Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 106,619 (2005)	1-Nov-2005

Q(β^-)=432.7 *9*; S(n)=5753.7 *3*; S(p)=7.84×10^3 *3*; Q(α)=1590.4 *20* 2012Wa38
Note: Current evaluation has used the following Q record 432.5 9 *5753.7 3* 7837 26 *1597.3 22* 2003Au03.
Additional information 1.
Other reactions:
^{184}W(p,π^+): 1988Ab05.
^{186}W(γ,n): 2003Mo24, 2003So05.
^{186}W(n,2n): 1989Pe04, 1997KoZZ.

^{185}W Levels

See 1972Ca01 and 1969Da01 for discussions and calculations of Coriolis mixing between rotational bands based on N=5 Nilsson orbitals.

Cross Reference (XREF) Flags

A	^{185}Ta β^- decay	E	^{184}W(n,γ) E=2,24 keV res: av	I	^{186}W(p,d) E=18.0 MeV
B	^{185}W IT decay (1.67 min)	F	^{184}W(n,γ) E=184,311,425 eV	J	^{184}W(pol d,p)
C	^{184}W(n,γ) E=thermal	G	^{186}W(d,t),^{184}W(d,p)		
D	^{184}W(n,γ) E=thermal: γ coin	H	^{186}W(^{3}He,α),(d,t)		

E(level)†	J$^\pi$‡	T$_{1/2}$	XREF	Comments
0.0@	3/2$^-$	75.1 d *3*	ABCDEFGHI	%β^-=100 J$^\pi$: J=3/2, atomic beam (1963Do13); $\Delta\pi$=no 66γ from π=− 66 level. Nilsson orbital 3/2[512]. T$_{1/2}$: from 1972Em01. Other values: 76.6 d *15* (2003So18), 74.5 d *15* (1940Fa01), 73.2 d *5* (1948Sa18), 74.5 d (1955Kr22), 70.0 d *9* (1957Th11), 75.1 d *6* (1964An02), 76.4 d *7* (1968Pi02). Others: 1940Mi05, 1961Go38.
23.547& *18*	1/2$^-$		ABCDE G I	J$^\pi$: J^π=1/2$^-$,3/2$^-$ from (n,γ) E=2,24 keV res: av. J^π=1/2$^-$ from DWBA calculation. Nilsson orbital 1/2[510].
65.854@ *16*	5/2$^-$		ABCDE G IJ	J$^\pi$: M1+E2 66γ to J=3/2 g.s.; L=3 in (d,t),(d,p); 3/2[512] band member.
93.295& *20*	3/2$^-$		ABCDEFG IJ	J$^\pi$: L=1 in (d,t),(d,p). 1/2[510] band member.
173.702@ *16*	7/2$^-$	<1.5 ns	ABCD G	J$^\pi$: 107.8γ M1+E2 to 5/2$^-$; 174γ E2 to 3/2$^-$; 3/2[512] band member. T$_{1/2}$: from ^{185}Ta β-decay (1969Ku07).
187.878& *15*	5/2$^-$		ABCD G I	J$^\pi$: L=3 in (d,t),(d,p); 164.3γ to 1/2$^-$. 1/2[510] band member.
197.383a *23*	11/2$^+$	1.67 min *3*	B	%IT=100 J$^\pi$: 131.6γ E3 to 5/2$^-$, 23.54γ to 7/2$^-$; 11/2[615] Coriolis-mixed rotational band. T$_{1/2}$: weighted average of 1.67 min *8* (1969Da01), 1.68 min *5* (1970Gu02), and 1.65 min *5* (1970Pa32). Others: 1950Du54, 1955Po26, 1962Ma24.
243.62b *5*	7/2$^-$	19.3 ns *5*	A CD G J	J$^\pi$: 177.6γ M1+E2 to 5/2$^-$, 69.7γ M1+E2 to 7/2$^-$; L=3 in (d,t),(d,p). 7/2[503] band head. T$_{1/2}$: from ^{185}Ta β-decay (1969Ku07).
302@ *6*	(9/2$^-$)		G I	J$^\pi$: L≥5 from (d,t),(d,p). 3/2[512] band member.
334& *6*	(7/2$^-$)		G IJ	J$^\pi$: L=3 in (d,t),(d,p). 1/2[510] band member.
384a *6*	(13/2$^+$)		GH J	J$^\pi$: L=6 in (^{3}He,α); 11/2[615] band member.
390.92b *11*	(9/2$^-$)		A C G	XREF: G(391).

