

$^{173}\text{Yb}(\text{p,t})$ 1973Oo01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin, E. A. Mccutchan		NDS 151, 334 (2018)	30-Jun-2018

Target $J^\pi=5/2^-$.

E(p)=19 MeV; Yb metal targets enriched to 85.1% in ^{173}Yb ; measured E(level) (mag spect, FWHM=10-12 keV), angular distributions, absolute differential cross sections.

 ^{171}Yb Levels

E(level)	$L^\dagger$	E(level)	$L^\dagger$	E(level)	J^π	$L^\dagger$	E(level)	$L^\dagger$
0 5	2	601 [#] 5	(4)	1242 [#] 7			1763 7	
75 [‡] 5		778 [#] 7		1265 [#] 5			1827 7	
94 7		831 7		1338 [#] 7			1845 7	
123 5	0	907 ^{#@} 5		1389 5		(2)	1868 7	
168 5		940 5		1436 7			1902 10	
208 5	2	960 5		1487 7			1966 10	
228 [‡] 5	(4)	995 7		1513 [@] 5	5/2 ^{-&}	0	1995 [#] 10	(0)
248 [#] 5		1027 5		1590 [@] 5			2108 10	
318 [@] 5	2	1048 5		1624 5			2286 10	
369 7	(4)	1085 7		1649 7			2303 10	
448 5	(4)	1111 7		1673 [#] 7			2373 10	
486 [#] 5		1140 ^{‡#} 5		1698 7			2476 10	
502 7		1198 7		1736 7			2642 10	

[†] From DWBA analysis of angular distributions; dominant L-value only is given.

[‡] Possible doublet (wider than normal peak).

[#] Corrected for contaminant from another Yb isotope.

[@] Doublet (wider than normal peak).

[&] Strong L=0 transfer; level is probably K=0 vibrational state based on 5/2[512] orbital.