^{205}Pb(p,t) 1978Di10,1978El10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 177, 509, 2021	4-Jul-2021

1978Di10: E(p)=34.7 MeV; Target: 78.9% enriched ^{205}Pb; magnetic spectrograph FWHM=12 keV; Measured: dσ/d$\Omega(\theta)$ from 7.5-60° with a 5° step; Deduced: L, J^π, DWBA calc.

1978El10: E(p)=17.5 MeV; Target: 75.8% enriched ^{205}Pb; magnetic spectrograph; Measured: dσ/d$\Omega(\theta)$ from 7.5-92.5° with a 5° step; Deduced: L, J^π, DWBA calc.

^{203}Pb Levels

E(level)‡	J^π‡	L‡	$\sigma(203)/\sigma(202)$†	Comments
0@	5/2−	0	0.60	
126& *12*	1/2−	2		
185 *12*				
595a *12*	3/2−	2	0.13	
775a *12*	1/2−	2	0.04	
819a *12*	7/2−	2	0.25	
834# *10*				
864a *12*	5/2−	2	0.27	
895a *12*	9/2−	2	0.37	
909# *10*				
930 *12*		(4)		
969# *10*				
1032 *12*		(4)		E(level): 1040 keV *10* in 1978El10.
1084 *12*		(2)		E(level): 1093 keV *10* in 1978El10.
1160 *12*	9/2−	2		J^π,L: From 1978El10.
1177# *10*				
1195 *12*		(4)		
1216# *10*				
1262? *12*				E(level): From figure 1 in 1978Di10.

† Ratio of ^{204}Pb(p,t)^{202}Pb and ^{205}Pb(p,t)^{203}Pb cross sections.

‡ From 1978Di10, unless otherwise stated.

From 1978El10, but not reported by 1978Di10.

@ Dominant configuration=$\nu(f^{-1}_{5/2})$.

& Dominant configuration=$\nu(p^{-1}_{1/2})$.

a Dominant configuration=$\nu(f^{-1}_{5/2})\otimes 2^+$.