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Adopted Levels, Gammas (continued)

^{185}W Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF	Comments
			J$^{\pi}$: 147.3γ (M1+E2) to 7/2$^-$. 7/2[503] band member.
≈478[@]	(11/2$^-$)	G	
≈492[&]	(9/2$^-$)	G	
≈570[b]	(11/2$^-$)	G	J$^{\pi}$: L≥5 in (d,t),(d,p).
663.49 *4*	3/2$^-$	CDEFG J	J$^{\pi}$: J^{π}=1/2$^-$,3/2$^-$ from (n,γ) E=2,24 keV res: av.; L=1 in (d,t),(d,p); populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 7/2$^-$ states.
706[&] *6*	(11/2$^-$)	G	
716[c] *6*	(9/2$^+$)	GH	J$^{\pi}$: 9/2[624] Coriolis-mixed rotational band member.
729.90 *4*	3/2$^-$	CDE G J	XREF: G(733)J(733). J$^{\pi}$: J^{π}=1/2,3/2 from (n,γ) E=2,24 keV res: av.; L=1,(3) in (d,t),(d,p). populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 7/2$^-$ states.
768.22 *5*	1/2$^-$,3/2$^-$	CDEF	J$^{\pi}$: (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 5/2$^-$ states.
774[#] *1*	1/2,3/2,5/2$^+$	C	J$^{\pi}$: populated by primary transitions in ^{184}W(n,γ) E=thermal.
785.3[d] *4*	(9/2$^-$)	A G J	XREF: J(789). J$^{\pi}$: L≥5,L=3 in (d,t),(d,p); 394.4γ to (9/2$^-$), 541.7γ to 7/2$^-$.
≈801		G J	
822.71 *5*	1/2$^-$,3/2$^-$	CDEF	J$^{\pi}$: (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 5/2$^-$ states.
827.41 *5*	(1/2$^-$,3/2$^-$)	DEFG	J$^{\pi}$: (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$.
842.0 *9*	(5/2)	E	J$^{\pi}$: (n,γ) E=2,24 keV res: av.
888.6[e] *5*	5/2$^-$	E G	J$^{\pi}$: L=3 in (d,t),(d,p). 5/2[512] rotational band head.
904 *6*		G	
917.55 *6*	1/2,3/2	DE	J$^{\pi}$: (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.
921 *6*		G	
967.78 *10*	(1/2$^-$,3/2)[m]	D	
971		F	
979.28 *15*	1/2$^{(-)}$,3/2,5/2$^+$[k]	D	
986[e] *6*	7/2$^-$	G J	J$^{\pi}$: L=3 in (d,t),(d,p). 5/2[512] band member.
1005.59[f] *10*	1/2$^-$	CDEFG	XREF: G(1008). J$^{\pi}$: J^{π}=1/2$^-$,3/2$^-$ from (n,γ) E=2,24 keV res: av.; L=1 in (d,t),(d,p); 1/2[521] rotational band.
1013[h] *6*	1/2$^-$	G	J$^{\pi}$: L=1 in (d,t),(d,p). K-2 γ-vibrational band based on the g.s.
1020[c] *6*	(13/2$^+$)	GH	J$^{\pi}$: L=6 in (^{3}He,α). 9/2[624] band member.
1035.79[h] *10*	3/2$^-$	DE G	J$^{\pi}$: J^{π}=1/2$^-$,3/2$^-$ from (n,γ) E=2,24 keV res: av.; L=1 in (d,t),(d,p). K=1/2 γ band member.
1041.70 *15*	(3/2$^-$,5/2$^+$)[l]	D	
1058.7[g] *18*	7/2$^-$	A G j	XREF: G(1058)j(1061). J$^{\pi}$: log *ft*=7.6 from ^{185}Ta (J^{π}=7/2$^+$) β^- decay, L=3 in (d,t),(d,p). 7/2[514] rotational band head.
1062.5 *4*	(5/2$^+$)	C j	XREF: j(1061). E(level): not observed (n,γ) E=thermal: γ coin; or (n,γ) E=2,24 keV res: av. J$^{\pi}$: populated by primary transitions in ^{184}W(n,γ) E=thermal, 888.8γ to 7/2$^-$.
1068.20 *12*	3/2$^-$	DE	J$^{\pi}$: J=1/2$^-$,3/2$^-$ from (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 7/2$^-$ states.

