$^{196}\text{Pt(p,t)}$ 2010Il03,1979De25

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 177, 1 (2021)	3-Sep-2021

2010Il03: E(p)=25 MeV; tritons were analyzed with high-resolution Q3D magnetic spectrograph at TU, Munich facility. Particle identification and position determination made with a 1-meter focal plane detector. FWHM≈6 keV. Spectra recorded at 5°, 17.5° and 30°. DWBA analysis of $\sigma(\theta)$ data for L=0 transfers.

1979De25: E(p)=35 MeV proton beam was produced from the Michigan State University Cyclotron. Tritons were analyzed using Enge split-pole spectrograph with high resolution position-sensitive detectors. FWHM=15 keV. $\sigma(\theta)$ data from 7° to 60° (lab). DWBA calculations. Uncertainty in cross section=15 to 20%. Theoretical interpretation based on IBA model. Cross section data are given at 7° (lab). See also 1980DeZX from the same laboratory.

Others:

1985Mi06: E(p)=51.9 MeV. Transition strength to g.s. measured.

1980Se05: E(p)=51.9 MeV. $\sigma(\theta)$ data from 6° to 70° (lab). Detailed comparison of $\sigma(\theta)$ data for g.s., first 2^+ and first 4^+ state with DWBA and CCBA calculations. Deformation parameters deduced for 2^+ and 4^+ states.

1977Se15: E(p)=26 MeV. Position sensitive detectors and split-pole spectrometer. FWHM=13 keV. $\sigma(\theta)$ data at six angles. DWBA calculations. Relative summed cross sections given for 12 levels. See also 1976VeZY from the same group.

1972Ma15: E(p)=17 MeV. $\sigma(\theta)$ data for five levels.

^{194}Pt Levels

Unidentified contaminants in 2010Il03: 1200.8 4 group: dσ/dΩ=0.6 μb/sr 2 at 5°, 0.2 μb/sr 1 at 17°, 3.7 μb/sr 1 at 30°. 448.7 1 group: dσ/dΩ=15.6 μb/sr 7 at 5°, 2.1 μb/sr 2 at 17°, 5.9 μb/sr 3 at 30°.

Cross sections given under comments are from 2010Il03, unless otherwise noted. Values in 2010Il03 have an additional 10% uncertainty from beam normalization current on the target. Cross sections from 1979De25 at 7° are also given under comments.

E(level)[†]	J^π	L	Enhancement factor[‡]	Comments
0.0	$0^{+\#}$	$0^{\#@}$	3.6	dσ/dΩ(5°)=1761 μb/sr 10, dσ/dΩ(30°)=63 μb/sr 5, dσ/dΩ(17.5°)=112.1 μb/sr 12. dσ/dΩ(7°)=801 μb/sr (1979De25).
328.5 1		$2^{@}$	1.3	β_2=−0.15 (1980Se05, coupled-channel calculations). dσ/dΩ(5°)=104 μb/sr 2, dσ/dΩ(30°)=69.9 μb/sr 10, dσ/dΩ(17.5°)=155.3 μb/sr 15. E(level)=328, dσ/dΩ(7°)=159 μb/sr (1979De25).
621.6 1		$2^{@}$	0.16	dσ/dΩ(5°)=16.7 μb/sr 7, dσ/dΩ(30°)=9.2 μb/sr 4, dσ/dΩ(17.5°)=22.6 μb/sr 5. E(level)=622, dσ/dΩ(7°)=18 μb/sr (1979De25).
811.1 1		$4^{@}$	0.10	β_4=−0.047 (1980Se05, coupled-channel calculations). dσ/dΩ(5°)=12.6 μb/sr 6, dσ/dΩ(30°)=4.0 μb/sr 2, dσ/dΩ(17.5°)=7.5 μb/sr 3. E(level)=811, dσ/dΩ(7°)=9 μb/sr (1979De25).
1229.7 1		$4^{@}$	0.63	dσ/dΩ(5°)=34.4 μb/sr 10, dσ/dΩ(30°)=21.4 μb/sr 5, dσ/dΩ(17.5°)=21.1 μb/sr 5. E(level)=1229, dσ/dΩ(7°)=30 μb/sr (1979De25).
1267.4 1	$0^{+\#}$	$0^{\#@}$	0.08	dσ/dΩ(5°)=25.2 μb/sr 9, dσ/dΩ(30°)=10.3 μb/sr 4, dσ/dΩ(17.5°)=4.9 μb/sr 2. E(level)=1267, dσ/dΩ(7°)=20 μb/sr (1979De25).
1373.7 1		$(4,5)^{@}$	0.26	dσ/dΩ(5°)=2.4 μb/sr 3, dσ/dΩ(30°)=5.0 μb/sr 3, dσ/dΩ(17.5°)=3.3 μb/sr 2. E(level)=1374 1, dσ/dΩ(7°)=4 μb/sr (1979De25).
1411.8 2		$6^{@}$	0.10	dσ/dΩ(5°)=0.7 μb/sr 2, dσ/dΩ(30°)=1.3 μb/sr 1, dσ/dΩ(17.5°)=1.4 μb/sr 1. E(level)=1414 1, dσ/dΩ(7°)=5 μb/sr (1979De25).

