

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

$Q(\beta^-) = -5583$  18;  $S(n) = 7675$  20;  $S(p) = 4010$  26;  $Q(\alpha) = 4822$  9 [2012Wa38](#)  
 $Q(\epsilon\text{p}) = 1548$  27 ([2012Wa38](#)).

For hfs and isotope shift measurements, see [1992Hi07](#), [1999Le52](#), [1999Ro28](#), [1999Sa40](#).

For discussion of level-energy systematics for N=105 isotones, see [2013Sa43](#).

 $^{183}\text{Pt}$  LevelsCross Reference (XREF) Flags

<b>A</b>	$^{183}\text{Pt}$ IT decay	<b>D</b>	$^{187}\text{Hg}$ $\alpha$ decay (1.9 min)
<b>B</b>	$^{183}\text{Au}$ $\epsilon$ decay	<b>E</b>	(HI,xn $\gamma$ )
<b>C</b>	$^{187}\text{Hg}$ $\alpha$ decay (2.4 min)		

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	T <sub>1/2</sub>	XREF	Comments
0.0 <sup>e</sup>	1/2 <sup>-f</sup>	6.5 min 10	<b>AB E</b>	$\% \epsilon + \% \beta^+ = 100$ ; $\% \alpha = 0.0096$ 5 ( <a href="#">1995Bi01</a> ) $\mu = +0.502$ 5 ( <a href="#">1999Le52</a> , <a href="#">1999Ro28</a> , <a href="#">1999Sa40</a> , <a href="#">2000SaZZ</a> ) $\mu$ : from LASER resonance ionization mass spectroscopy; $^{195}\text{Pt}$ reference standard. others: +0.51 3 ( <a href="#">1990Hi08</a> ), +0.52 3 ( <a href="#">1992Hi07</a> ). $\langle r^2 \rangle^{1/2}(\text{charge}) = 5.403$ fm 4 ( <a href="#">2004An14</a> ). $\Delta \langle r^2 \rangle (^{194}\text{Pt}, ^{183}\text{Pt}) = -0.216$ 8 ( <a href="#">1999Le52</a> , <a href="#">1999Ro28</a> , <a href="#">1999Sa40</a> ). Other: -0.17 5 ( <a href="#">1992Hi07</a> ). $\% \alpha$ : from <a href="#">1995Bi01</a> ; based on comparison of $I_\alpha$ with intensity of $^{183}\text{Pt}$ $\epsilon + \beta^+$ decay, taking into account the 43 s component of that decay. other $\% \alpha$ : 0.0013 ( <a href="#">1963Gr08</a> ); expected to be correct within a factor of three, but authors May not have corrected for possible contribution to $\epsilon + \beta^+$ intensity from 43 s isomer ( <a href="#">1995Bi01</a> ). $\mu$ : from LASER spectroscopy ( <a href="#">1999Le52</a> , <a href="#">1999Ro28</a> , <a href="#">1999Sa40</a> ), relative to $\mu(^{195}\text{Pt})$ . Other: +0.521 27 from resonance ionization mass spectroscopy and pulsed-LASER induced desorption ( <a href="#">1992Hi07</a> ). $J^\pi$ : J=1/2 from hfs spectrum ( <a href="#">1992Hi07</a> ); $\mu$ consistent with that calculated for 1/2 <sup>-</sup> 1/2[521] level ( <a href="#">1999Le52</a> , <a href="#">1999Ro28</a> , <a href="#">1999Sa40</a> ). bandhead for band with decoupling parameter a=+0.85, typical of $\nu$ 1/2[521] configuration In this mass region; T <sub>1/2</sub> : from <a href="#">1963Gr08</a> . Other value: 7.0 min 25 ( <a href="#">1966Si08</a> ).
34.74 <sup>&amp;</sup> 7	7/2 <sup>-</sup>	43 s 5	<b>AB E</b>	$\% \epsilon + \% \beta^+ = 96.9$ 8; $\% \alpha < 3 \times 10^{-4}$ ; $\% \text{IT} = 3.1$ 8 ( <a href="#">1998Ro32</a> ) $\mu = 0.782$ 14 ( <a href="#">1999Le52</a> , <a href="#">1999Ro28</a> , <a href="#">1999Sa40</a> , <a href="#">2000SaZZ</a> ) $Q = 3.4$ 3 ( <a href="#">1999Le52</a> , <a href="#">1999Ro28</a> , <a href="#">1999Sa40</a> ) $\mu, Q$ : from LASER resonance ionization mass spectroscopy. Sternheimer correction applied to Q. $\mu$ : $^{195}\text{Pt}$ reference standard. others: 0.96 8 ( <a href="#">1992Ro21</a> ), 1.03 8 ( <a href="#">1992St16</a> ); from static nuclear orientation with $\gamma$ detection. other Q: +3.7 3 ( <a href="#">2000SaZZ</a> ). $\Delta \langle r^2 \rangle (^{194}\text{Pt}, ^{183}\text{Pt}) = -0.106$ 8 ( <a href="#">1999Le52</a> , <a href="#">1999Ro28</a> , <a href="#">1999Sa40</a> ). $\% \alpha$ : $\alpha$ decay not observed. an $\alpha$ branch to the 7/2 <sup>-</sup> 7/2[514] $^{179}\text{Os}$ level At 145.4 keV would have HF<1, unless $\% \alpha < 3 \times 10^{-4}$ . $\mu, Q$ : from LASER spectroscopy ( <a href="#">1999Le52</a> , <a href="#">1999Ro28</a> , <a href="#">1999Sa40</a> ); $\mu$ relative to $\mu(^{195}\text{Pt})$ , sternheimer correction applied. T <sub>1/2</sub> : from <a href="#">1979Vi02</a> . $J^\pi$ : M3 35 $\gamma$ to 1/2 <sup>-</sup> g.s..
84.73 <sup>e</sup> 7	3/2 <sup>-f</sup>		<b>B</b>	$J^\pi$ : E2 85 $\gamma$ to 1/2 <sup>-</sup> g.s.; g.s. band member.
96.15 <sup>e</sup> 7	5/2 <sup>-f</sup>		<b>B E</b>	$J^\pi$ : E2 96 $\gamma$ to 1/2 <sup>-</sup> g.s.; g.s. band member.

Continued on next page (footnotes at end of table)

**Adopted Levels, Gammas (continued)**

$^{183}\text{Pt}$ Levels (continued)					
E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	T <sub>1/2</sub>	XREF	Comments	
149.91 & 10	(9/2) <sup>-</sup>		B E	J <sup>π</sup> : M1+E2 115γ to 7/2 <sup>-</sup> 35; band assignment.	
195.90 @ 10	(9/2) <sup>+</sup>	>150 ns	B E	J <sup>π</sup> : E1 from (5/2,7/2) <sup>-</sup> . T <sub>1/2</sub> : from (HI,xnγ).	
243.58 @ 14	(11/2) <sup>+</sup>		B E	J <sup>π</sup> : M1(+E2) 48γ to (9/2) <sup>+</sup> 196.	
289.74 & 11	(11/2) <sup>-</sup>		B E	J <sup>π</sup> : D+Q intraband 140γ to (9/2) <sup>-</sup> 150; intraband 255γ to 7/2 <sup>-</sup> 35.	
298.87 <sup>e</sup> 8	7/2 <sup>-f</sup>		B	J <sup>π</sup> : E2 214γ to 3/2 <sup>-</sup> 85; g.s. band member.	
314.23 <sup>e</sup> 10	9/2 <sup>-f</sup>		B E	J <sup>π</sup> : stretched E2 218γ to 5/2 <sup>-</sup> 96; g.s. band member.	
316.9 @ 7	(13/2) <sup>+</sup>		E	J <sup>π</sup> : unhindered α-decay from 13/2 <sup>(+)</sup> 57 level in <sup>187</sup> Hg; gammas to (11/2) <sup>+</sup> and to (9/2) <sup>+</sup> .	
347.72 <sup>b</sup> 8	(5/2) <sup>-</sup>		B	J <sup>π</sup> : M1+E2 313γ to 7/2 <sup>-</sup> 35.	
373.23 <sup>a</sup> 9	(7/2) <sup>-</sup>		B	J <sup>π</sup> : E2+M1 339γ to 7/2 <sup>-</sup> 35.	
375.44# 12	(7/2) <sup>+</sup>		B	J <sup>π</sup> : M1 180γ to (9/2) <sup>+</sup> 196.	
449.4 & 7	(13/2) <sup>-</sup>		E	J <sup>π</sup> : E2+M1 160γ to (11/2) <sup>-</sup> 290.	
471.66 <sup>b</sup> 10	(7/2) <sup>-</sup>		B	J <sup>π</sup> : E2+M1 437γ to 7/2 <sup>-</sup> 35.	
477.7 @ 8	(15/2) <sup>+</sup>		E	J <sup>π</sup> : E2+M1 160γ to (13/2) <sup>+</sup> 317; stretched E2 235γ to (11/2) <sup>+</sup> 243.	
531.60# 12	(9/2) <sup>+</sup>		B	J <sup>π</sup> : E1 from (5/2,7/2) <sup>-</sup> .	
535.91 <sup>a</sup> 11	(9/2) <sup>-</sup>		B		
556.61 <sup>c</sup> 13	3/2 <sup>-</sup>		B	J <sup>π</sup> : M1+E2 557γ to 1/2 <sup>-</sup> g.s..	
568.79 <sup>d</sup> 12	(1/2) <sup>-</sup>		B	J <sup>π</sup> : M1+E2 484γ to 3/2 <sup>-</sup> 85.	
590.1 @ 9	(17/2) <sup>+</sup>		E		
611.47 22			B		
613.16 21	(3/2,5/2) <sup>-</sup>		B	J <sup>π</sup> : M1+E2 517γ to 5/2 <sup>-</sup> 96, possible (E2) 613γ to 1/2 <sup>-</sup> g.s..	
617.67 <sup>c</sup> 16	(5/2) <sup>-</sup>		B	J <sup>π</sup> : E2(+M1) 533γ to 3/2 <sup>-</sup> 85; possible M1+E2 583γ to 7/2 <sup>-</sup> 35; possible 303γ to 9/2 <sup>-</sup> 314.	
627.2 <sup>e</sup> 10	13/2 <sup>-f</sup>		E	XREF: E(627.0). J <sup>π</sup> : 313γ to 9/2 <sup>-</sup> 314; member of g.s. band.	
629.2 & 8	(15/2) <sup>-</sup>		E	J <sup>π</sup> : intraband Q 339γ to (11/2) <sup>-</sup> 289; intraband 180γ to (13/2) <sup>-</sup> 449.	
636.37 17	(7/2 <sup>+</sup> ,9/2,11/2 <sup>-</sup> )		B	J <sup>π</sup> : 165γ to (7/2) <sup>-</sup> 472; 393γ to (11/2) <sup>+</sup> 244; weak branch from (5/2) <sup>-</sup> In ε decay (log ft≈7.2) makes J>7/2 unlikely.	
650.23 <sup>d</sup> 11	(3/2) <sup>-</sup>		B	J <sup>π</sup> : E2+M1 566γ to 3/2 <sup>-</sup> 85; log ft=6.6 from (5/2) <sup>-</sup> In ε decay; band assignment.	
678.45 16	(3/2,5/2) <sup>-</sup>		B	J <sup>π</sup> : E2 594γ to 5/2 <sup>-</sup> , uncertain γ to 1/2 <sup>-</sup> .	
692.99 13	(3/2,5/2) <sup>-</sup>		B	J <sup>π</sup> : E2+M1 597γ to 5/2 <sup>-</sup> , uncertain 693γ to 1/2 <sup>-</sup> g.s.; log ft=6.2 from (5/2) <sup>-</sup> In ε decay; 394γ to 7/2 <sup>-</sup> 299.	
702.44 <sup>c</sup> 14	(7/2) <sup>-</sup>		B	J <sup>π</sup> : E2+M1 607γ to 5/2 <sup>-</sup> . Note that if the 702γ were to deexcite this level, as suggested by 1989Ro21, this band assignment would be incorrect.	
730.92 18	(≥5/2) <sup>+</sup>		B	J <sup>π</sup> : E2 535γ to (9/2) <sup>+</sup> 196.	
762.22 <sup>d</sup> 12	(5/2) <sup>-</sup>		B	J <sup>π</sup> : M1+E2 463γ to 7/2 <sup>-</sup> 299; 678γ to 3/2 <sup>-</sup> 85; 613γ to (9/2) <sup>-</sup> 150; band assignment.	
801.90 13	(3/2,5/2,7/2) <sup>-</sup>		B	J <sup>π</sup> : E2 717γ to 3/2 <sup>-</sup> 85; 429γ to (7/2) <sup>-</sup> 373.	
819.90 17	(7/2,9/2) <sup>-</sup>		B	J <sup>π</sup> : M1+E2 506γ to 7/2 <sup>-</sup> 299; M1+E2 521γ to 9/2 <sup>-</sup> 314. log ft=6.7 from (5/2) <sup>-</sup> In ε decay for weak branch makes J=9/2 unlikely.	
824.90 16	(5/2,7/2,9/2) <sup>-</sup>		B	J <sup>π</sup> : M1+E2 526γ to 7/2 <sup>-</sup> 299; 477γ to (5/2) <sup>-</sup> 348. log ft=6.8 from (5/2) <sup>-</sup> In ε decay for weak branch makes J=9/2 unlikely.	
825.3 & 10	(17/2) <sup>-</sup>		E	J <sup>π</sup> : intraband gammas to (13/2) <sup>-</sup> and to (15/2) <sup>-</sup> .	
834.2 @ 10	(19/2) <sup>+</sup>		E	J <sup>π</sup> : intraband D+Q 244γ to (17/2) <sup>+</sup> 590; intraband Q 356γ to (15/2) <sup>+</sup> 478.	
835.31 16	(3/2,5/2) <sup>-</sup>		B E	J <sup>π</sup> : M1+E2 739γ to 5/2 <sup>-</sup> 96; possible 836γ to 1/2 <sup>-</sup> g.s.; 536γ to 7/2 <sup>-</sup> 299.	
847.33 23	(7/2,9/2,11/2) <sup>-</sup>		B	J <sup>π</sup> : M1+E2 533γ to 9/2 <sup>-</sup> 314.	
879.74 16	(7/2 <sup>-</sup> ,9/2 <sup>-</sup> )		B	J <sup>π</sup> : (E2+M1) 730γ to (9/2) <sup>-</sup> 150; possible E2(+M1) 845γ to 7/2 <sup>-</sup> 35.	
919.02 22	(3/2,5/2,7/2) <sup>-</sup>		B	J <sup>π</sup> : E2+M1 571γ to (5/2) <sup>-</sup> 348.	

