

$^{196}\text{Pt}(\text{d,p})$ 1978Ya07,1965Mu05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong, Zhou Chunmei		NDS 104, 283 (2005)	1-Jan-2002

Others: 1972MoZA, E(d)=17 MeV; 1984PiZY.

1978Ya07: E=13.5 MeV, measured $d\sigma(E(p),\theta)$, Q; DWBA analysis.

1965Mu05: E=15 MeV, measured $\sigma(E(p),\theta)$.

Q(d,p)=3622 lkeV (2003Au03).

FWHM spectrograph resolution=13-18 keV (1978Ya07).

 ^{197}Pt Levels

E(level) [†]	L [‡]	S [#]	Comments
0.0	1	0.13 [@]	
53.2	3	0.63	
71.9	1	0.14	
98.4	1	0.24	
130.9	(1)	0.08	
398.5	(6)	0.30	
481.6	(1)	0.02 [@]	
501.1			
529.6	3	0.18	
709.0			
747.1	1	0.01	
1109	1	0.07 [@]	
1159			
1214			
1290			
1516			
1634	(1)	0.04	
1706			
1754			
1797	(4)	1.35	L: 4 was deduced in IAR study (1971WiYZ).
1822	(1)	0.09	
2176			
2214			

[†] From 1978Ya07 (ΔE not given by authors). See 1965Mu05 for 18 higher E(levels) between 2.27 and 4.22 MeV.

[‡] From $\sigma(\theta)$ DWBA analysis at 6-7 angles ($\theta=30^\circ-100^\circ$) (1978Ya07).

[#] Value given by $d\sigma/d\Omega=2NS\sigma(\theta)(dw)/(2J+1)$ with $N=1.53$; $J=3/2$ assumed if $L=1$ (except as noted), $J=5/2$ if $L=3$, $J=9/2$ if $L=4$, $J=13/2$ if $L=6$.

[@] $J=1/2$ assumed.