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^{196}Pt(p,t)　　**2010Il03,1979De25 (continued)**

^{194}Pt Levels (continued)

E(level)[†]	J$^\pi$	L	Enhancement factor[‡]	Comments
1422.0 2				dσ/dΩ(5°)=1.4 μb/sr 2, dσ/dΩ(30°)=0.4 μb/sr 1, dσ/dΩ(17.5°)=0.8 μb/sr 1.
1432.3 1		3[@]	1.3	dσ/dΩ(5°)=18.9 μb/sr 8, dσ/dΩ(30°)=9.8 μb/sr 4, dσ/dΩ(17.5°)=19.1 μb/sr 5. E(level)=1433, dσ/dΩ(7°)=12 μb/sr (1979De25).
1479.3 2		0[@]	0.03	Accurate $\sigma(\theta)$ in 2010Il03 could not be extracted for 1479.3 and 1485.5 peaks. dσ/dΩ(5°)=0.7 μb/sr 2, dσ/dΩ(30°)=0.2 μb/sr 1, dσ/dΩ(17.5°)=1.6 μb/sr 1. E(level)=1479 2, dσ/dΩ(7°)=3 μb/sr (1979De25).
1485.5 2				Accurate $\sigma(\theta)$ could not be extracted for 1479.3 and 1485.5 peaks. dσ/dΩ(5°)=0.5 μb/sr 2, dσ/dΩ(30°)=1.5 μb/sr 2, dσ/dΩ(17.5°)=0.6 μb/sr 1. E(level)=1486 2, dσ/dΩ(7°)=3 μb/sr (1979De25).
1511.5 1				dσ/dΩ(5°)=2.5 μb/sr 3, dσ/dΩ(30°)=0.8 μb/sr 1, dσ/dΩ(17.5°)=2.3 μb/sr 2. E(level)=1512 3, dσ/dΩ(7°)=2 μb/sr (1979De25).
1547.0 1	0$^+$[#]	0[#@]	0.26	dσ/dΩ(5°)=98.7 μb/sr 17, dσ/dΩ(30°)=36.5 μb/sr 7, dσ/dΩ(17.5°)=17.0 μb/sr 5. E(level)=1547, dσ/dΩ(7°)=46 μb/sr (1979De25).
1670.8 1				dσ/dΩ(5°)=2.2 μb/sr 2, dσ/dΩ(30°)=2.2 μb/sr 1, dσ/dΩ(17.5°)=5.7 μb/sr 3. E(level)=1670 2, dσ/dΩ(7°)=5 μb/sr (1979De25).
1779.0 1				dσ/dΩ(5°)=1.9 μb/sr 2, dσ/dΩ(30°)=1.8 μb/sr 1, dσ/dΩ(17.5°)=4.8 μb/sr 3. E(level)=1778 2, dσ/dΩ(7°)=6 μb/sr (1979De25).
1798.3 3				dσ/dΩ(5°)=0.4 μb/sr 1, dσ/dΩ(30°)=0.7 μb/sr 1, dσ/dΩ(17.5°)=0.9 μb/sr 3.
1816.9 1				dσ/dΩ(5°)=7.2 μb/sr 3, dσ/dΩ(30°)=4.8 μb/sr 2, dσ/dΩ(17.5°)=5.7 μb/sr 3. E(level)=1815 2, dσ/dΩ(7°)=14 μb/sr (1979De25).
1871.6 1				dσ/dΩ(5°)=4.4 μb/sr 3, dσ/dΩ(30°)=7.8 μb/sr 3, dσ/dΩ(17.5°)=16.2 μb/sr 5. E(level)=1870 2 (1979De25).