Continued on next page (footnotes at end of table)

**Adopted Levels, Gammas (continued)**

<sup>183</sup>Pt Levels (continued)

E(level) <sup>†</sup>	J <sup>π‡</sup>	XREF	Comments
930.64 16	-	B	J <sup>π</sup> : E2+M1 1010γ from π=- 1941 level.
931.88 17	(7/2,9/2) <sup>-</sup>	B	J <sup>π</sup> : M1+E2 617γ to 9/2 <sup>-</sup> 314; 571γ to (7/2) <sup>+</sup> 375.
963.80 17	(7/2,9/2,11/2) <sup>-</sup>	B E	J <sup>π</sup> : M1(+E2) 650γ to 9/2 <sup>-</sup> 314; 665γ to 7/2 <sup>-</sup> 299.
966.2@ 11	(21/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband D+Q 132γ to (19/2 <sup>+</sup> ) 834; (E2) 376γ to (17/2 <sup>+</sup> ) 590.
978.62 22	(7/2) <sup>-</sup>	B	J <sup>π</sup> : M1+E2 829γ to (9/2) <sup>-</sup> 150; 631γ to (5/2) <sup>-</sup> 348; M1 944γ to 7/2 <sup>-</sup> 35; log ft=6.9 for weak branch from (5/2) <sup>-</sup> In ε decay.
989.94 23	( <sup>+</sup> )	B	J <sup>π</sup> : (E2) 615γ to (7/2) <sup>+</sup> 375 allows J=(3/2 to 11/2); log ft=7.2 for weak branch from (5/2) <sup>-</sup> In ε decay favors J≤(7/2).
998.72 18	(≥7/2)	B	J <sup>π</sup> : 623γ to (7/2) <sup>+</sup> 375; 755γ to (11/2) <sup>+</sup> 244 suggests J <sup>π</sup> =(7/2 <sup>+</sup> ,9/2, 11/2 <sup>+</sup> ). log ft=7.0 for weak branch from (5/2) <sup>-</sup> In ε decay favors J=(7/2).
1011.9 <sup>e</sup> 15	17/2 <sup>-f</sup>	E	J <sup>π</sup> : stretched Q 385γ to 13/2 <sup>-</sup> 627; g.s. band member.
1024.53 22	(5/2,7/2,9/2) <sup>-</sup>	B	J <sup>π</sup> : M1(+E2) 651γ to (7/2) <sup>-</sup> 373.
1035.11 16	(7/2,9/2) <sup>-</sup>	B	J <sup>π</sup> : M1+E2 736γ to 7/2 <sup>-</sup> 299; 746γ to (11/2) <sup>-</sup> 290.
1038.2& 13	(19/2) <sup>-</sup>	E	J <sup>π</sup> : intraband stretched Q 409γ to (15/2) <sup>-</sup> 629 In (HI,xny).
1058.03 22		B	J <sup>π</sup> : 685γ to (7/2) <sup>-</sup> 373 implies J=(3/2 to 11/2); log ft=7.2 from (5/2) <sup>-</sup> inconsistent with J=9/2, 11/2, but branching May be too weak to be reliable.
1071.54 19	(5/2,7/2) <sup>-</sup>	B	J <sup>π</sup> : E2(+M1) 1037γ to 7/2 <sup>-</sup> 35; 696γ to (7/2) <sup>+</sup> 375; log ft=6.5 from (5/2) <sup>-</sup> In ε decay.
1126.47 17		B	J <sup>π</sup> : 753γ to (7/2) <sup>-</sup> 373, 595γ to (9/2) <sup>+</sup> 532 suggests J <sup>π</sup> =(5/2 <sup>+</sup> , 7/2,9/2,11/2 <sup>-</sup> ); log ft=6.9 from (5/2) <sup>-</sup> for weak branch In ε decay disfavors J=(9/2,11/2).
1263.0& 14	(21/2) <sup>-</sup>	E	J <sup>π</sup> : intraband 438γ to (17/2) <sup>-</sup> 825.
1280.1@ 12	(23/2 <sup>+</sup> )	E	
1421.3@ 13	(25/2 <sup>+</sup> )	E	
1444.0 <sup>e</sup> 18	21/2 <sup>-f</sup>	E	
1501.3& 16	(23/2) <sup>-</sup>	E	
1748.4& 17	(25/2) <sup>-</sup>	E	
1790.9@ 14	(27/2 <sup>+</sup> )	E	
1810.8 4		B	J <sup>π</sup> : 1512γ to 7/2 <sup>-</sup> 299.
1814.5 3	(3/2,5/2,7/2) <sup>-</sup>	B	J <sup>π</sup> : M1(+E2) 1467γ to (5/2) <sup>-</sup> 348.
1844.4 3	-	B	J <sup>π</sup> : E2(+M1) 1497γ to (5/2) <sup>-</sup> 348.
1847.8 4		B	J <sup>π</sup> : 1698γ to (9/2) <sup>-</sup> 150, possible 1813γ to 7/2 <sup>-</sup> 35 imply J <sup>π</sup> =(5/2 <sup>-</sup> ,7/2,9/2,11/2 <sup>-</sup> ). log ft=6.5 for weak branch from (5/2) <sup>-</sup> In decay renders J=9/2 or 11/2 very unlikely.
1884.3 3	(3/2,5/2,7/2) <sup>+</sup>	B	J <sup>π</sup> : E1 1537γ to (5/2) <sup>-</sup> 348.
1892.4 3	(≤7/2)	B	J <sup>π</sup> : 1808γ to 3/2 <sup>-</sup> 85; log ft=6.5 from (5/2) <sup>-</sup> In ε decay, but branch is weak.
1900.6 <sup>e</sup> 20	25/2 <sup>-f</sup>	E	J <sup>π</sup> : intraband stretched Q 457γ to 21/2 <sup>-</sup> 1444.
1907.6 4	(5/2,7/2) <sup>-</sup>	B	J <sup>π</sup> : E1 1532γ to (7/2) <sup>+</sup> 375; log ft=5.6 from (5/2) <sup>-</sup> In ε decay.
1913.03 23	(5/2 <sup>-</sup> ,7/2 <sup>-</sup> )	B	J <sup>π</sup> : 1828γ to 3/2 <sup>-</sup> 85; 1763γ to (9/2) <sup>-</sup> 150.
1914.74 19	(3/2,5/2) <sup>-</sup>	B	J <sup>π</sup> : M1 1358γ to (3/2) <sup>-</sup> 557; 1616 γ to 7/2 <sup>-</sup> 299.
1936.3@ 15	(29/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband (E2) 515γ to (25/2 <sup>+</sup> ) 1421.
1938.66 17	(7/2) <sup>-</sup>	B	J <sup>π</sup> : E1 1407γ to (9/2) <sup>+</sup> 532; log ft=5.8 from (5/2) <sup>-</sup> ; 1843γ to 5/2 <sup>-</sup> 96..
1940.67 17	(3/2,5/2) <sup>-</sup>	B	J <sup>π</sup> : E2 1593γ to (5/2) <sup>-</sup> 348; log ft=5.7 from (5/2) <sup>-</sup> ; 1372γ to (1/2) <sup>-</sup> 569.
1948.65 23	(5/2 <sup>-</sup> ,7/2)	B	J <sup>π</sup> : log ft=6.0 from (5/2) <sup>-</sup> In ε decay; 1634γ to 9/2 <sup>-</sup> 314.
1956.75 13	(7/2) <sup>-</sup>	B	J <sup>π</sup> : 1643γ to 9/2 <sup>-</sup> 314; log ft=5.3 from (5/2) <sup>-</sup> ; E1 1760γ to (9/2) <sup>+</sup> 196; 1667γ to (11/2) <sup>-</sup> 290.
1968.7 3	(3/2,5/2,7/2) <sup>-</sup>	B	J <sup>π</sup> : E2(+M1) 1873γ to 5/2 <sup>-</sup> 95; log ft<5.9 from (5/2) <sup>-</sup> .
1970.72 16	(7/2) <sup>-</sup>	B	J <sup>π</sup> : log ft<5.9 from (5/2) <sup>-</sup> ; E2 1657γ to 9/2 <sup>-</sup> 314; 1439γ to (9/2) <sup>+</sup> 532.
1980.1 4		B	J <sup>π</sup> : 1681γ to 7/2 <sup>-</sup> 299 suggests J=(3/2 to 11/2). log ft=6.7 In ε decay for weak branch from (5/2) <sup>-</sup> favors J=(3/2,5/2,7/2).
2005.5& 19	(27/2) <sup>-</sup>	E	J <sup>π</sup> : stretched Q 504γ to (23/2 <sup>-</sup> ) 1501 In (HI,xny).
2268.5& 20	(29/2) <sup>-</sup>	E	J <sup>π</sup> : intraband stretched Q 520γ to (25/2 <sup>-</sup> ) 1748 In (HI,xny).
2340.8@ 15	(31/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband D+Q 404γ to (29/2 <sup>+</sup> ) 1936 In (HI,xny).
2373.7 <sup>e</sup> 23	29/2 <sup>-f</sup>	E	J <sup>π</sup> : intraband stretched Q 473γ to 25/2 <sup>-</sup> 1901; 1/2[521] band MEMBER..
2503.0@ 17	(33/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband stretched (Q) 567γ to (29/2 <sup>+</sup> ) 1936.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $^{183}\text{Pt}$  Levels (continued)

