^{204}Pb(p,α)   **1985Fi05**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

E(p)=35 MeV; Target: enriched, 0.3 mg/cm^2 thick; Measured: magnetic spectrograph, σ(E(α),θ), FWHM(α)≈35 keV; Deduced: E, J^{π}. DWBA analysis.

^{201}Tl Levels

E(level)[†]	J^{π}[‡]	E(level)[†]	J^{π}[‡]	E(level)[†]	J^{π}[‡]	E(level)[†]	J^{π}[‡]
0	1/2+[#]	1834 *15*	(5/2)	2534 *20*	(9/2)	3201 *20*	
334 *8*	3/2+[#]	1908 *15*	(13/2,15/2$^-$)	2622 *20*	(15/2$^+$)	3303 *20*	(9/2,11/2)
699 *8*	5/2+[#]	1940 *15*	(7/2,9/2)	2669 *20*	(5/2)	3362 *20*	(15/2$^+$)
1131 *15*	7/2$^+$	1996 *15*	(15/2)	2714 *20*		3401 *20*	(17/2$^+$)
1286 *15*	(9/2$^+$)	2045 *20*	(11/2$^-$,13/2)	2762 *20*	(7/2,9/2)	3441 *20*	(9/2)
1331 *15*	(5/2,7/2,9/2)	2103 *20*	(9/2)	2853 *20*	(11/2$^-$)	3499 *20*	(15/2)
1419 *15*	(11/2$^-$)	2145 *20*	(9/2)	2899 *20*	(15/2$^+$)	3552 *20*	(15/2)
1579 *15*	(9/2)	2196 *20*	(15/2$^+$)	2976 *20*	(15/2$^+$)	3615 *20*	(17/2$^-$,19/2$^-$)
1655 *15*	(5/2,7/2)	2254 *20*	(15/2$^-$)	3030 *20*	(15/2$^+$,17/2$^+$)	3648 *20*	(15/2$^+$)
1725 *15*	(7/2,9/2)	2379 *20*	(15/2$^+$)	3083 *20*	(9/2,11/2)	3674 *20*	(17/2,19/2$^-$)
1763 *15*	(7/2,9/2)	2449 *20*		3133 *20*		3727 *20*	

[†] From 1985Fi05, but values were lowered by 15 keV for levels above 700 keV, since from comparison of the excitation energies in 1985Fi05 (up to 1600 keV) and these from the Adopted Levels, the former values appear to be ~ 15 keV higher.

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

[#] From Adopted Levels.