1893.9 1	0$^+$[#]	0[#]		L=(0) in 1977Se15. dσ/dΩ(5°)=51.4 μb/sr 9, dσ/dΩ(30°)=11.6 μb/sr 3, dσ/dΩ(17.5°)=5.6 μb/sr 3. E(level)=1892 2, dσ/dΩ(7°)=5 μb/sr (1979De25).
1912.9 1		(4)[@]	1.9	dσ/dΩ(5°)=65.8 μb/sr 10, dσ/dΩ(30°)=47.0 μb/sr 7, dσ/dΩ(17.5°)=47.6 μb/sr 8. E(level)=1911 2, dσ/dΩ(7°)=71 μb/sr (1979De25).
1930.5 1				dσ/dΩ(5°)=10.0 μb/sr 6, dσ/dΩ(30°)=8.4 μb/sr 6, dσ/dΩ(17.5°)=25.4 μb/sr 13. E(level)=1931 2, dσ/dΩ(7°)=42 μb/sr (1979De25).
1934.7 1				dσ/dΩ(5°)=13.7 μb/sr 7, dσ/dΩ(30°)=24.8 μb/sr 7, dσ/dΩ(17.5°)=21.3 μb/sr 12.
1948.9 1				dσ/dΩ(5°)=5.6 μb/sr 3, dσ/dΩ(30°)=5.5 μb/sr 2, dσ/dΩ(17.5°)=5.2 μb/sr 3. E(level)=1947 2, dσ/dΩ(7°)=10 μb/sr (1979De25).
1981.3 1				dσ/dΩ(5°)=4.9 μb/sr 3, dσ/dΩ(30°)=2.7 μb/sr 2, dσ/dΩ(17.5°)=4.0 μb/sr 3. E(level)=1980 2 (1979De25).
1991.5 1		(6,7)	0.91,3.6	dσ/dΩ(5°)=7.2 μb/sr 4, dσ/dΩ(30°)=10.6 μb/sr 3, dσ/dΩ(17.5°)=9.4 μb/sr 4. E(level)=1990 2, dσ/dΩ(7°)=9 μb/sr (1979De25).
2003.1 1				dσ/dΩ(5°)=3.9 μb/sr 3, dσ/dΩ(30°)=5.4 μb/sr 2, dσ/dΩ(17.5°)=11.1 μb/sr 4. E(level)=2001 2, dσ/dΩ(7°)=17 μb/sr (1979De25).
2032.8 1				dσ/dΩ(5°)=1.0 μb/sr 2, dσ/dΩ(30°)=2.5 μb/sr 2, dσ/dΩ(17.5°)=2.3 μb/sr 2. E(level)=2031 2, dσ/dΩ(7°)=3 μb/sr (1979De25).
2046.2 3				dσ/dΩ(5°)=0.8 μb/sr 1, dσ/dΩ(30°)=1.1 μb/sr 6, dσ/dΩ(17.5°)=1.2 μb/sr 2.
2051.6 5				dσ/dΩ(5°)=0.3 μb/sr 1, dσ/dΩ(30°)=0.5 μb/sr 6, dσ/dΩ(17.5°)=1.7 μb/sr 2.
2063.3 1				dσ/dΩ(5°)=3.3 μb/sr 3, dσ/dΩ(30°)=2.2 μb/sr 2, dσ/dΩ(17.5°)=1.7 μb/sr 2. E(level)=2062 2, dσ/dΩ(7°)=4 μb/sr (1979De25).
2073.6 2				dσ/dΩ(5°)=1.5 μb/sr 2, dσ/dΩ(30°)=0.8 μb/sr 1, dσ/dΩ(17.5°)=0.8 μb/sr 1.
2085.6 1	0$^+$[#]	0[#]		dσ/dΩ(5°)=3.0 μb/sr 3, dσ/dΩ(30°)=1.4 μb/sr 2, dσ/dΩ(17.5°)=1.2 μb/sr 2.