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	XREF	Comments
2541.8 <sup>&amp;</sup> 22	(31/2 <sup>-</sup> )	E	J <sup>π</sup> : stretched Q 536γ to (27/2 <sup>-</sup> ) 2005 In (HI,xny).
2818.5 <sup>&amp;</sup> 22	(33/2 <sup>-</sup> )	E	J <sup>π</sup> : (E2) 550γ to (29/2 <sup>-</sup> ) 2269.
2872.1 <sup>e</sup> 25	33/2 <sup>-f</sup>	E	J <sup>π</sup> : stretched Q 498γ to 29/2 <sup>-</sup> 2374; 1/2[521] band member.
2919.1 <sup>@</sup> 17	(35/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband 416γ to (33/2 <sup>+</sup> ) 2503; intraband Q78G to (31/2 <sup>+</sup> ) 2341.
3108.8 <sup>&amp;</sup> 24	(35/2 <sup>-</sup> )	E	J <sup>π</sup> : possible intraband 290γ to (33/2 <sup>-</sup> ) 2819; intraband 567γ to (31/2 <sup>-</sup> ) 2542.
3122.7 <sup>@</sup> 18	(37/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband stretched Q 620γ to (33/2 <sup>+</sup> ) 2503.
3396.5 <sup>&amp;</sup> 25	(37/2 <sup>-</sup> )	E	J <sup>π</sup> : intraband 578γ to (33/2 <sup>-</sup> ) 2819.
3423 <sup>e</sup> 3	37/2 <sup>-f</sup>	E	J <sup>π</sup> : 1/2[521] band member.
3543.4 <sup>@</sup> 18	(39/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband 421γ to (37/2 <sup>+</sup> ) 3123; intraband 624γ to (35/2 <sup>+</sup> ) 2919.
3698 <sup>&amp;</sup> 3	(39/2 <sup>-</sup> )	E	J <sup>π</sup> : intraband 589γ to (35/2 <sup>-</sup> ) 3109.
3793.7 <sup>@</sup> 21	(41/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband 671γ to (37/2 <sup>+</sup> ) 3123.
4019 <sup>&amp;</sup> 3	(41/2 <sup>-</sup> )	E	XREF: E(4018.2). J <sup>π</sup> : 622γ to 37/2 <sup>-</sup> 3423; band assignment.
4025 <sup>e</sup> 3	41/2 <sup>-f</sup>	E	XREF: E(4024.9). J <sup>π</sup> : 1/2[521] band member.
4290 <sup>&amp;</sup> 3	(43/2 <sup>-</sup> )	E	J <sup>π</sup> : intraband 592γ to (39/2 <sup>-</sup> ) 3698.
4507.7 <sup>@</sup> 23	(45/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband 714γ to (41/2 <sup>+</sup> ) 3794.
4950 <sup>&amp;</sup> 3	(47/2 <sup>-</sup> )	E	J <sup>π</sup> : intraband 660γ to (43/2 <sup>-</sup> ) 4290.
5256.7? <sup>@</sup> 25	(49/2 <sup>+</sup> )	E	J <sup>π</sup> : intraband 749γ to (45/2 <sup>+</sup> ) 4508.

<sup>†</sup> From least-squares fit to E<sub>γ</sub>, assigning 1 keV uncertainty to E<sub>γ</sub> data for which authors did not state an uncertainty.

<sup>‡</sup> From band assignments and connecting-transition multipolarities as indicated. Above 1.8 MeV, log ft arguments are reliable for only the strongly fed levels. Where missing feeding intensity is improbable, the parities of the levels associated with the 7/2[514], 9/2[624], and 7/2[633] bands are established by E1 transitions from the 1938 and 1954 levels into the 196 level and connecting transition multipolarities between these band members.

# Band(A): 7/2[633] band (1989Ro21). Band parameters: E<sub>0</sub>=315, α=17.4 (J=7/2,9/2).

@ Band(B): 9/2[624] band (1990Ny02).

& Band(C): 7/2[514] band (1990Ny02). E<sub>0</sub>=-166.3, α=12.8.

a Band(D): 7/2[503] band (1989Ro21). Band parameters: E<sub>0</sub>=310, α=18.1 (J=7/2,9/2).

b Band(E): 5/2[512] band (1989Ro21). E<sub>0</sub>=303.5, α=17.7.

c Band(F): 3/2[512] band (1989Ro21). E<sub>0</sub>=511.0, α=12.1.

d Band(G): 1/2[510] band (1989Ro21). E<sub>0</sub>=559, α=24.8, a=0.096 (J=1/2,3/2,5/2).

e Band(H): 1/2[521] g.s. band (1990Ny02). E<sub>0</sub>=5.3, α=15.3, a=+0.85 (J=1/2,3/2,5/2).

f Definite J<sup>π</sup> assigned to g.s. band members based on progression of level energies (decoupling parameter consistent with that expected for 1/2[521] band) and independently-determined J(g.s.)=1/2 and E2 multipolarity for intraband 85γ.

Adopted Levels, Gammas (continued)

$\gamma(^{183}\text{Pt})$

E,I, $\gamma$ ,M, $\delta$  from  $^{183}\text{Au}$   $\varepsilon$  decay, except As noted.

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma$	$I_\gamma$	$E_f$	$J_f^\pi$	Mult.	$\delta$	$\alpha^\dagger$	Comments
34.74	7/2 <sup>-</sup>	35.0 1	100	0.0	1/2 <sup>-</sup>	M3		1.71×10 <sup>5</sup> 4	B(M3)(W.u.)=0.0042 12 E $\gamma$ ,Mult.: from $^{183}\text{Pt}$ IT decay.
84.73	3/2 <sup>-</sup>	84.6 1	100	0.0	1/2 <sup>-</sup>	E2		9.93	
96.15	5/2 <sup>-</sup>	11.4 2	≈0.0008	84.73	3/2 <sup>-</sup>	[E2]		4.3×10 <sup>4</sup> 4	
		96.0 1	100 16	0.0	1/2 <sup>-</sup>	E2		5.80	
149.91	(9/2) <sup>-</sup>	115.2 1	100	34.74	7/2 <sup>-</sup>	M1+E2		3.6 9	Mult., $\delta$ : D(+Q), $\delta=-0.10$ +22-10 from (HI,xn $\gamma$ ), but $\alpha(\text{L})\text{exp}$ and $\alpha(\text{K})\text{exp}$ In $\varepsilon$ decay imply M1+E2, $\delta=3$ +7-1 and are considered adequate to establish $\Delta\tau=\text{No}$ for 115 $\gamma$ .
195.90	(9/2) <sup>+</sup>	46.1 2	0.75 12	149.91	(9/2) <sup>-</sup>	[E1]		0.659 13	B(E1)(W.u.)<1.5×10 <sup>-6</sup>
		161.2 1	100 15	34.74	7/2 <sup>-</sup>	E1		0.1208	B(E1)(W.u.)<1.6×10 <sup>-7</sup> $\alpha$ : anomalous E1 transition. $\alpha(\text{E1})=0.1208$ from theory but $\alpha(\text{K})\text{exp}=0.69$ 10 from $\varepsilon$ decay.
243.58	(11/2) <sup>+</sup>	48.0 2	100	195.90	(9/2) <sup>+</sup>	M1(+E2)	0.27 8	19 6	other I $\gamma$ : 17.3 17 from (HI,xn $\gamma$ ).
289.74	(11/2) <sup>-</sup>	140 1	36 6	149.91	(9/2) <sup>-</sup>	(M1+E2)		1.9 7	Mult.: D+Q from $\gamma(\theta)$ In (HI,xn $\gamma$ ) for intraband G. Mult.: Q intraband $\gamma$ from (HI,xn $\gamma$ ).
		255.0 1	100 15	34.74	7/2 <sup>-</sup>	(E2)		0.1620	
298.87	7/2 <sup>-</sup>	202.6 1	13.0 20	96.15	5/2 <sup>-</sup>	[M1+E2]		0.6 3	
		214.1 1	100 15	84.73	3/2 <sup>-</sup>	E2		0.286	
314.23	9/2 <sup>-</sup>	218.1 1	100	96.15	5/2 <sup>-</sup>	E2		0.268	
316.9	(13/2 <sup>+</sup> )	73 <sup>#</sup>		243.58	(11/2) <sup>+</sup>				
		121 <sup>#</sup>		195.90	(9/2) <sup>+</sup>	[E2]		2.27	
347.72	(5/2) <sup>-</sup>	251.4 1	25 4	96.15	5/2 <sup>-</sup>	[M1+E2]		0.33 17	
		262.8 1	19 3	84.73	3/2 <sup>-</sup>	[M1+E2]		0.29 15	
		313.1 1	100 15	34.74	7/2 <sup>-</sup>	M1+E2	0.5 3	0.23 4	
373.23	(7/2) <sup>-</sup>	223 1	≈3.8	149.91	(9/2) <sup>-</sup>	[M1+E2]		0.47 22	
		277.0 1	26 4	96.15	5/2 <sup>-</sup>	[M1+E2]	0.25 13	0.365 18	
		338.5 1	100 16	34.74	7/2 <sup>-</sup>	E2+M1	1.2 3	0.131 22	
375.44	(7/2) <sup>+</sup>	179.5 1	100	195.90	(9/2) <sup>+</sup>	M1		1.264	
449.4	(13/2) <sup>-</sup>	160.0 <sup>#</sup>	5.5 <sup>#</sup> 11	289.74	(11/2) <sup>-</sup>	(E2+M1) <sup>‡</sup>	-2.5 2	0.921 24	
		299.2 <sup>#</sup>	100 <sup>#</sup> 4	149.91	(9/2) <sup>-</sup>	(E2) <sup>‡</sup>		0.0992	
471.66	(7/2) <sup>-</sup>	98.5 2	5.5 8	373.23	(7/2) <sup>-</sup>	[M1+E2]		6.1 9	
		123.9 1	100 15	347.72	(5/2) <sup>-</sup>	M1(+E2)	<0.65	3.38 24	
		321.5 2	75 11	149.91	(9/2) <sup>-</sup>				
		375.6 2	15 3	96.15	5/2 <sup>-</sup>				
		437.1 2	69 10	34.74	7/2 <sup>-</sup>	E2+M1	1.2 6	0.066 25	
477.7	(15/2 <sup>+</sup> )	160.0 <sup>#</sup>	100 <sup>#</sup> 9	316.9	(13/2 <sup>+</sup> )	(E2+M1) <sup>‡</sup>	-1.7 5	1.03 15	
		234.5 <sup>#</sup>	70 <sup>#</sup> 3	243.58	(11/2) <sup>+</sup>	(E2) <sup>‡</sup>		0.212	

