

²⁰⁶Pb(p,α) **1985Fi05**

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

E(p)=35 MeV; Target: enriched, 0.3 mg/cm² thick; Measured: magnetic spectrograph, $\sigma(E(\alpha),\theta)$, FWHM(α) \approx 20 keV; Deduced: E, J $^{\pi}$. DWBA analysis.

²⁰³Tl Levels

E(level) [†]	J $^{\pi}$ [‡]	E(level) [†]	J $^{\pi}$ [‡]	E(level) [†]	J $^{\pi}$ [‡]
0	1/2 ⁺ #	1993 3		2840 5	(11/2 ⁺)
280 3	3/2 ⁺ #	2067 @ 5		2910 5	(5/2,7/2 ⁺)
682 3	5/2 ⁺ #	2134 5		2957 @ 5	
1079 3	7/2 ⁺	2177 5		2995 5	(11/2,13/2,15/2) ⁻
1190 3		2242 5		3049 5	9/2 ⁺
1223 3	5/2 ⁺	2284 5		3104 8	
1273 3	(5/2 ⁻ ,7/2 ⁺)	2314 5	(13/2,15/2) ⁻	3203 8	(5/2)
1401 3		2349 5	(5/2,7/2)	3239 8	(17/2,19/2) ⁻
1455 3	11/2	2415 @ 5		3284 8	9/2
1491 3	(7/2 ⁺ ,9/2 ⁺)	2445 5	(5/2,7/2)	3329 8	
1571 3	(5/2 ⁻ ,7/2 ⁺)	2512 5	(5/2,7/2)	3397 @ 8	(9/2,21/2 ⁺)
1649 3		2597 5		3454 @ 8	(3/2,17/2)
1690 3	5/2 ⁺	2635 5	(1/2 ⁺ ,3/2 ⁺)	3596 @ 8	(9/2,19/2 ⁺ ,21/2 ⁺)
1743 3	(5/2,7/2 ⁺)	2686 5	(9/2,11/2)	3643 8	
1818 3		2720? 5		3722 8	(7/2,19/2 ⁺ ,21/2 ⁺)
1844 3		2760? 5		3859 8	
1925 3		2810? 5		3948 8	

[†] From 1985Fi05.

[‡] From comparison of measured $\sigma(\theta)$ with cluster model DWBA calculations (1985Fi05), unless otherwise stated.

From Adopted Levels.

@ Doublet.