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<u>^{196}Pt(p,t)　2010Il03,1979De25 (continued)</u>

<u>^{194}Pt Levels (continued)</u>

E(level)[†]	J^π	L	Enhancement factor[‡]	Comments
2107.7 *1*				dσ/dΩ(5°)=5.9 μb/sr *4*, dσ/dΩ(30°)=5.1 μb/sr *3*, dσ/dΩ(17.5°)=6.9 μb/sr *4*. E(level)=2105 *2*, dσ/dΩ(7°)=16 μb/sr (1979De25).
2117.7 *1*				dσ/dΩ(5°)=2.4 μb/sr *2*, dσ/dΩ(30°)=4.0 μb/sr *3*, dσ/dΩ(17.5°)=3.7 μb/sr *3*.
2126.5 *1*		(4)[@]	0.57	dσ/dΩ(5°)=10.6 μb/sr *6*, dσ/dΩ(30°)=13.1 μb/sr *6*, dσ/dΩ(17.5°)=9.8 μb/sr *7*. E(level)=2125 *2*, dσ/dΩ(7°)=37 μb/sr (1979De25).
2130.7 *1*				dσ/dΩ(5°)=7.7 μb/sr *6*, dσ/dΩ(30°)=3.0 μb/sr *5*, dσ/dΩ(17.5°)=8.4 μb/sr *7*.
2140.3 *1*				dσ/dΩ(5°)=9.7 μb/sr *5*, dσ/dΩ(30°)=13.4 μb/sr *5*, dσ/dΩ(17.5°)=23.8 μb/sr *5*. E(level)=2137 *2*, dσ/dΩ(7°)=30 μb/sr (1979De25).
2157.4 *1*		(2)[@]	0.27	dσ/dΩ(5°)=15.1 μb/sr *6*, dσ/dΩ(30°)=11.6 μb/sr *4*, dσ/dΩ(17.5°)=32.3 μb/sr *4*. E(level)=2155 *2*, dσ/dΩ(7°)=38 μb/sr (1979De25).
2163.2 *2*	0^{+}[#]	0[#]		dσ/dΩ(5°)=3.6 μb/sr *4*, dσ/dΩ(30°)=2.0 μb/sr *3*, dσ/dΩ(17.5°)=1.0 μb/sr *4*.
2175.4 *1*				dσ/dΩ(5°)=0.8 μb/sr *2*, dσ/dΩ(30°)=2.5 μb/sr *2*, dσ/dΩ(17.5°)=2.3 μb/sr *2*.
2184.3 *1*				dσ/dΩ(5°)=4.0 μb/sr *3*, dσ/dΩ(30°)=1.8 μb/sr *2*, dσ/dΩ(17.5°)=2.5 μb/sr *2*.
2192.9 *1*				dσ/dΩ(5°)=3.8 μb/sr *3*, dσ/dΩ(30°)=7.1 μb/sr *3*, dσ/dΩ(17.5°)=6.2 μb/sr *3*. E(level)=2189 *2*, dσ/dΩ(7°)=18 μb/sr (1979De25).
2213.8 *1*				dσ/dΩ(5°)=2.0 μb/sr *2*, dσ/dΩ(30°)=1.9 μb/sr *2*, dσ/dΩ(17.5°)=4.5 μb/sr *4*. E(level)=2210 *2*, dσ/dΩ(7°)=6 μb/sr (1979De25).
