^{194}Pt(d,p) 1976Ya07

History

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

E(d)=12 MeV; measured σ(E(p),θ) with spectrograph (FWHM=13-17 keV). Rotation-vibration model and DWBA analysis.
Others: 1965Mu05, E(d)=15 MeV; 1972MoZA, E(d)=17 MeV.

^{195}Pt Levels

Nilsson orbital assignments assume oblate ^{195}Pt (β=−0.13).

E(level)	Jπ‡	L@	Sa	E(level)	Jπ‡	L@	Sa
0.0e	1/2−	1	0.27	930 *1*		1	0.03
99.1f *4*	3/2−	1	0.34	1100 *1*		1	0.04
129.7g *5*	5/2−	3	0.76	1159 *1*		(3,4)	
199h *1*	3/2−	&	0.02	1294 *1*		1	0.03
213e *2*	3/2−	&	0.09	1337 *2*			
241e *4*	5/2−#		0.04	1420 *2*		(1)	
260i *1*	13/2+	(6)	0.85	1445 *3*			
433i *3*	9/2+#		0.04	1577 *2*		1	0.01
507h *1*	5/2−,7/2−#	3	0.16b	1681 *3*			
524 *1*		1	0.04	1766 *2*		(1)	
539 *3*				1840 *2*		1	0.04
548 *3*				1872 *2*		(3)	
563†				1899jk *1*	(9/2+)	(3,4)	0.85d
614f *1*	5/2−,7/2−	3	0.10c	1972 *3*		1	0.02
816e *1*							

† Weak peak in (d,p). Energy is rounded-off value from Adopted Levels.
‡ From S and L and prediction of Nilsson model, except as noted.
# From Adopted Levels.
@ From σ(E(p),θ) DWBA fits.
& L=1 for th unresolved 199+213 levels.
a From σ(E(p),θ) DWBA analysis.
b If J=5/2−.
c If J=7/2−.
d If J=9/2.
e Band(A): Kπ=1/2− band. configuration=1/2−[530]. Band members: 1/2− to 7/2−.
f Band(B): Kπ=3/2− band. configuration=3/2−[532]. Band members: 3/2− to 9/2−. The other states are assigned at 389(5/2) and 931(9/2) from ^{195}Ir decay (3.8 h).
g Band(C): Kπ=5/2− band. configuration=5/2−[532]. Band members: 5/2−.
h Band(D): Kπ=3/2−? band. configuration=3/2−[541]?. Band members: 3/2−?.
i Band(E): Kπ=1/2+ decoupled band. configuration=1/2+[600]. Band members: 13/2+.
j Band(F): Kπ=9/2+ band. configuration=9/2+[615]?. Band members: 9/2+.
k Probably corresponds with L=4, ≈1907 state (1972MoZA).

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Band(F): $K^{\pi}=9/2^{+}$ band

$(9/2^{+})$ 1899

Band(A): $K^{\pi}=1/2^{-}$ band

816

Band(B): $K^{\pi}=3/2^{-}$ band

$5/2^{-},7/2^{-}$ 614

Band(D): $K^{\pi}=3/2-?$ band

$5/2^{-},7/2^{-}$ 507

Band(E): $K^{\pi}=1/2^{+}$ decoupled band

$9/2^{+}$ 433

$13/2^{+}$ 260

$5/2^{-}$ 241

$3/2^{-}$ 213

$3/2^{-}$ 199

Band(C): $K^{\pi}=5/2^{-}$ band

$5/2^{-}$ 129.7

$3/2^{-}$ 99.1

$1/2^{-}$ 0.0

$^{195}_{78}Pt_{117}$