**Adopted Levels, Gammas (continued)**

$\gamma(^{183}\text{Pt})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma$	$I_\gamma$	$E_f$	$J_f^\pi$	Mult.	$\delta$	$\alpha^\dagger$
531.60	(9/2) <sup>+</sup>	155.9 2	29 4	375.44	(7/2) <sup>+</sup>	[M1+E2]		1.4 5
		288.1 1	100 16	243.58	(11/2) <sup>+</sup>	[M1+E2]		0.23 12
		335.8 2	32 5	195.90	(9/2) <sup>+</sup>			
535.91	(9/2) <sup>-</sup>	162.6 1	100 15	373.23	(7/2) <sup>-</sup>			
		221 1	≈9.2	314.23	9/2 <sup>-</sup>			
		246.2 2	10.8 17	289.74	(11/2) <sup>-</sup>			
		386.3 2	6.3 9	149.91	(9/2) <sup>-</sup>			
556.61	3/2 <sup>-</sup>	471.8 2	16.9 26	84.73	3/2 <sup>-</sup>	M1		0.0908
		556.7 & 2	≈100 &	0.0	1/2 <sup>-</sup>	M1+E2	1.3 4	0.034 8
568.79	(1/2) <sup>-</sup>	484.1 1	100	84.73	3/2 <sup>-</sup>	M1+E2	0.8 3	0.062 11
590.1	(17/2) <sup>+</sup>	112.2 #	2.7 # 5	477.7	(15/2) <sup>+</sup>	(M1+E2) ‡	-0.6 +30-4	4.3 11
		273.5 #	100 # 5	316.9	(13/2) <sup>+</sup>	(E2) ‡		0.1302
611.47		297.1 <sup>a</sup> 2	15.7 23	314.23	9/2 <sup>-</sup>			
		312.6 2	100 15	298.87	7/2 <sup>-</sup>			
		517.0 2	100 15	96.15	5/2 <sup>-</sup>	M1+E2	0.4 +3-4	0.065 10
613.16	(3/2,5/2) <sup>-</sup>	613.2 <sup>a</sup> 2	89 14	0.0	1/2 <sup>-</sup>	(E2)		0.01532
		269.8 2	27 4	347.72	(5/2) <sup>-</sup>	[M1+E2]		0.27 14
617.67	(5/2) <sup>-</sup>	302.8 <sup>a</sup> 2	1.71 25	314.23	9/2 <sup>-</sup>			
		533.1 & 2	≈39 &	84.73	3/2 <sup>-</sup>	E2(+M1)		0.044 23
		582.8 & <sup>a</sup> 2	≈100 &	34.74	7/2 <sup>-</sup>	E2+M1	2 1	0.024 11
		313.0 #	100	314.23	9/2 <sup>-</sup>			
627.2	13/2 <sup>-</sup>	179.6 #		449.4	(13/2) <sup>-</sup>			
629.2	(15/2) <sup>-</sup>	339.4 #	100 # 5	289.74	(11/2) <sup>-</sup>	(E2) ‡		0.0688
		164.7 2	100 14	471.66	(7/2) <sup>-</sup>			
636.37	(7/2 <sup>+</sup> ,9/2,11/2) <sup>-</sup>	392.8 2	40 6	243.58	(11/2) <sup>+</sup>			
		601.7 <sup>a</sup> 2	63 9	34.74	7/2 <sup>-</sup>			
		553.7 2	24 4	96.15	5/2 <sup>-</sup>			
650.23	(3/2) <sup>-</sup>	565.6 1	100 18	84.73	3/2 <sup>-</sup>	E2+M1	1.3 +4-3	0.033 5
678.45	(3/2,5/2) <sup>-</sup>	379.5 2	≈18	298.87	7/2 <sup>-</sup>			
		593.8 2	100 15	84.73	3/2 <sup>-</sup>	E2		0.01648
		678.6 <sup>a</sup> 2	15.0 25	0.0	1/2 <sup>-</sup>			
692.99	(3/2,5/2) <sup>-</sup>	394.0 2	9.2 13	298.87	7/2 <sup>-</sup>			
		596.9 2	100 17	96.15	5/2 <sup>-</sup>	E2+M1	3 +2-1	0.020 4
		608.3 2	32 5	84.73	3/2 <sup>-</sup>			
		693.3 <sup>a</sup> 2	8.7 13	0.0	1/2 <sup>-</sup>			
702.44	(7/2) <sup>-</sup>	329.3 2	≈12.8	373.23	(7/2) <sup>-</sup>			
		354.4 2	10.0 14	347.72	(5/2) <sup>-</sup>			
		606.5 2	100 14	96.15	5/2 <sup>-</sup>	E2+M1	1.5 +5-3	0.025 4
730.92	(≥5/2) <sup>+</sup>	355.4 2	38 6	375.44	(7/2) <sup>+</sup>			
762.22	(5/2) <sup>-</sup>	535.1 2	100 15	195.90	(9/2) <sup>+</sup>	E2		0.0210
		388.5 <sup>a</sup> 2	24 3	373.23	(7/2) <sup>-</sup>			

Adopted Levels, Gammas (continued)

$\gamma(^{183}\text{Pt})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma$	$I_\gamma$	$E_f$	$J_f^\pi$	Mult.	$\delta$	$\alpha^\dagger$	Comments
762.22	(5/2) <sup>-</sup>	463.1 2	47 7	298.87	7/2 <sup>-</sup>	M1+E2	0.9 3	0.066 12	
		612.5 2	57 9	149.91	(9/2) <sup>-</sup>	(E2)		0.01536	
		666.1 2	24 3	96.15	5/2 <sup>-</sup>				
		677.5 2	89 13	84.73	3/2 <sup>-</sup>				
		727.5 <sup>a</sup> 2	100 15	34.74	7/2 <sup>-</sup>	M1(+E2)	<2	0.022 8	
801.90	(3/2,5/2,7/2) <sup>-</sup>	428.8 2	54 9	373.23	(7/2) <sup>-</sup>				
		705.8 2	100 15	96.15	5/2 <sup>-</sup>				
		717.0 2	69 10	84.73	3/2 <sup>-</sup>	E2		0.01085	
819.90	(7/2,9/2) <sup>-</sup>	505.7 2	26 4	314.23	9/2 <sup>-</sup>	M1+E2	0.7 3	0.059 10	
		521.0 2	100 15	298.87	7/2 <sup>-</sup>	M1+E2	0.9 3	0.049 9	
824.90	(5/2,7/2,9/2) <sup>-</sup>	477.1 2	31 4	347.72	(5/2) <sup>-</sup>				
		526.1 2	100 15	298.87	7/2 <sup>-</sup>	M1+E2	≈0.4	≈0.0618	
825.3	(17/2) <sup>-</sup>	196 <sup>#</sup>		629.2	(15/2) <sup>-</sup>				
		376 <sup>#</sup>		449.4	(13/2) <sup>-</sup>				E <sub>γ</sub> : for doubly-placed G.
834.2	(19/2 <sup>+</sup> )	244.2 <sup>#</sup>	13.2 <sup>#</sup> 22	590.1	(17/2 <sup>+</sup> )	(E2+M1) <sup>‡</sup>	-1.1 +3-5	0.34 6	
		356.4 <sup>#</sup>	100 <sup>#</sup> 5	477.7	(15/2 <sup>+</sup> )	(E2) <sup>‡</sup>		0.0599	
835.31	(3/2,5/2) <sup>-</sup>	536.2 2	24 3	298.87	7/2 <sup>-</sup>				
		739.4 2	100 15	96.15	5/2 <sup>-</sup>	M1+E2	0.7 +5-4	0.022 5	
		835.6 <sup>a</sup> 2	18.0 27	0.0	1/2 <sup>-</sup>				
847.33	(7/2,9/2,11/2) <sup>-</sup>	533.1 & 2	100 &	314.23	9/2 <sup>-</sup>	M1+E2		0.044 23	
		581.1 2	100 16	298.87	7/2 <sup>-</sup>				
879.74	(7/2 <sup>-</sup> ,9/2 <sup>-</sup> )	729.6 2	67 10	149.91	(9/2) <sup>-</sup>	(E2+M1)		0.020 10	
		845.1 <sup>a</sup> 2	46 7	34.74	7/2 <sup>-</sup>	E2(+M1)	>2	0.0089 13	
		571.3 2	63 9	347.72	(5/2) <sup>-</sup>	E2+M1	1.5 +6-3	0.029 5	
919.02	(3/2,5/2,7/2) <sup>-</sup>	884.5 <sup>a</sup> 2	100 15	34.74	7/2 <sup>-</sup>	E2(+M1)	>2	0.0081 11	
		362.0 2	23 3	568.79	(1/2) <sup>-</sup>				
930.64	-	582.8 & 2	≈100 &	347.72	(5/2) <sup>-</sup>				
		556.7 & 2	≈100 &	375.44	(7/2) <sup>+</sup>	[E1]		0.00660	
		617.4 2	58 9	314.23	9/2 <sup>-</sup>	M1+E2	0.8 +4-3	0.033 6	
963.80	(7/2,9/2,11/2) <sup>-</sup>	897.6 <sup>a</sup> 2	11.0 17	34.74	7/2 <sup>-</sup>				
		649.9 2	100 16	314.23	9/2 <sup>-</sup>	M1(+E2)	<1	0.033 7	
		664.6 2	38 5	298.87	7/2 <sup>-</sup>				
966.2	(21/2 <sup>+</sup> )	132.1 <sup>#</sup>	5.0 <sup>#</sup> 5	834.2	(19/2 <sup>+</sup> )	(M1+E2) <sup>‡</sup>		2.3 7	
		376 <sup>#</sup>	100 <sup>#</sup> 5	590.1	(17/2 <sup>+</sup> )	(E2) <sup>‡</sup>		0.0517	I <sub>γ</sub> : for doublet.
978.62	(7/2) <sup>-</sup>	631 1	≈24	347.72	(5/2) <sup>-</sup>				
		828.7 2	100 15	149.91	(9/2) <sup>-</sup>	M1+E2	1.0 +8-4	0.015 4	
		944.0 <sup>a</sup> 2	83 12	34.74	7/2 <sup>-</sup>	M1		0.01515	
989.94	( <sup>+</sup> )	614.5 2	100	375.44	(7/2) <sup>+</sup>	(E2)		0.01525	
998.72	(≥7/2)	467.3 2	38 6	531.60	(9/2) <sup>+</sup>				
		623.1 2	100 15	375.44	(7/2) <sup>+</sup>				

