

¹⁸⁰W(p,t) 1980Mo11,1977Mo15

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Achterberg, O. A. Capurro, G. V. Marti		NDS 110, 1473 (2009)	31-May-2008

Target: ¹⁸⁰W, E(p)=21 MeV. Measured scattered tritons. Detector: magnetic spectrograph, FWHM≈20 keV.

¹⁷⁸W Levels

<u>E(level)</u>	<u>L[†]</u>	<u>E(level)</u>	<u>L[†]</u>	<u>E(level)</u>	<u>E(level)</u>
0.0 [@]	0	1117 [‡] 5		≈1720 [‡]	2060 5
105 [@] 5		1278 5		≈1790 [#]	2091 5
343 [@] 5		1356 5 0		≈1825	2116 5
699 [@] 5		1435 5		≈1860 [#]	
997 5	0	1450 5		≈1960 [#]	
1083 5		1643 5 0		2030 5	

[†] From comparison of measured cross sections with calculated values (DWBA and coupled-channel Born approximation (CCBA)) at various angles. L=0 transfers are well identified because of their highly oscillatory angular distributions.

[‡] Doublet.

[#] Multiplet.

[@] Band(A): K^π=0⁺ g.s. rotational band.

 $^{180}\text{W}(\text{p,t})$ 1980Mo11,1977Mo15

Band(A): $K^\pi=0^+$ g.s.
rotational band

699

343

105

0.0

 $^{178}_{74}\text{W}_{104}$