2219.0 *3*				dσ/dΩ(5°)=0.8 μb/sr *2*, dσ/dΩ(30°)=1.0 μb/sr *2*, dσ/dΩ(17.5°)=0.7 μb/sr *3*.
2228.3 *1*				dσ/dΩ(5°)=2.8 μb/sr *2*, dσ/dΩ(30°)=2.4 μb/sr *2*, dσ/dΩ(17.5°)=2.4 μb/sr *2*. E(level)=2224 *2*, dσ/dΩ(7°)=4 μb/sr (1979De25).
2248.2 *1*		(4)[@]	0.43	dσ/dΩ(5°)=22.8 μb/sr *7*, dσ/dΩ(30°)=13.4 μb/sr *4*, dσ/dΩ(17.5°)=19.6 μb/sr *6*. E(level)=2246 *2*, dσ/dΩ(7°)=18 μb/sr (1979De25).
2275.6 *1*				dσ/dΩ(5°)=3.4 μb/sr *4*, dσ/dΩ(30°)=1.2 μb/sr *1*, dσ/dΩ(17.5°)=2.1 μb/sr *2*. E(level)=2277 *2*, dσ/dΩ(7°)=6 μb/sr (1979De25).
2286.8 *1*				dσ/dΩ(5°)=5.5 μb/sr *5*, dσ/dΩ(30°)=2.4 μb/sr *2*, dσ/dΩ(17.5°)=2.8 μb/sr *2*. E(level)=2284 *2*, dσ/dΩ(7°)=6 μb/sr (1979De25).
2297.2 *1*		(7,8)[@]		dσ/dΩ(5°)=3.1 μb/sr *4*, dσ/dΩ(30°)=2.5 μb/sr *2*, dσ/dΩ(17.5°)=6.6 μb/sr *4*. E(level)=2296 *2*, dσ/dΩ(7°)=10 μb/sr (1979De25).
2309.0 *1*				dσ/dΩ(5°)=1.8 μb/sr *3*, dσ/dΩ(30°)=3.5 μb/sr *2*, dσ/dΩ(17.5°)=2.5 μb/sr *2*.
2324.1 *1*				dσ/dΩ(5°)=1.5 μb/sr *2*, dσ/dΩ(30°)=1.4 μb/sr *2*, dσ/dΩ(17.5°)=3.5 μb/sr *3*.
2356.3 *1*		(4)[@]	0.87	dσ/dΩ(5°)=24.9 μb/sr *9*, dσ/dΩ(30°)=22.1 μb/sr *7*, dσ/dΩ(17.5°)=20.1 μb/sr *7*. E(level)=2353 *2*, dσ/dΩ(7°)=37 μb/sr (1979De25). A level at 2356.06 keV in the Adopted Levels is firmly assigned 0^{+}. The level in (p,t) with L=(4) in 1979De25 and non-zero L value in 2010Il03 (see caption of Fig. 4 in this paper) suggest a separate level at this energy.

^{196}Pt(p,t) **2010Il03,1979De25 (continued)**

^{194}Pt Levels (continued)

