

184W(d,d') 1971Gu17

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 111,275 (2010)	1-Oct-2009

E=12.1 MeV; >95% isotopically enriched target; broad-range magnetic spectrograph with nuclear emulsions; $\theta(\text{lab})=90^\circ, 125^\circ$; measured $d\sigma/d\Omega$ At two angles.

184W Levels

E(level) [†]	$\sigma(90^\circ)/\sigma(125^\circ)$ [#]	$d\sigma/d\Omega(125^\circ)$ $\mu\text{b}/\text{sr}$ [‡]
0.0	4.3	18200
111.2&	1.2	2860
364.1&	0.6	163
748.3&		≥ 2.5
903.3&	1.5	107
1003 2		1.2 4
1120 2	1.5	5.2
1133 2	1.6	4.9
1221 2	1.2	37
1285 3	1.6 ^a	2.6
1322 3	1.0 ^a	4.2
1359 3		2.8
1386 3	1.6	13
1432 3		7.0
1477 4	1.2 ^a	4.3
1492 4	1.7 ^a	2.9
1538 4	0.7	23
1635 5		1.0 4
1756 5	0.6	11
1909 6	0.7	27
2123 @ 8		
2204 8	0.8 ^a	8.4
2406 9	1.0 ^a	3.8
2420 9		2.0
2515 10		2.4
2550 10		1.5
2660 11		11
2670 11		5.9
2800 12		2.7
2840 @ 12		3.3
2863 @ 12		4.0

[†] From 1971Gu17, except As noted. The uncertainties for levels with E<1200 are 2 keV. Uncertainties for levels with E>1200 are assigned by the evaluator on the basis of the authors' statement that their ΔE increases by ≤ 6 keV per MeV. The evaluator assumes 6 keV per MeV.

[‡] $d\sigma/d\Omega$ At 125° ($\mu\text{b}/\text{sr}$); uncertainty $\approx 20\%$, except As noted.

[#] Ratio of $d\sigma/d\Omega$ At 90° to that At 125° . typical values range from 1.2 to 1.7 for excitation of 2^+ states and from 0.9 to 2.0 for 3^- states.

@ Composite peak.

& Rounded value from Adopted Levels.

^a Upper limit.