Adopted Levels, Gammas (continued)

$\gamma(^{183}\text{Pt})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma$	$I_\gamma$	$E_f$	$J_f^\pi$	Mult.	$\delta$	$\alpha^\dagger$
998.72	( $\geq 7/2$ )	754.5 <sup>a</sup> 2	68 9	243.58	(11/2) <sup>+</sup>			
1011.9	17/2 <sup>-</sup>	384.7 <sup>#</sup>	100 <sup>#</sup>	627.2	13/2 <sup>-</sup>	(E2) <sup>‡</sup>		0.0486
1024.53	(5/2,7/2,9/2) <sup>-</sup>	651.3 2	100 15	373.23	(7/2) <sup>-</sup>	M1(+E2)	<1	0.033 7
		990.1 <sup>a</sup> 2	38 5	34.74	7/2 <sup>-</sup>			
1035.11	(7/2,9/2) <sup>-</sup>	736.1 2	100 14	298.87	7/2 <sup>-</sup>	M1+E2	0.7 +5-4	0.023 5
		745.5 2	28 4	289.74	(11/2) <sup>-</sup>			
		1000.6 <sup>a</sup> 3	91 14	34.74	7/2 <sup>-</sup>			
1038.2	(19/2) <sup>-</sup>	214 <sup>#a</sup>		825.3	(17/2) <sup>-</sup>			
		409.0 <sup>##</sup>	100 <sup>##</sup> 7	629.2	(15/2) <sup>-</sup>	(E2) <sup>‡</sup>		0.0412
1058.03		684.8 2	100	373.23	(7/2) <sup>-</sup>			
1071.54	(5/2,7/2) <sup>-</sup>	696.1 2	100 15	375.44	(7/2) <sup>+</sup>			
		1036.8 3	100 15	34.74	7/2 <sup>-</sup>	E2(+M1)	>2	0.0058 7
1126.47		595.1 2	66 9	531.60	(9/2) <sup>+</sup>			
		753.0 2	72 9	373.23	(7/2) <sup>-</sup>			
		1091.8 <sup>a</sup> 3	100 16	34.74	7/2 <sup>-</sup>			
1263.0	(21/2) <sup>-</sup>	437.7 <sup>#</sup>	100	825.3	(17/2) <sup>-</sup>			
1280.1	(23/2 <sup>+</sup> )	314 <sup>#</sup>		966.2	(21/2 <sup>+</sup> )			
		445.9 <sup>#</sup>	100 <sup>#</sup> 6	834.2	(19/2 <sup>+</sup> )	(E2) <sup>‡</sup>		0.0330
1421.3	(25/2 <sup>+</sup> )	141.2 <sup>#</sup>	2.4 <sup>#</sup> 7	1280.1	(23/2 <sup>+</sup> )	(M1+E2) <sup>‡</sup>		1.9 7
		454.8 <sup>#</sup>	100 <sup>#</sup> 4	966.2	(21/2 <sup>+</sup> )	(E2) <sup>‡</sup>		0.0313
1444.0	21/2 <sup>-</sup>	432.1 <sup>#</sup>	100 <sup>#</sup>	1011.9	17/2 <sup>-</sup>	(E2) <sup>‡</sup>		0.0357
1501.3	(23/2 <sup>-</sup> )	239 <sup>#a</sup>		1263.0	(21/2 <sup>-</sup> )			
		463.2 <sup>#</sup>	100 <sup>#</sup> 6	1038.2	(19/2) <sup>-</sup>	(E2) <sup>‡</sup>		0.0299
1748.4	(25/2 <sup>-</sup> )	485.4 <sup>#</sup>	100 <sup>#</sup>	1263.0	(21/2 <sup>-</sup> )	(E2) <sup>‡</sup>		0.0266
1790.9	(27/2 <sup>+</sup> )	369.5 <sup>#</sup>	100 <sup>#</sup> 36	1421.3	(25/2 <sup>+</sup> )	(E2+M1) <sup>‡</sup>	-1.4 +5-10	0.09 3
		511 <sup>#</sup>		1280.1	(23/2 <sup>+</sup> )			
1810.8		1511.9 3	100	298.87	7/2 <sup>-</sup>			
1814.5	(3/2,5/2,7/2) <sup>-</sup>	1466.8 3	100	347.72	(5/2) <sup>-</sup>	M1(+E2)	<1.6	0.0042 9
1844.4	-	1496.7 3	100	347.72	(5/2) <sup>-</sup>	E2(+M1)	>1	0.0032 6
1847.8		1697.9 3	100 14	149.91	(9/2) <sup>-</sup>			
		1812.8 <sup>a</sup> 3	36 6	34.74	7/2 <sup>-</sup>			
1884.3	(3/2,5/2,7/2) <sup>+</sup>	1536.6 3	100	347.72	(5/2) <sup>-</sup>	E1		1.20×10 <sup>-3</sup>
1892.4	( $\leq 7/2$ )	1807.7 3	100	84.73	3/2 <sup>-</sup>			
1900.6	25/2 <sup>-</sup>	456.6 <sup>#</sup>	100 <sup>#</sup>	1444.0	21/2 <sup>-</sup>	(E2) <sup>‡</sup>		0.0310
1907.6	(5/2,7/2) <sup>-</sup>	1532.2 3	100	375.44	(7/2) <sup>+</sup>	E1		
1913.03	(5/2 <sup>-</sup> ,7/2 <sup>-</sup> )	1763.3 3	36 5	149.91	(9/2) <sup>-</sup>			
		1828.1 3	47 7	84.73	3/2 <sup>-</sup>			
		1878.0 <sup>a</sup> 3	100 15	34.74	7/2 <sup>-</sup>			
1914.74	(3/2,5/2) <sup>-</sup>	1358.2 3	72 12	556.61	3/2 <sup>-</sup>	M1		0.00610



Adopted Levels, Gammas (continued)

$\gamma(^{183}\text{Pt})$ (continued)								
$E_i(\text{level})$	$J_i^\pi$	$E_\gamma$	$I_\gamma$	$E_f$	$J_f^\pi$	Mult.	$\delta$	$\alpha^\dagger$
1914.74	$(3/2, 5/2)^-$	1615.8 3	22 3	298.87	$7/2^-$			
		1830.0 3	100 16	84.73	$3/2^-$			
1936.3	$(29/2^+)$	147 <sup>#a</sup>		1790.9	$(27/2^+)$			
		515.0 <sup>#</sup>	100 <sup>#</sup> 7	1421.3	$(25/2^+)$	$(E2)^\ddagger$		0.0230
1938.66	$(7/2)^-$	1406.9 3	83 13	531.60	$(9/2)^+$	E1		$1.28 \times 10^{-3}$
		1639.9 3	27 4	298.87	$7/2^-$			
		1742.6 3	100 15	195.90	$(9/2)^+$	E1		$1.16 \times 10^{-3}$
		1842.7 3	80 12	96.15	$5/2^-$			
1940.67	$(3/2, 5/2)^-$	1903.9 <sup>a</sup> 3	37 5	34.74	$7/2^-$			
		1010.1 3	27 4	930.64	-	E2+M1	1.1 +13-5	0.0087 23
		1371.9 3	24 4	568.79	$(1/2)^-$			
		1384.0 3	60 9	556.61	$3/2^-$	E2(+M1)	>0.6	0.0040 11
		1592.9 3	100 16	347.72	$(5/2)^-$	E2		0.00235
		1940.1 <sup>a</sup> 3	12.4 20	0.0	$1/2^-$			
1948.65	$(5/2^-, 7/2)$	1634.3 3	48 7	314.23	$9/2^-$			
		1852.6 3	100 15	96.15	$5/2^-$			
		1914.2 <sup>a</sup> 3	16.9 25	34.74	$7/2^-$			
1956.75	$(7/2)^-$	1425.0 3	58 8	531.60	$(9/2)^+$	E1		$1.26 \times 10^{-3}$
		1484.9 3	25 4	471.66	$(7/2)^-$	E2(+M1)	>1	0.0032 6
		1608.8 3	15.8 23	347.72	$(5/2)^-$			
		1642.5 3	29 4	314.23	$9/2^-$			
		1658.3 3	23 4	298.87	$7/2^-$	E2		0.00222
		1666.7 3	3.7 6	289.74	$(11/2)^-$			
		1760.9 3	100 15	195.90	$(9/2)^+$	E1		$1.16 \times 10^{-3}$
		1861.0 3	23 4	96.15	$5/2^-$			
1968.7	$(3/2, 5/2, 7/2)^-$	1921.7 <sup>a</sup> 3	12.9 19	34.74	$7/2^-$			
		1872.5 3	100 15	96.15	$5/2^-$	E2(+M1)	>1	0.0022 3
		1934.0 <sup>a</sup> 3	23 3	34.74	$7/2^-$			
1970.72	$(7/2)^-$	899.6 <sup>a</sup> 2	28 4	1071.54	$(5/2, 7/2)^-$			
		1438.8 3	72 11	531.60	$(9/2)^+$			
		1595.5 3	29 4	375.44	$(7/2)^+$			
		1656.7 3	100 15	314.23	$9/2^-$	E2		0.00222
		1820.6 3	43 7	149.91	$(9/2)^-$			
		1874.6 3	83 13	96.15	$5/2^-$			
1980.1		1681.2 3	100 16	298.87	$7/2^-$			
		1945.2 <sup>a</sup> 3	38 7	34.74	$7/2^-$			
2005.5	$(27/2^-)$	259 <sup>#a</sup>		1748.4	$(25/2^-)$			
		504.2 <sup>#</sup>	100 <sup>#</sup> 4	1501.3	$(23/2^-)$	$(E2)^\ddagger$		0.0243
2268.5	$(29/2^-)$	520.1 <sup>#</sup>	100 <sup>#</sup>	1748.4	$(25/2^-)$	$(E2)^\ddagger$		0.0225
2340.8	$(31/2^+)$	404.1 <sup>#</sup>	28 <sup>#</sup> 3	1936.3	$(29/2^+)$	$(M1+E2)^\ddagger$		0.09 5
		550 <sup>#</sup>	100 <sup>#</sup> 13	1790.9	$(27/2^+)$	$(E2)^\ddagger$		0.0197

Adopted Levels, Gammas (continued)

