^{194}Pt(pol t,α), (t,α)   1983Ci01,1978Ya03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 143, 1 (2017)	31-Mar-2017

1983Ci01: E(t)=17 MeV (typical polarization of≈0.77), θ=10° to 45° (5° intervals); measured E(α) (Q3D mag spect, FWHM=18 keV), differential cross sections, angular distributions, analyzing powers. Compared results with predictions of the supersymmetry scheme in Ir-Pt nuclei.

1981Ci02: preliminary report by 1983Ci01.

1978Ya03: E(t)=15 MeV; measured E(α), σ; DWBA analysis.

^{193}Ir Levels

E(level)[†]	J$^{\pi}$[‡]	S$_{lj}$[#]	Comments
0.0	3/2$^+$	1.6	Ay(30°)=−0.69 3.
73.0[@&]	1/2^{+c}	0.5^e 3	
80.2[@&]	11/2$^-$	4.0^e	
137.5 30	5/2^{+c}	0.12	Ay(30°)=−0.02 11 (1983Ci01).
178 3	3/2$^+$	0.11	Ay(30°)=−0.26 14 (1983Ci01).
298 3	7/2^{-c}	≈0.16	J$^{\pi}$: J=L+1/2; Ay=+0.39 9 (1983Ci01).
357.8[@a]	7/2^{+c}	0.22^e	
361.9[@a]	5/2$^+$	0.27^e	
459 3	3/2$^+$	1.1	Ay(30°)=−0.52 4 (1983Ci01).
558 3	5/2$^+$	1.8	Possibly includes unresolved 557.3 level. Ay(30°)=+0.31 3.
621 3	7/2^{+c}	0.45	J$^{\pi}$: J=L−1/2; Ay(30°)=−0.61 9 (1983Ci01).
694 3	5/2$^+$	0.55	Ay(30°)=+0.30 6 (1983Ci01).
712 3	3/2$^+$	0.33	Ay(30°)=−0.88 5 (1983Ci01).
830 3			Ay(30°)=+0.12 14 (1983Ci01).
849 3	5/2$^+$	0.91	Ay(30°)=+0.35 4 (1983Ci01).
873 3			Ay(30°)=−0.14 14 (1983Ci01).
970 3	(5/2$^+$)^d		
975[b]	11/2$^-$	6.9	Ay(30°)=+0.31 3 (1983Ci01).
1032 10			Ay(30°)=+0.21 17 (1983Ci01).
1063 10			Ay(30°)≤−0.32 (1983Ci01).
1080 5			Ay(30°)=+0.18 7 (1983Ci01).
1146 10			Complex peak; probably includes 1131.2, 1145.7, and 1163 levels seen in ^{193}Os decay (1978Ya03).
1202 10			
1250 10			
1285 10			
1344 10			
1398 10			
1504 5	(3/2$^+$)	0.22^f	Ay(30°)=−0.16 9 (1983Ci01).
1552 10			
1583 10			
1609 5			
1639 5			
1690 5			
1744 5			
1826 5			J$^{\pi}$: J=L+1/2; Ay(30°)=+0.06 4 (1983Ci01).
1866 5			Ay(30°)=+0.18 7 (1983Ci01).
1898 5			Ay(30°)=+0.25 6 (1983Ci01).
1935 5	(5/2$^+$)	0.35^f	Ay(30°)=+0.13 7 (1983Ci01).

[†] From 1978Ya03, unless otherwise noted. Uncertainties are 3 keV for E(level)<1 MeV (5 keV for E(level)>1 MeV) for strongly

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^{194}**Pt(pol t,α), (t,α)**   **1983Ci01,1978Ya03 (continued)**

^{193}Ir Levels (continued)

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populated levels (estimated by evaluator to be those with dσ/dΩ>10).

[‡] From 1983Ci01, based on angular distribution and analyzing power, unless otherwise noted.

[#] From DWBA analysis, with S_{lj}=(dσ/dΩ)exp/(N (dσ/dΩ)(DWBA)) where N=23 (1983Ci01); typical uncertainties are less than 20%.

[@] Rounded-off value from Adopted Levels.

[&] E(level)=79 for unresolved 73.0 and 80.2 levels. Ay(30°)=+0.34 *3* for the doublet.

[a] E(level)=362 for unresolved 357.7 and 361.9 levels. Ay(30°)=+0.07 *7* for the doublet.

[b] From 1983Ci01.

[c] From Adopted Levels.

[d] From 1978Ya03.

[e] Strength extracted by determining individual values consistent with the analyzing powers and cross sections for complex peak.

[f] Strength obtained assuming the J$^\pi$ value indicated.