

<sup>206</sup>Pb(pol t,α) 1966Hi05,1977F104

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 166, 1 (2020)	20-Apr-2020

E(t)=13.5 MeV (1966Hi05); E(t)=17 MeV, 75% polarized (1977F104).  
 Other: 1976SuZW.

<sup>205</sup>Tl Levels

E(level) <sup>†</sup>	Jπ <sup>‡</sup>	L <sup>†</sup>	S <sup>‡#</sup>	Comments
0	1/2 <sup>+</sup>	0	1.4	configuration: π(s <sub>1/2</sub> <sup>-1</sup> ).
205 5	3/2 <sup>+</sup>	2	1.6	configuration: π(d <sub>3/2</sub> <sup>-1</sup> ).
614 5	5/2 <sup>+</sup>	2	0.3	configuration: Probably a mixture of configuration=π(d <sub>5/2</sub> <sup>-1</sup> ) and configuration=π(s <sub>1/2</sub> <sup>-1</sup> )⊗2 <sup>+</sup> .
1138 5	3/2 <sup>+</sup>	2	0.8	
1222 5	1/2 <sup>+</sup>	0	0.3	
1341 5	3/2 <sup>+</sup>	2	0.4	
1436 5	(1/2 <sup>+</sup> )	(0)	0.3	
1491 5	11/2 <sup>-</sup>	5	5.3	configuration: π(h <sub>11/2</sub> <sup>-1</sup> ).
1580?				E(level): From 1966Hi05.
1859 10	5/2 <sup>+</sup> ,11/2 <sup>-</sup>	2,5	(0.5)	S: Assuming J=5/2.
1953 10	5/2 <sup>+</sup> ,11/2 <sup>-</sup>	2,5	(0.6)	S: Assuming J=5/2.
2044 10	11/2 <sup>-</sup> ,5/2 <sup>+</sup>	5,2	(2.4)	S: Assuming J=11/2.
2112 10	11/2 <sup>-</sup> ,5/2 <sup>+</sup>	5,2	(1.0)	S: Assuming J=11/2.
2304 10	(1/2 <sup>+</sup> )	(0)	(0.1)	
2420 10				
2482 10				
2588 10	5/2 <sup>+</sup> ,11/2 <sup>-</sup>	2,5	(0.4)	S: Assuming J=5/2.
2714 10				

<sup>†</sup> From 1977F104, unless otherwise stated.

<sup>‡</sup> From L transfer values and vector analyzing power in 1977F104.

<sup>#</sup> Defined as Δσ/ΔΩ(exp)= 23×S×σ(DWBA). ΔS=±20%.