E(level)[†]	J[π]	L	Enhancement factor[‡]	Comments
2369.9 *1*				dσ/dΩ(5°)=2.8 μb/sr *3*, dσ/dΩ(30°)=2.8 μb/sr *3*, dσ/dΩ(17.5°)=2.8 μb/sr *3*.
2385.2 *1*				dσ/dΩ(5°)=5.1 μb/sr *5*, dσ/dΩ(30°)=3.3 μb/sr *3*, dσ/dΩ(17.5°)=4.0 μb/sr *4*.
2395.3 *5*				dσ/dΩ(5°)=7.7 μb/sr *6*, dσ/dΩ(30°)=8.0 μb/sr *4*, dσ/dΩ(17.5°)=14.4 μb/sr *7*.
2407.8 *1*				dσ/dΩ(5°)=5.1 μb/sr *5*, dσ/dΩ(30°)=6.4 μb/sr *4*, dσ/dΩ(17.5°)=13.7 μb/sr *7*.
2429.5 *1*				dσ/dΩ(5°)=1.1 μb/sr *2*, dσ/dΩ(30°)=2.5 μb/sr *3*, dσ/dΩ(17.5°)=2.0 μb/sr *3*.
2444.5 *1*				dσ/dΩ(5°)=2.3 μb/sr *3*, dσ/dΩ(30°)=2.2 μb/sr *2*, dσ/dΩ(17.5°)=2.2 μb/sr *3*.
2457.3 *1*				dσ/dΩ(5°)=2.5 μb/sr *3*, dσ/dΩ(30°)=2.5 μb/sr *2*, dσ/dΩ(17.5°)=2.1 μb/sr *2*.
2473.3 *3*				dσ/dΩ(5°)=0.6 μb/sr *2*, dσ/dΩ(30°)=0.5 μb/sr *1*, dσ/dΩ(17.5°)=0.4 μb/sr *1*.
2481.9 *1*				dσ/dΩ(5°)=2.2 μb/sr *3*, dσ/dΩ(30°)=1.4 μb/sr *2*, dσ/dΩ(17.5°)=1.8 μb/sr *2*.
2500.9 *2*				dσ/dΩ(5°)=1.6 μb/sr *3*, dσ/dΩ(30°)=1.7 μb/sr *2*, dσ/dΩ(17.5°)=1.8 μb/sr *2*.
2511.0 *1*	0+[#]	0[#]		dσ/dΩ(5°)=5.5 μb/sr *5*, dσ/dΩ(30°)=3.2 μb/sr *3*, dσ/dΩ(17.5°)=2.3 μb/sr *3*.
2517.6 *2*				dσ/dΩ(5°)=1.4 μb/sr *3*, dσ/dΩ(30°)=1.7 μb/sr *2*, dσ/dΩ(17.5°)=1.3 μb/sr *2*.
2528.1 *1*		(2)[@]	0.33	dσ/dΩ(5°)=6.9 μb/sr *5*, dσ/dΩ(30°)=7.7 μb/sr *6*, dσ/dΩ(17.5°)=18.4 μb/sr *7*. E(level)=2532 *3*, dσ/dΩ(7°)=28 μb/sr (1979De25).
2544.3 *1*				dσ/dΩ(5°)=5.9 μb/sr *5*, dσ/dΩ(30°)=6.2 μb/sr *3*, dσ/dΩ(17.5°)=7.1 μb/sr *5*.
2554.1 *1*				dσ/dΩ(5°)=3.6 μb/sr *4*, dσ/dΩ(30°)=6.6 μb/sr *4*, dσ/dΩ(17.5°)=6.8 μb/sr *5*.
2557.8 *2*				dσ/dΩ(5°)=2.6 μb/sr *3*, dσ/dΩ(30°)=1.9 μb/sr *3*, dσ/dΩ(17.5°)=4.1 μb/sr *4*.
2569.9 *1*		(6)[@]	0.56	dσ/dΩ(5°)=6.7 μb/sr *5*, dσ/dΩ(30°)=8.5 μb/sr *4*, dσ/dΩ(17.5°)=8.8 μb/sr *6*. E(level)=2566 *3*, dσ/dΩ(10°)=11 μb/sr (1979De25).