$\gamma(^{183}\text{Pt})$ (continued)								
$E_i(\text{level})$	$J_i^\pi$	$E_\gamma$	$I_\gamma$	$E_f$	$J_f^\pi$	Mult.	$\alpha^\dagger$	Comments
2373.7	29/2 <sup>-</sup>	473.1 <sup>#</sup>	100 <sup>#</sup>	1900.6	25/2 <sup>-</sup>	(E2) <sup>‡</sup>	0.0284	
2503.0	(33/2 <sup>+</sup> )	164 <sup>#a</sup>		2340.8	(31/2 <sup>+</sup> )			
		567 <sup>@#</sup>	100 <sup>@#</sup> 6	1936.3	(29/2 <sup>+</sup> )	(E2) <sup>‡</sup>	0.0183	
2541.8	(31/2 <sup>-</sup> )	275 <sup>#a</sup>		2268.5	(29/2 <sup>-</sup> )			
		536.3 <sup>#</sup>	100 <sup>#</sup> 3	2005.5	(27/2 <sup>-</sup> )	(E2) <sup>‡</sup>	0.0209	
2818.5	(33/2 <sup>-</sup> )	550 <sup>#</sup>	100 <sup>#</sup>	2268.5	(29/2 <sup>-</sup> )	(E2) <sup>‡</sup>	0.0197	
2872.1	33/2 <sup>-</sup>	498.4 <sup>#</sup>	100 <sup>#</sup>	2373.7	29/2 <sup>-</sup>	(E2) <sup>‡</sup>	0.0250	
2919.1	(35/2 <sup>+</sup> )	416 <sup>#</sup>		2503.0	(33/2 <sup>+</sup> )			E <sub>γ</sub> : from (HI,xnγ) for doublet.
		578		2340.8	(31/2 <sup>+</sup> )			
3108.8	(35/2 <sup>-</sup> )	290 <sup>#a</sup>		2818.5	(33/2 <sup>-</sup> )			
		567 <sup>@#</sup>	100 <sup>@#</sup> 6	2541.8	(31/2 <sup>-</sup> )	(E2) <sup>‡</sup>	0.0183	
3122.7	(37/2 <sup>+</sup> )	205 <sup>#a</sup>		2919.1	(35/2 <sup>+</sup> )			
		620.0 <sup>#</sup>	100 <sup>#</sup> 13	2503.0	(33/2 <sup>+</sup> )	(E2) <sup>‡</sup>	0.01494	
3396.5	(37/2 <sup>-</sup> )	578 <sup>#</sup>	100	2818.5	(33/2 <sup>-</sup> )			E <sub>γ</sub> : for doublet.
3423	37/2 <sup>-</sup>	551 <sup>#</sup>	100 <sup>#</sup>	2872.1	33/2 <sup>-</sup>	(E2) <sup>‡</sup>	0.0196	
3543.4	(39/2 <sup>+</sup> )	421 <sup>#</sup>		3122.7	(37/2 <sup>+</sup> )			
		624 <sup>#</sup>		2919.1	(35/2 <sup>+</sup> )			
3698	(39/2 <sup>-</sup> )	589 <sup>#</sup>	100	3108.8	(35/2 <sup>-</sup> )			
3793.7	(41/2 <sup>+</sup> )	671 <sup>#</sup>	100	3122.7	(37/2 <sup>+</sup> )			
4019	(41/2 <sup>-</sup> )	622 <sup>#</sup>	100	3396.5	(37/2 <sup>-</sup> )			
4025	41/2 <sup>-</sup>	602 <sup>#</sup>	100	3423	37/2 <sup>-</sup>			
4290	(43/2 <sup>-</sup> )	592 <sup>#</sup>	100	3698	(39/2 <sup>-</sup> )			
4507.7	(45/2 <sup>+</sup> )	714 <sup>#</sup>	100	3793.7	(41/2 <sup>+</sup> )			
4950	(47/2 <sup>-</sup> )	660 <sup>#</sup>	100	4290	(43/2 <sup>-</sup> )			
5256.7?	(49/2 <sup>+</sup> )	749 <sup>#a</sup>	100	4507.7	(45/2 <sup>+</sup> )			

† Additional information 1.

‡ From  $\gamma(\theta)$  In (HI,xnγ), assigning  $\Delta\pi=(\text{No})$  if transition is intraband.

# From (HI,xnγ).

@ Multiply placed with undivided intensity.

& Multiply placed with intensity suitably divided.

<sup>a</sup> Placement of transition in the level scheme is uncertain.

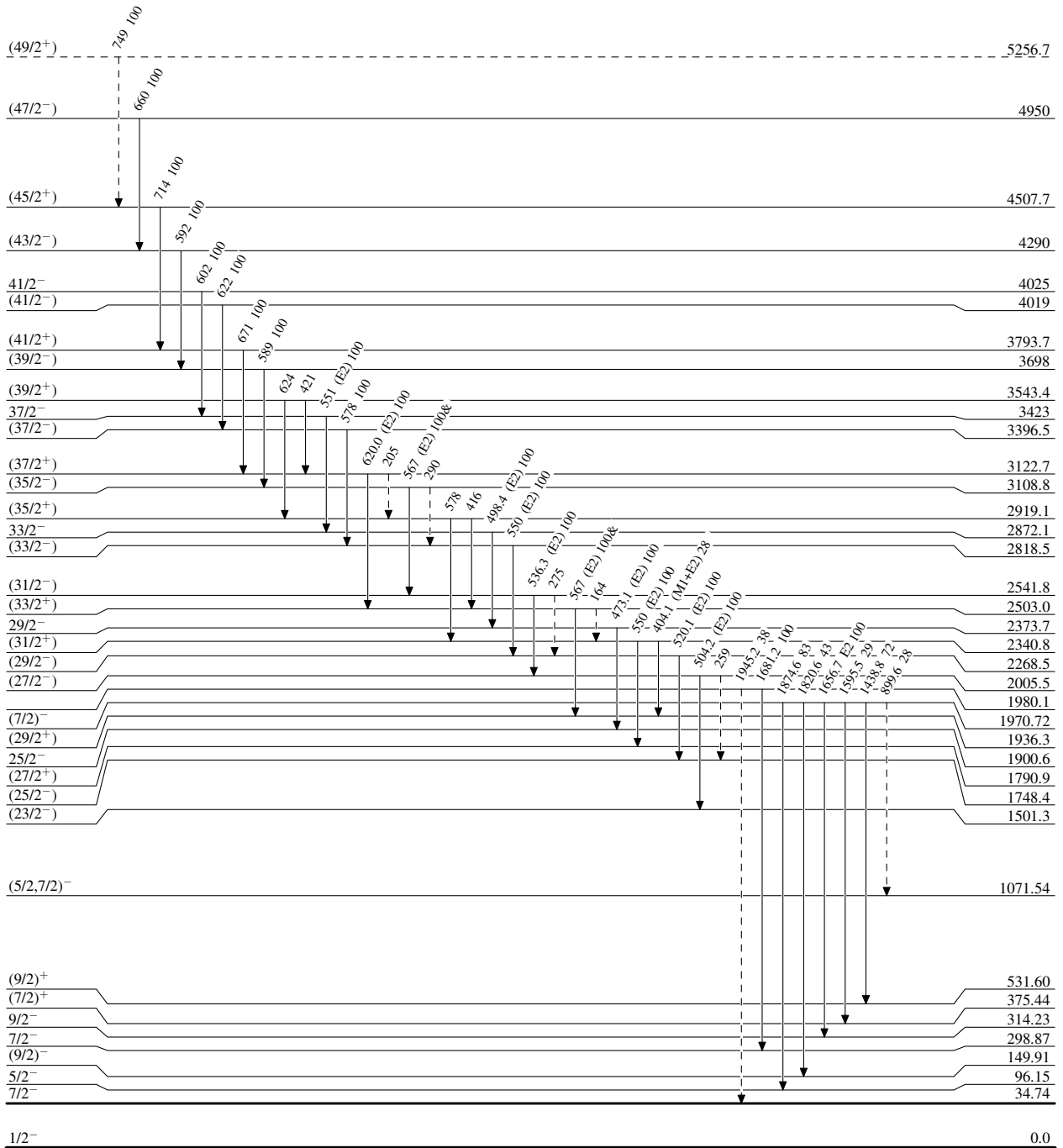
**Adopted Levels, Gammas**

Legend

**Level Scheme**

Intensities: Relative photon branching from each level  
& Multiply placed: undivided intensity given

-----►  $\gamma$  Decay (Uncertain)



43 s 5

6.5 min 10

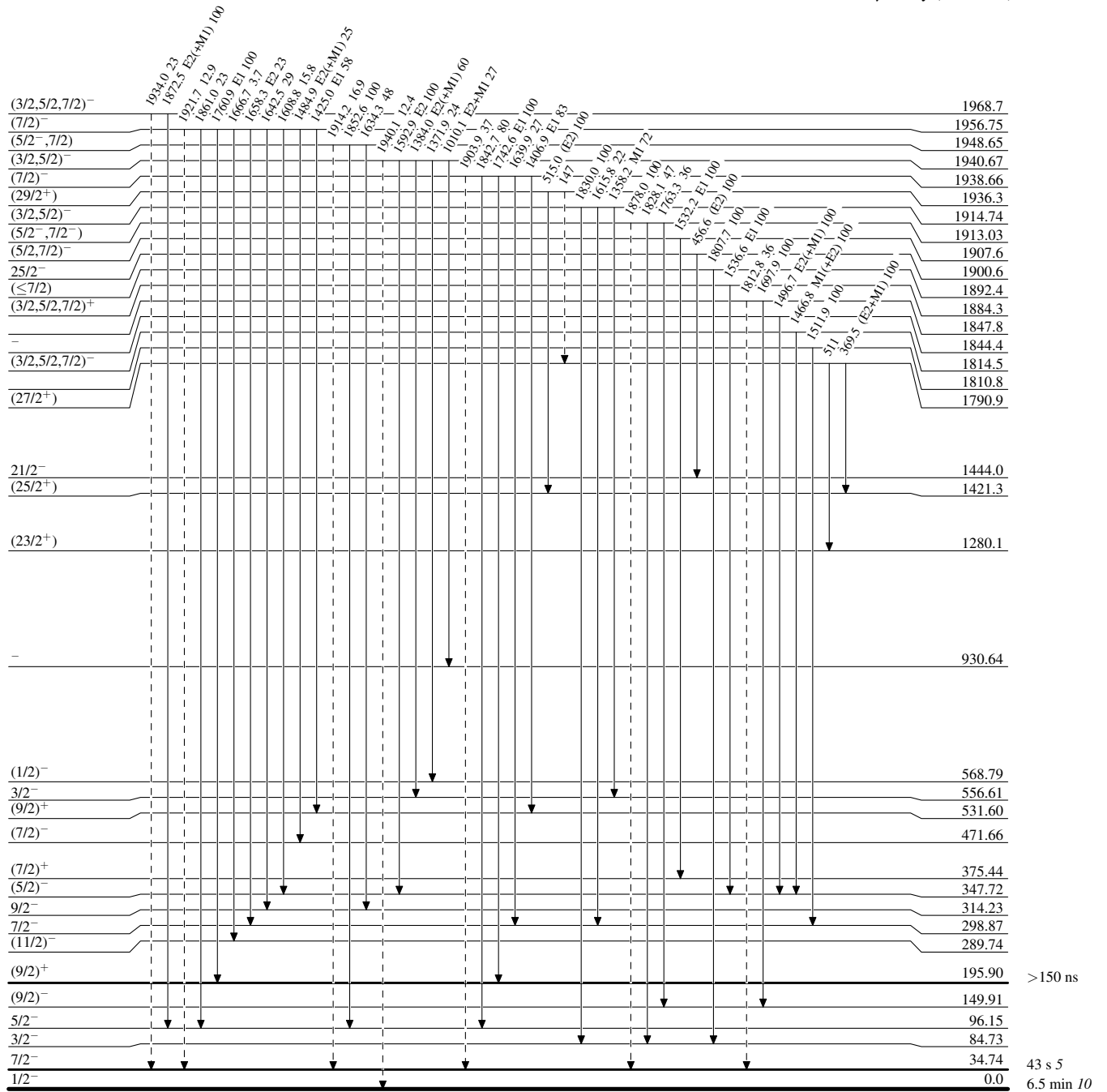
**Adopted Levels, Gammas**

Legend

**Level Scheme (continued)**

Intensities: Relative photon branching from each level  
& Multiply placed: undivided intensity given

