

$^{178}\text{Hf}(t,p)$ 1983Bu03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015

E(p)=15 MeV. Target enriched to 94.7% ^{178}Hf . Measured $\sigma(\theta)$ for $\theta=7.5^\circ$ to 67.5° in steps of 7.5° using Enge split-pole magnetic spectrograph and photographic emulsions (FWHM ≈ 15 keV); DWBA analysis.

 ^{180}Hf 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	1199	2	≈ 1716	2115
93		1316	0	1756	2303
308		1409 [‡]	(2)	1824	2348
638		1482		1906	
1102?		1608	(4)	1939	

[†] Definite L values are from a comparison with DWBA calculations. Tentative L values are given from a comparison of the shape of angular distribution to that measured from levels with well-established spin values.

[‡] Angular distribution suggests that this level is not the same as the $J^\pi=4^+$, 1409.2-keV level observed in (n, γ).