
 $^{207}\text{Pb}(\alpha, \alpha')$ [1967Al14](#), [1966Al07](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Lalkovski		NDS 112, 707 (2011)	1-Aug-2010

[1966Al07](#), [1967Al14](#): Facility: Univ. Washington cyclotron; Beam: $E(\alpha)=42$ MeV; Target: 1-1.4 mg/cm² enriched to 92.93% in ^{207}Pb ; Detectors: one Li-drifted semiconductor, magnetic spectrometer; Measured: E, $d\sigma/d\Omega(\theta)$, FWHM=90-110 keV; Deduced: level energies, DWBA.

Others: [1997Ru10](#); Giant Resonances (including $\alpha, \alpha'N$): [2007Hu02](#), [2007Hu16](#), [2007Hu20](#), [2005Hu10](#), [2004Hu04](#).

 ^{207}Pb Levels

E(level) [†]	J π [‡]	L [#]	Comments
0	1/2 ⁻		J π : From the Adopted Levels.
2600	5/2 ⁺ , 7/2 ⁺	3	
3400 [@]	9/2 ⁺ , 11/2 ⁺	5 [@]	
3700 [@]	9/2 ⁺ , 11/2 ⁺	5 [@]	
4080	3/2 ⁻ , 5/2 ⁻	2 ^{&}	
4270	7/2 ⁻ , 9/2 ⁻	4 ^{&}	
4800			
5200			
5500			
5800			

[†] From [1966Al07](#).

[‡] From deduced L values, unless otherwise stated.

[#] From DWBA in [1966Al07](#).

[@] Unresolved doublet.

[&] From [1967Al14](#).