-----▶  $\gamma$  Decay (Uncertain)



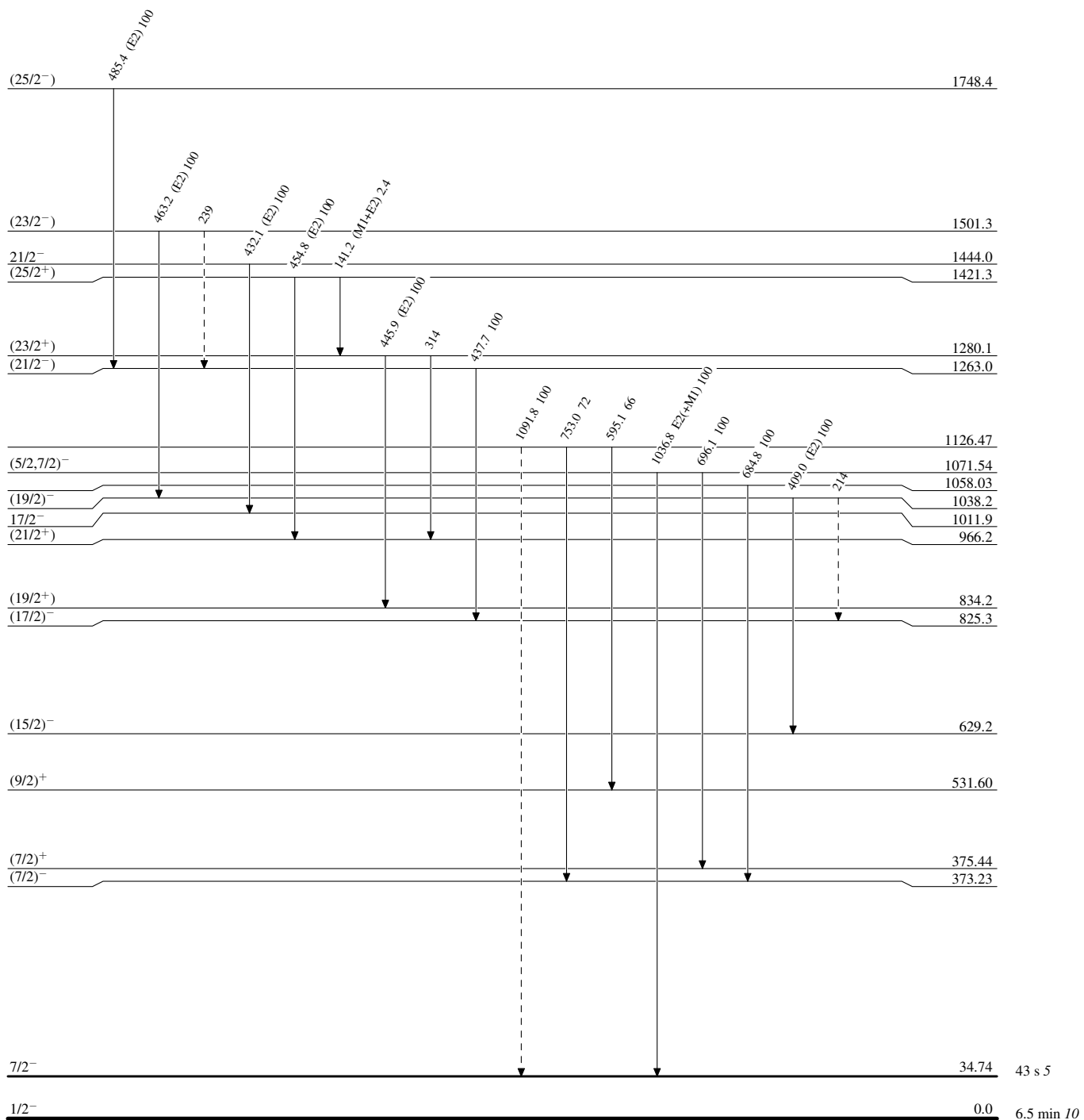
**Adopted Levels, Gammas**

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level  
& Multiply placed: undivided intensity given

-----►  $\gamma$  Decay (Uncertain)



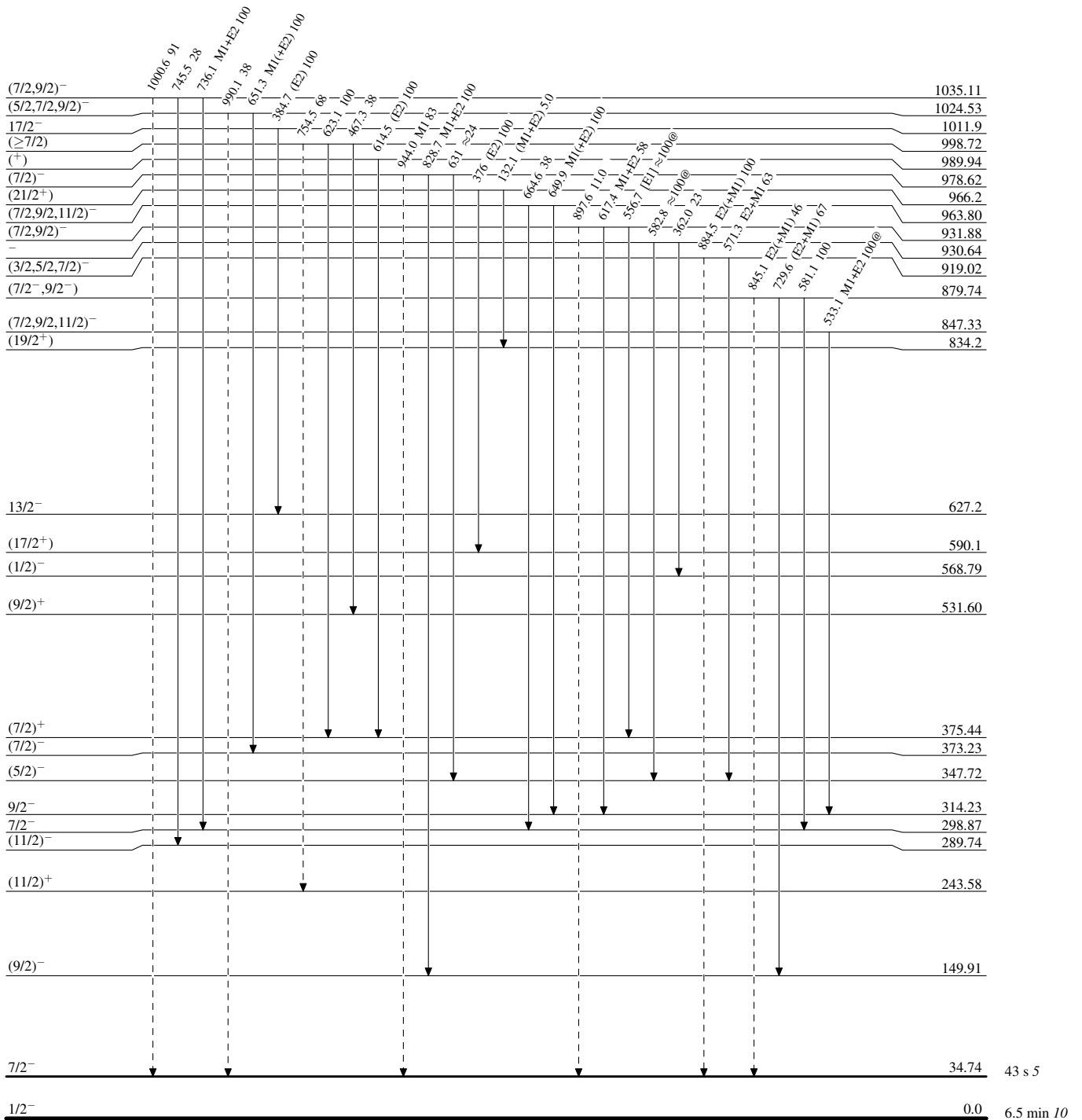
Adopted Levels, Gammas

Level Scheme (continued)

Legend

Intensities: Relative photon branching from each level  
& Multiply placed: undivided intensity given  
@ Multiply placed: intensity suitably divided

----->  $\gamma$  Decay (Uncertain)



