

$^{205}\text{Tl}(\text{p},\text{t})$ **1977Se15, 1981We03**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 105,1 (2005)	1-Mar-2005

1977Se15: E(p)=19 MeV; magnetic spectrograph; $\sigma(\theta)$; $\Delta E=5\text{-}7 \text{ keV}$.

1981We03: E(p)=26.2 MeV; Target: 99.5% ^{205}Tl , $\approx 0.25 \text{ mg/cm}^2$ thick; Detectors: position sensitive proportional chamber backed by a thin plastic scintillator; Measured: $\sigma(\theta)$, FWHM=20 keV; Deduced: E,L,J $^\pi$,s. DWBA analysis. $\Delta E=5 \text{ keV}$ below 2 MeV and $\Delta E=10 \text{ keV}$ above 2 MeV.

 ^{203}Tl Levels

E(level) [†]	J $^\pi$ #	L [‡]	S [‡]	Comments
0	1/2 $^+$	0	5.88	
279 5	3/2 $^+$	2	0.46	
681 5	5/2 $^+$	2	3.20	
1045 5	3/2 $^+$	2	0.83	
1068 5	3/2 $^+, 5/2^+$	2	0.47	
1075 [‡] 7				
1113 5	(1/2 $^+, 3/2^+$)	(0+2)		
1188 5	7/2 $^+, 9/2^+$	4	1.24	
1227 5	7/2 $^+, 9/2^+$	4	9.61	
1273 5	7/2 $^+, 9/2^+$	4	4.66	
1325 5	(3/2 $^+, 5/2^+$)	(2)	0.20	
1400 5	7/2 $^+, 9/2^+$	4	3.37	
1454 5	3/2 $^+, 5/2^+$	2	0.62	
1492 5	7/2 $^+, 9/2^+$	4	4.00	
1574 5	3/2 $^+, 5/2^+$	2	0.16	
1655 5	(1/2 $^+, 3/2^+$)	(0+2)		
1688 [‡] 5	3/2 $^+, 5/2^+$	2		L: From 1977Se15.
1698 5	(7/2 $^+, 9/2^+$)	(4)	1.63	
1755 5	3/2 $^+, 5/2^+$	2	0.34	
1820 5	(3/2 $^+, 5/2^+$)	(2)	0.34	
1856 5	3/2 $^+, 5/2^+$	2	0.18	
1924 5				
1964 5	7/2 $^+, 9/2^+$	4	0.78	
1987 5				
2040 10				
2077 10				
2149 10				
2180 10	3/2 $^+, 5/2^+$	2		
2232 10	3/2 $^+, 5/2^+$	2	0.20	
2270 10	(9/2 $^-, 11/2^-$)	(5)	0.72	
2310 10		(0+4)		
2345 10	(7/2 $^+, 9/2^+$)	(4)	1.45	
2367 10				
2406 10	(9/2 $^-, 11/2^-$)	(5)	0.35	
2445 10	(7/2 $^+, 9/2^+$)	(4)	2.26	
2494 10	(5/2 $^-, 7/2^-$)	(3)	0.22	
2541 10	(5/2 $^-, 7/2^-$)	(3)	0.41	
2598 10	(11/2 $^+, 13/2^+$)	(6)	1.35	
2629 10				

[†] From 1981We03, unless otherwise stated.

[‡] From 1977Se15.

From L transfer values (by the evaluator).