^{1}H(^{25}F,2p) 2020Ta11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia, Anagha Chakraborty	NDS 186, 2 (2022)	31-Mar-2022

Secondary beam of ^{25}F, E=277 MeV/nucleon, was produced from ^{9}Be(^{48}Ca,X), E=345 MeV/nucleon, fragmentation reaction at RIKEN facility. The particle identification (PID) was performed by ΔE-TOF-Bρ method. The intensity and purity of the ^{25}F beam were 1.69×10^{4} and 42%, respectively. The secondary target was a 1-mm-thick $C_{10}H_8$ crystal. Measured reaction product ^{24}O; deduced integrated σ, spectroscopic factors.

^{24}O Levels

E(level)†	S	Comments
0.0	0.36 *13*	E(level): −0.5 MeV *11* (2020Ta11). Width=4.8 MeV *13*, σ=53 μb *18*.
6.5×10^{3} *14*	0.65 *25*	E(level): 6.5 MeV *14* (2020Ta11). Width=6.3 MeV *9*, σ=81 μb *26*.
12.7×10^{3} *6*	3.43 *14*	E(level): 12.7 MeV *6* (2020Ta11). Width=7.6 MeV *6*, σ=81 μb *26*.

† From mean excitation energy (2020Ta11), listed in comments. Peaks were fitted with a single Gaussian to obtain the mean excitation energy and the width. Mean excitation energy, not listed in the Adopted Levels except the g.s.