^{196}Pt(p,d) 1983Ve02,1978Be09,1977Sm03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao	NDS 121, 395 (2014)	1-Mar-2014

1983Ve02: multi-J supersymmetry model analysis; comparison with experimental results.
1978Be09: E=26 MeV; FWHM=16 keV; measured σ(E(d),θ); DWBA analysis.
1977Sm03: E=27 MeV; FWHM=13, 30 keV; measured σ(E(d),θ); DWBA calculations.

^{195}Pt Levels

All data are from 1977Sm03, except as noted.

E(level)	J^{π}‡	L@	C^2Sab	Comments
0.0†	$1/2^{-}$ j	1	0.44	configuration=$J^{\pi}<\sigma_1,\sigma_2>-(\tau_1,\tau_2)$= 1/2−<7,0>-(0,0)(1983Ve02).
97† 2	$3/2^{-}$ j	1	0.66	configuration=$J^{\pi}<\sigma_1,\sigma_2>-(\tau_1,\tau_2)$= 3/2−<6,1>-(1,0)(1983Ve02).
130† 2	$5/2^{-}$ j	3	2.00	configuration=$J^{\pi}<\sigma_1,\sigma_2>-(\tau_1,\tau_2)$= 5/2−<6,1>-(1,0)(1983Ve02).
199.5d 25	$(3/2)^{-}$#j	1d	0.70	configuration=$J^{\pi}<\sigma_1,\sigma_2>-(\tau_1,\tau_2)$= 3/2−<6,1>-(1,1)(1983Ve02).
211d 3	$3/2^{-}$ j	1d	0.71	configuration=$J^{\pi}<\sigma_1,\sigma_2>-(\tau_1,\tau_2)$= 3/2−<6,1>-(1,1) (1983Ve02).
239d 3	$5/2^{-}$#	3d	0.44	
256† 3	$13/2^{+}$	6	4.2	
425 4		4	0.21h	L: (4,5) (1978Be09).
450†c 5		&	d	
510† 4		3	0.85f	
550 6		(6)	0.72i	
568 6		&	<0.18dh	
620† 5		3	0.94f	E(level): may correspond to $7/2^{-}$ state at 612.6 in (d,p),(d,t).
678† 7		3	0.13f	
695† 4		3	0.17f	May correspond to $7/2^{-}$ in ^{195}Ir decay and (d,t).
749† 4		1	0.11e	
771d 5		3d	0.26g	
798d 5	$(13/2)^{+}$#	6d	1.88	
817† 5		5	1.15h	E(level): L=(4,5) (1978Be09).
883† 5		3	0.21f	
925d 5		(3)d	0.30g	
930†c 6		1		L: 1 (1978Be09), 1+3 for 925+930 doublet (1977Sm03).
980† 5		3	0.49f	
1016d 5		(3)d	0.08f	
1058† 5		3	0.38f	
1106† 5		1	0.53e	
1151 6		1	0.073e	E(level): may correspond to 1137.5 (1978Be09).
1189† 6		3	0.23f	
1286 6		1	0.11e	
1333c 7		(1+3)		
1384c 8		(1+5)		
1447c 9		(4+1)		
1590 12		&	d	

† Seen also in 1978Be09.

Continued on next page (footnotes at end of table)

^{196}Pt(p,d) 1983Ve02,1978Be09,1977Sm03 (continued)

^{195}Pt Levels (continued)

‡ From Adopted Levels, except as noted.
# From S extractions.
@ From σ(E(d),θ) DWBA fits.
& Angular distribution shows a non-stripping pattern.
a From σ(E(d),θ) DWBA calculations. Results compared with $2C^2S$ from (d,t) (1976Ya07).
b 15% uncertainties.
c Unresolved doublet. See 1977Sm03 for apportioned C^2S.
d From 1978Be09.
e J=3/2 assumed to obtain C^2S.
f J=5/2 assumed to obtain C^2S.
g J=7/2 assumed to obtain C^2S.
h J=9/2 assumed to obtain C^2S.
i J=11/2 assumed to obtain C^2S.
j Analyzed by using multi-J supersymmetry model (1983Ve02).