2576.7 *1*				dσ/dΩ(5°)=4.4 μb/sr *4*, dσ/dΩ(30°)=7.5 μb/sr *4*, dσ/dΩ(17.5°)=8.2 μb/sr *6*. E(level)=2580 *3*, dσ/dΩ(7°)=27 μb/sr (1979De25).
2586.6 *1*				dσ/dΩ(5°)=8.5 μb/sr *8*, dσ/dΩ(30°)=7.1 μb/sr *4*, dσ/dΩ(17.5°)=8.2 μb/sr *5*.
2599.5 *1*				dσ/dΩ(5°)=2.0 μb/sr *3*, dσ/dΩ(30°)=2.0 μb/sr *2*, dσ/dΩ(17.5°)=3.6 μb/sr *3*. E(level)=2595 *3*, dσ/dΩ(7°)=16 μb/sr (1979De25).
2607.9 *3*				dσ/dΩ(5°)=0.7 μb/sr *2*, dσ/dΩ(30°)=0.8 μb/sr *1*, dσ/dΩ(17.5°)=0.5 μb/sr *2*.
2616.4 *1*				dσ/dΩ(5°)=3.6 μb/sr *4*, dσ/dΩ(30°)=3.1 μb/sr *2*, dσ/dΩ(17.5°)=8.1 μb/sr *4*.
2630.6 *1*				dσ/dΩ(5°)=11.4 μb/sr *7*, dσ/dΩ(30°)=13.4 μb/sr *5*, dσ/dΩ(17.5°)=14.0 μb/sr *7*.
2640.0 *1*		(4)[@]	0.61	dσ/dΩ(5°)=3.9 μb/sr *4*, dσ/dΩ(30°)=3.6 μb/sr *3*, dσ/dΩ(17.5°)=3.4 μb/sr *4*. E(level)=2638 *3*, dσ/dΩ(7°)=29 μb/sr (1979De25).
2660.5 *2*				dσ/dΩ(5°)=0.8 μb/sr *2*, dσ/dΩ(30°)=0.7 μb/sr *1*, dσ/dΩ(17.5°)=1.1 μb/sr *3*.
2676.4 *1*				dσ/dΩ(5°)=3.9 μb/sr *4*, dσ/dΩ(30°)=3.9 μb/sr *3*, dσ/dΩ(17.5°)=5.5 μb/sr *7*.
2685.7 *1*				dσ/dΩ(5°)=2.6 μb/sr *4*, dσ/dΩ(30°)=2.9 μb/sr *3*, dσ/dΩ(17.5°)=2.6 μb/sr *5*.
2695.3 *1*				dσ/dΩ(5°)=1.8 μb/sr *3*, dσ/dΩ(30°)=4.2 μb/sr *4*, dσ/dΩ(17.5°)=3.1 μb/sr *5*.
2703.1 *2*		(6)[@]	0.61	dσ/dΩ(5°)=1.3 μb/sr *3*, dσ/dΩ(30°)=1.0 μb/sr *2*, dσ/dΩ(17.5°)=1.1 μb/sr *3*. E(level)=2700 *3*, dσ/dΩ(7°)=18 μb/sr (1979De25).
2710.5 *2*				dσ/dΩ(5°)=1.3 μb/sr *3*, dσ/dΩ(30°)=1.0 μb/sr *2*, dσ/dΩ(17.5°)=1.6 μb/sr *4*.
2717.9 *2*				dσ/dΩ(5°)=2.7 μb/sr *5*, dσ/dΩ(30°)=1.8 μb/sr *4*, dσ/dΩ(17.5°)=2.8 μb/sr *8*.
2721.7 *1*				dσ/dΩ(5°)=3.9 μb/sr *5*, dσ/dΩ(30°)=5.0 μb/sr *5*, dσ/dΩ(17.5°)=3.6 μb/sr *9*.
2739.7 *1*				dσ/dΩ(5°)=2.0 μb/sr *3*, dσ/dΩ(30°)=6.9 μb/sr *5*, dσ/dΩ(17.5°)=4.5 μb/sr *6*.
2747.0 *1*				dσ/dΩ(5°)=8.5 μb/sr *6*, dσ/dΩ(30°)=10.1 μb/sr *5*, dσ/dΩ(17.5°)=9.0 μb/sr *7*.
2755.4 *1*				dσ/dΩ(5°)=3.1 μb/sr *4*, dσ/dΩ(30°)=3.5 μb/sr *4*, dσ/dΩ(17.5°)=3.1 μb/sr *6*.