$^{183}_{78}\text{Pt}_{105}$

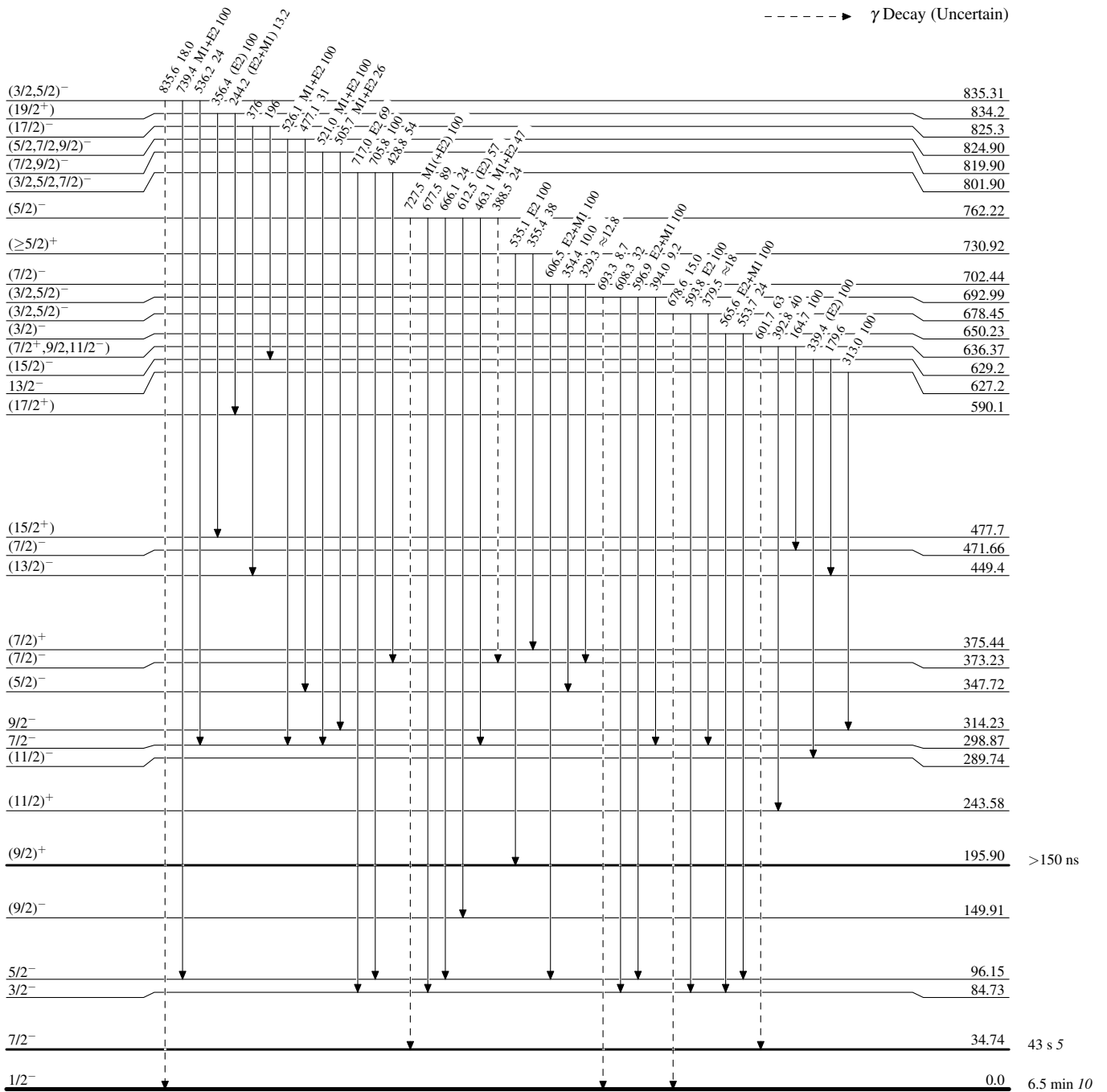
**Adopted Levels, Gammas**

**Level Scheme (continued)**

Intensities: Relative photon branching from each level  
& Multiply placed: undivided intensity given  
@ Multiply placed: intensity suitably divided

Legend

-----▶  $\gamma$  Decay (Uncertain)



$^{183}_{78}\text{Pt}_{105}$

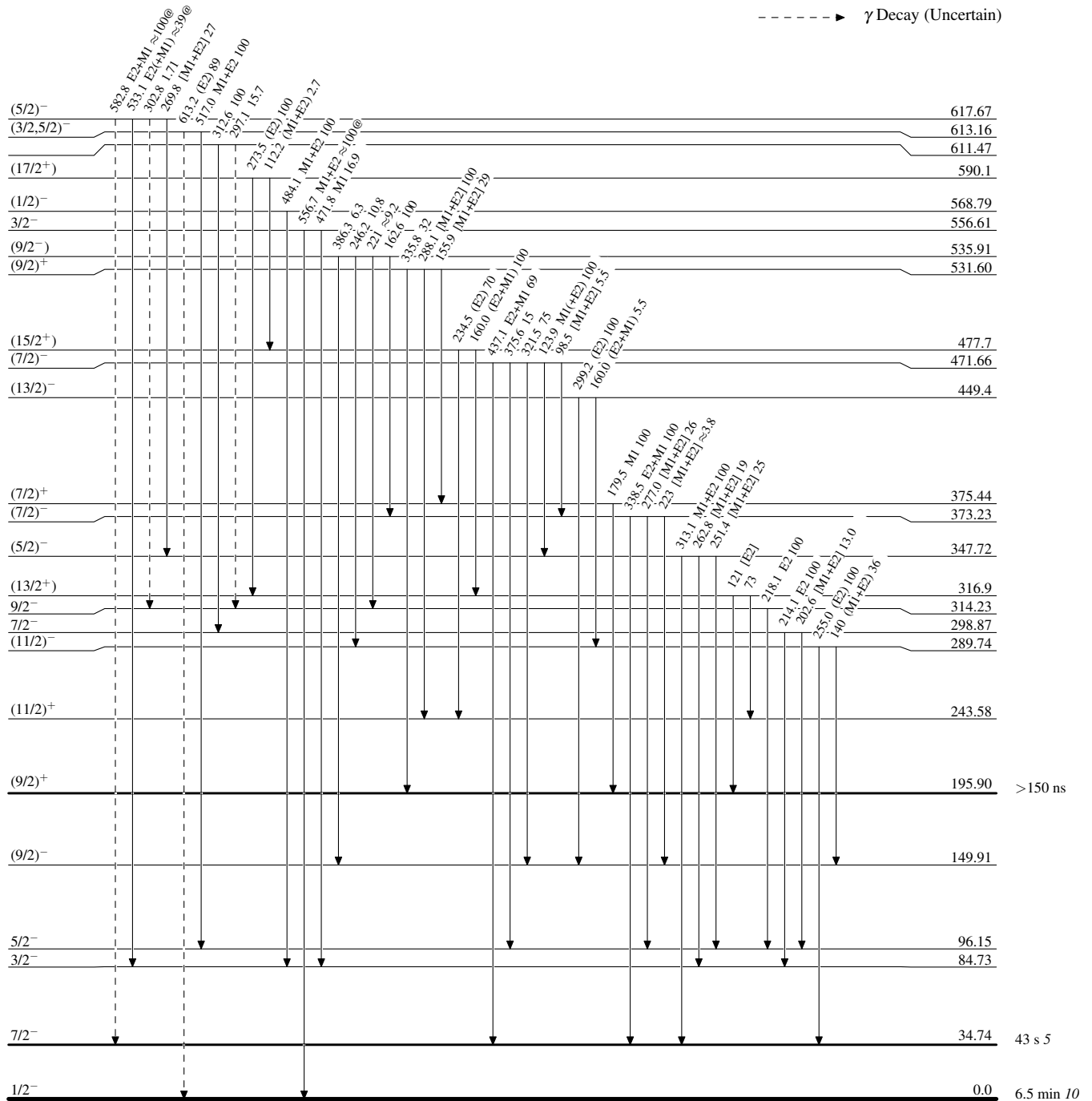
**Adopted Levels, Gammas**

**Level Scheme (continued)**

**Legend**

Intensities: Relative photon branching from each level  
& Multiply placed: undivided intensity given  
@ Multiply placed: intensity suitably divided

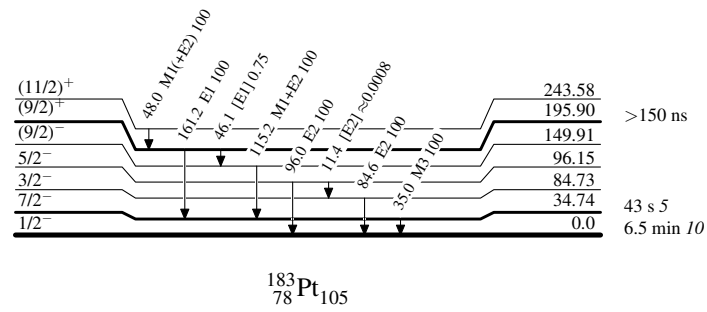
-----▶  $\gamma$  Decay (Uncertain)

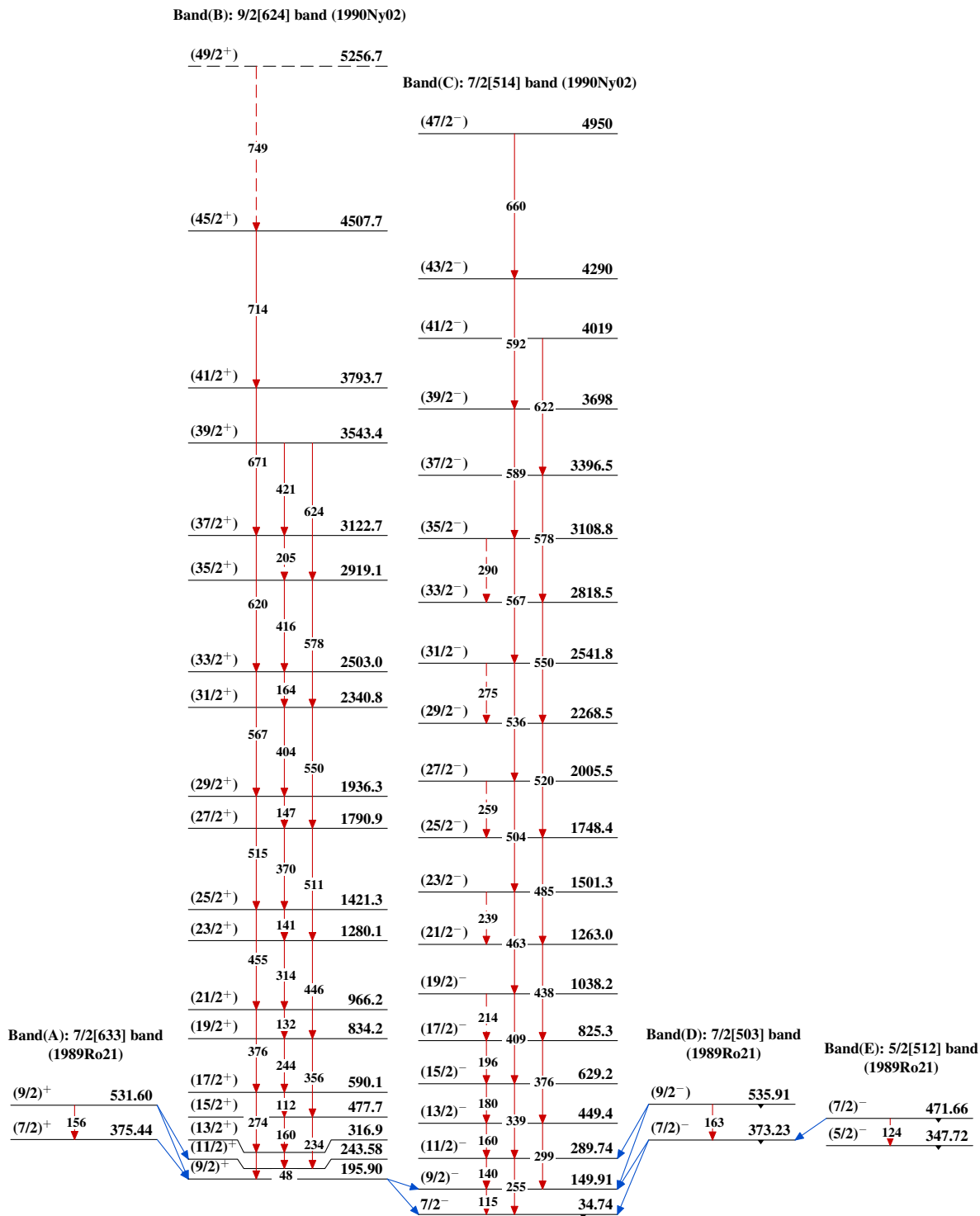




**Adopted Levels, Gammas****Level Scheme (continued)**

Intensities: Relative photon branching from each level  
 & Multiply placed: undivided intensity given  
 @ Multiply placed: intensity suitably divided



**Adopted Levels, Gammas** $^{183}_{78}\text{Pt}_{105}$

**Adopted Levels, Gammas (continued)**