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Adopted Levels, Gammas (continued)

^{185}W Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF		Comments
1073[h] 6	(5/2$^-$)	G		J$^{\pi}$: L=3,1 in (d,t),(d,p). K=1/2 γ band member.
1077.30 20	(3/2$^-$,5/2$^+$)[l]	D		
1086.80 20	(3/2$^-$,5/2$^+$)[l]	D		
1101.40 10	3/2$^-$	DEF		J$^{\pi}$: J=1/2$^-$,3/2$^-$ from (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 7/2$^-$ states.
1106[f] 6	3/2$^-$	G		J$^{\pi}$: L=1,3 in (d,t),(d,p). 1/2[521] band member.
1107 6		G		
1118[f] 6	(5/2$^-$)	g	J	XREF: g(1118). J$^{\pi}$: L=3 in (d,t),(d,p). 1/2[521] band member.
≈1118[e]	(9/2$^-$)	g	J	XREF: g(1118). J$^{\pi}$: 5/2[512] band member.
1120 6		G		
1145.29 20	(1/2$^-$,3/2$^-$)	DE	j	XREF: j(1149). J$^{\pi}$: (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$.
1147.32 21	(3/2$^-$,5/2$^+$)[l]	D FG	j	XREF: j(1149).
1154[h] 6	(7/2$^-$)	G		J$^{\pi}$: L=3,1 in (d,t),(d,p). K=1/2 γ band member.
1181.35 8	1/2$^-$	CDE G	J	J$^{\pi}$: res: av.; J^{π} not 3/2$^-$ from ^{184}W(pol d,p); populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 5/2$^-$ states.
1218.96 8	3/2$^-$	CDEFG	J	XREF: G(1222). J$^{\pi}$: J^{π}=1/2$^-$,3/2$^-$ from (n,γ) E=2,24 keV res: av.; J^{π} not 1/2$^-$ from ^{184}W(pol d,p). populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 7/2$^-$ states.
≈1219[g]	(9/2$^-$)	G		J$^{\pi}$: L≥5 in (d,t),(d,p). 7/2[514] band member.
1246[#] 1		C		
≈1279		G		
1284.10 21	1/2,3/2,5/2$^+$[i]	D g	j	XREF: g(1290)j(1290).
1286.57 9	1/2$^-$,3/2$^-$	CDE g	j	XREF: g(1290)j(1290). J$^{\pi}$: J^{π}=1/2$^-$,3/2$^-$ from (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^{π}=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 5/2$^-$.
1312.61 20	1/2,3/2,5/2$^+$[i]	D		
1317 6		G	J	Doublet observed in (d,p) and (d,t).
1327.71 20	1/2,3/2,5/2$^+$[i]	D		
1335[f] 6	(7/2$^-$)	G		J$^{\pi}$: 1/2[521] band member.
1343 6		G		
1346 6		G		
1353.41 20	1/2,3/2,5/2$^+$[i]	D		
1359.2[#] 10		C		
1361[f] 6	(9/2$^-$)	G		J$^{\pi}$: 1/2[521] band member.
1365.6 6	(1/2$^-$,3/2$^-$)	E		J$^{\pi}$: (n,γ) E=2,24 keV res: av. Parities were determined from ratios between reduced γ-ray intensities for the 2-keV and 24-keV n-capture.
1369.98 15	1/2$^{(-)}$,3/2,5/2$^+$[k]	D		
1382 6		G		
1400.99 21	1/2,3/2,5/2$^+$[i]	D		
≈1402		G		
≈1410		G		
1424.5 5	(5/2)	E		J$^{\pi}$: (n,γ) E=2,24 keV res: av. Populated from 24-keV resonance only.
1428 6		G		
1441.15 9	1/2$^-$,3/2$^-$	CDE		J$^{\pi}$: (n,γ) E=2,24 keV res: av.; populated by γ-transition from the

