils of 51 mg/cm². Gamma rays detected by an array of 74 BaF₂ detectors. Deduced level energies. Comparison with shell-model calculations.

²⁶F Levels

$$\frac{\text{E(level)}}{0.0} \quad \frac{\text{J}^{\pi^{\dagger}}}{1^{+}}$$
657 7 (2⁺)

† From Adopted Levels.

 $\gamma(^{26}F)$

$$\frac{\text{E}_{\gamma}}{657.7}$$
 $\frac{\text{E}_{i}(\text{level})}{657}$ $\frac{\text{J}_{i}^{\pi}}{(2^{+})}$ $\frac{\text{E}_{f}}{0.0}$ $\frac{\text{J}_{f}^{\pi}}{1^{+}}$

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Level Scheme

