

$^{243}\text{Am}(p,t)$ 1974Fr01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 130, 183 (2015)	30-Sep-2015

1974Fr01: Proton beam with $E=16.5$ MeV from the Argonne FN tandem bombarded a 50-150 $\mu\text{g}/\text{cm}^{243}\text{Am}$ target. Measurements were done with the Enge split-pole magnetic spectrograph. Cross section were measured between $15^\circ-60^\circ$. Determined L from angular distribution, and Q value. Interpreted cross section measurements with DWBA calculation using the code TWOPAR.

$Q(p,t)=-3407.15$ (1974Fr01).

$J^\pi(\text{target})=5/2^-$.

 ^{241}Am Levels

E(level)	J^π	L [#]	$\sigma(\text{exp})_{60^\circ}/\sigma(\text{DWBA})$
0	$5/2^-$	0	3.05
42.2	$7/2^-$ †	2	
94.2	$9/2^-$ †	(2,4)	
158.0.15	$11/2^-$ †	4	
234.0.13	$(13/2^-)$ ‡	4	
952.1	$5/2^-$	0	0.55
982.2			
1136.3			
1550.4	$(5/2^-)$	(0)	0.35

† From l and comparisons to J^π in Adopted Levels.

‡ From l and fits to the rotational bands sequence.

From $\sigma(\theta)$.