

<sup>186</sup>W(p,t) 2006Me25,1973KiZK

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

Others: [1972Ma15](#), [1980Mo11](#).

[1972Ma15](#): E=17 MeV, >98% enriched <sup>186</sup>W target.

[1972Ki05](#), [1973KiZK](#): E=18 MeV; multigap magnetic spectrometer (FWHM≈12 keV); measured  $\sigma(\theta)$ ,  $\theta(\text{lab})=5^\circ-167.5^\circ$  (7.5° steps).

[1980Mo11](#): E=21 MeV, FWHM=21 keV, 97.1% enriched <sup>186</sup>W target; data for E(level)≤1200 analyzed in detail, but many higher-energy states are evident in the  $\theta(\text{lab})=20^\circ$  spectrum shown in fig. 1 of [1980Mo11](#).

[2006Me25](#): E=25 MeV. FWHM=4-6 keV for E(t)=15-20 MeV; Q3d magnetic spectrograph;  $\theta(\text{lab})=5^\circ, 17.5^\circ, 30^\circ$ ; DWBA analysis of  $\sigma(\theta)$ . see also [2006Me13](#) and [2005Me19](#).

<sup>184</sup>W Levels

E(level) <sup>†</sup>	L <sup>‡</sup>	dσ/dΩ(5°) mb/sr <sup>#</sup>	Comments
0.0	0	1.134 9	
110& 3	(2)@		
364& 3	(4)@		
744? 10			E(level): from <a href="#">1980Mo11</a> ; unresolved from <sup>182</sup> W state. dσ/dΩ(max)<0.0068 dσ/dΩ(max;g.s.).
902& 3			
1003.3 4	0	0.083 2	L: also determined by <a href="#">1972Ma15</a> based on comparison of angular distribution with that for the ground state.
1123			E(level): from <a href="#">1972Ki05</a> .
1132& 5			E(level): not fully resolved from 2 <sub>γ</sub> <sup>+</sup> 1121 level at many angles ( <a href="#">1972Ki05</a> ).
1221& 3			
1614.3 5	0	0.0121 5	
1774.5 5	0	0.0028 2	
1795.8 5	0	0.0081 4	
2030.7 6	0	0.0033 3	
2111.2 6	0	0.0252 7	
2309.6 7	0	0.0077 4	
2404.7 7	0	0.0119 5	
2468.9 7	(0)	0.0048 3	
2512.7 7	0	0.007 1	
2567.9 7	(0)	0.0102 7	
2826.4 7	0	0.0370 9	
2871.3 7	(0)	0.0123 6	
2927.7 7	(0)	0.0076 5	
2939.6 7	(0)	0.0050 4	

<sup>†</sup> From [2006Me25](#), except As noted.

<sup>‡</sup> From DWBA analysis of measured  $\sigma(\theta)$  ([2006Me13](#),[2006Me25](#)), except As noted.

<sup>#</sup> dσ/dΩ At 5°. see [2006Me25](#) for dσ/dΩ At 17.5° and 30°.

@ From [1973KiZK](#) based on coupled-channel Born approximation fit to  $\sigma(\theta)$ . [1973KiZK](#) show  $\sigma(\theta)$  to be in agreement with L(110)=2 and L(364)=4.

& From [1973KiZK](#).