^{196}**Pt(p,t)**   **2010Il03,1979De25 (continued)**

^{194}Pt Levels (continued)

E(level)[†]	J$^\pi$	L	Comments
			E(level)=2757 3, dσ/dΩ(7°)=30 μb/sr (1979De25).
2769.9 2	(0$^+$)[#]	(0)[#]	dσ/dΩ(5°)=2.7 μb/sr 4, dσ/dΩ(30°)=2.3 μb/sr 4, dσ/dΩ(17.5°)=1.5 μb/sr 13.
2771.9 4			dσ/dΩ(5°)=0.8 μb/sr 3, dσ/dΩ(30°)=2.3 μb/sr 4,
2795.1 2			dσ/dΩ(5°)=2.0 μb/sr 4, dσ/dΩ(30°)=1.4 μb/sr 4, dσ/dΩ(17.5°)=2.4 μb/sr 13.
2799.6 1			dσ/dΩ(5°)=4.4 μb/sr 5, dσ/dΩ(30°)=5.4 μb/sr 6, dσ/dΩ(17.5°)=8.0 μb/sr 8.
2805.3 2			dσ/dΩ(5°)=2.1 μb/sr 3, dσ/dΩ(30°)=3.0 μb/sr 5, dσ/dΩ(17.5°)=3.1 μb/sr 6.
2817.3 2			dσ/dΩ(5°)=1.2 μb/sr 2, dσ/dΩ(17.5°)=2.7 μb/sr 4.
			E(level)=2815 3, dσ/dΩ(7°)=12 μb/sr (1979De25).
2842.2 1			dσ/dΩ(5°)=3.9 μb/sr 5, dσ/dΩ(30°)=2.9 μb/sr 4, dσ/dΩ(17.5°)=3.1 μb/sr 6.
			E(level)=2840 3, dσ/dΩ(7°)=7 μb/sr (1979De25).
2850.2 1			dσ/dΩ(5°)=2.4 μb/sr 5, dσ/dΩ(30°)=4.9 μb/sr 6, dσ/dΩ(17.5°)=5.0 μb/sr 8.
2855.8 1			dσ/dΩ(5°)=2.6 μb/sr 5, dσ/dΩ(30°)=4.2 μb/sr 6, dσ/dΩ(17.5°)=4.7 μb/sr 8.
2862.7 1			dσ/dΩ(5°)=1.8 μb/sr 5, dσ/dΩ(30°)=2.9 μb/sr 5, dσ/dΩ(17.5°)=5.4 μb/sr 8.
2878.7 2			dσ/dΩ(5°)=2.1 μb/sr 6, dσ/dΩ(17.5°)=2.0 μb/sr 7.
			E(level)=2871 3, dσ/dΩ(7°)=13 μb/sr (1979De25).
2882.4 1			dσ/dΩ(5°)=3.8 μb/sr 7, dσ/dΩ(30°)=2.4 μb/sr 7, dσ/dΩ(17.5°)=4.2 μb/sr 8.
2895 3			E(level): from 1979De25.
			dσ/dΩ(7°)=7 μb/sr (1979De25).

[†] From 2010Il03, unless otherwise noted. Values from 1979De25 are given under comments.

[‡] The enhancement factors from 1979De25 are based on the following configurations for the neutron pair: p$_{3/2}$ for L=0, (p$_{3/2}$,f$_{7/2}$) for L=2, (i$_{13/2}$,f$_{7/2}$) for L=3, (f$_{5/2}$,p$_{3/2}$) for L=4, (p$_{3/2}$,i$_{13/2}$) for L=5, (f$_{5/2}$,f$_{7/2}$) for L=6 and (p$_{1/2}$,i$_{13/2}$) for L=7.

[#] From L=0 in 2010Il03.

[@] From 1979De25, based on comparison with DWBA calculations and on empirical shapes of $\sigma(\theta)$ distributions.