

$^{204}\text{Pb}(\text{p,t})$ [1977La10,1983Ta05](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 196,342 (2024)	1-Sep-2023

[1977La10](#): E(p)=35 MeV; Target: 90% enriched; Detectors: one position sensitive proportional counter; nuclear emulsion plate; MSU split-pole magnetic spectrometer. Measured: E(t), FWHM=15 keV, $\sigma(\theta)$.

[1983Ta05](#): E(p)=51.9 MeV; Target: PbO with Mylar backing, 2 mg/cm². Detectors: 200 proportional counters; one large plastic-scintillation counter; magnetic analysis system. Measured: E(t), FWHM=90 keV, $\sigma(\theta)$.

Others: [1967Re02](#), [1974Or01](#).

 ^{202}Pb Levels

E(level) [†]	J π [‡]	L [#]	Comments
0	0 ⁺	0	
961 1	2 ⁺	2	
1383 2	4 ⁺	4	
1584 2	(2 ⁺) [@]	(2) [@]	
1623 2	4 ⁺	4	
1657 2	2 ⁺ [@]	2 [@]	
1798 2	2 ⁺ ,4 ⁺	(2,4)	
1815 2			
1915 2	4 ⁺	4	
1963 2			
2040 3	5 ⁻	5	
2172 3	9 ⁻	9	
2185? 3			
2207 3			
2307 3	7 ⁻	7	
2364 3			
2389 3			
2516 3	4 ⁺	4	
2600& 30	5 ⁻	5	
2666 3	4 ⁺ [@]	4 [@]	
2747 3	6 ⁺	6	E(level): Other: 2760 10 in 1974Or01 . Configuration= $\nu(\text{f}_{5/2}^{-1}, \text{f}_{7/2}^{-1})$.
2995 3	5 ⁻	5	
3131 3			
3180 3	4 ⁺ [@]	4 [@]	
3200& 30	8 ⁺	8	
3800& 30	5 ⁻	5	
4000& 30	7 ⁻	7	
4400& 30	11 ⁻	11	
4500& 30	11 ⁻	11	
4600& 30	6 ⁺	6	
5200& 30	9 ⁻	9	
5300& 30	9 ⁻	9	

[†] From [1977La10](#), unless otherwise stated.

[‡] From deduced L values in [1983Ta05](#), unless otherwise stated.

[#] From $\sigma(\theta)$ in [1983Ta05](#), unless otherwise stated.

[@] From [1977La10](#).

[&] From [1983Ta05](#).