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Adopted Levels, Gammas (continued)

^{185}W Levels (continued)

E(level)†	Jπ‡	XREF	Comments
			neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 5/2$^-$.
1443.09 *15*	(1/2$^-$,3/2)[m]	D	
1445 *6*		G	
1448 *6*		G	
1496.39 *9*	1/2$^-$,3/2$^-$	DEFG	XREF: G(1501). Jπ: (n,γ) E=2,24 keV res: av.; populated by γ-transition from the neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 5/2$^-$.
1503.84 *15*	1/2,3/2,5/2$^+$[i]	CD G	
1535.25 *8*	(1/2$^-$,3/2)[m]	CD FG	
1561 *6*	(13/2$^+$)	GH	Jπ: L=6 in (^{3}He,α). N=6 ($i_{13/2}$) strongly Coriolis-mixed state.
1561 *6*		G	Jπ: L=(3) in (d,t),(d,p).
1562.40 *15*	(1/2,3/2)[j]	D	
1570.50 *21*	1/2,3/2,5/2$^+$[i]	D	
1572.56 *8*	(3/2$^-$)[n]	CD	
1576.99 *21*	1/2,3/2,5/2$^+$[i]	D	
1603 *6*		G	
1612.73 *12*	(3/2$^-$,5/2$^+$)[l]	D	
1623 *6*		G	
1627 *10*		G	
1643.88 *9*	(1/2$^-$,3/2)[m]	D	
1650.31 *21*	1/2,3/2,5/2$^+$[i]	D G	XREF: G(1646).
1658.39 *10*	(1/2$^-$,3/2)[m]	CD	
1663 *6*		G	
1666 *6*	(9/2$^+$)	GH	Jπ: (d,t),(d,p).
1669.98 *20*	1/2$^{(-)}$,3/2,5/2$^+$[k]	D	
1673.97 *9*	(1/2$^-$,3/2)[m]	D	
1677 *6*		G	
1683.89 *20*	(1/2,3/2)[j]	D G	
1686.81 *20*	(3/2$^-$,5/2$^+$)[l]	D	
1689.64 *15*	1/2,3/2,5/2$^+$[i]	D	
1694.59 *21*	1/2,3/2,5/2$^+$[i]	D	
1699 *6*		G	
1701 *10*		G	
1716.78 *20*	1/2$^{(-)}$,3/2,5/2$^+$[k]	D	
1718.66 *7*	(3/2$^-$)[n]	D G	XREF: G(1722).
1728.90 *15*	1/2$^{(-)}$,3/2,5/2$^+$[k]	D G	
1735.05 *21*	1/2,3/2,5/2$^+$[i]	D	
1739.41 *20*	1/2,3/2,5/2$^+$[i]	D	
1746.91 *20*	(3/2$^-$,5/2$^+$)[l]	D G	XREF: G(1745).
1753.59 *21*	1/2,3/2,5/2$^+$[i]	D	
1774.69 *12*	(1/2$^-$,3/2)[m]	D	
1795.25 *15*	(1/2,3/2)[j]	D	
1797.26 *7*	(3/2$^-$)[n]	D G	XREF: G(1800).
1826.09 *20*	1/2$^{(-)}$,3/2,5/2$^+$[k]	D	
≈1830		G	
1839.05 *7*	(3/2$^-$)[n]	D	
1842.36 *8*	(1/2$^-$,3/2)[m]	D F	
1845.45 *15*	1/2,3/2,5/2$^+$[i]	D G	
1846 *10*	(13/2$^+$)	GH	Jπ: L=6 in (^{3}He,α).
1851.45 *10*	1/2$^{(-)}$,3/2,5/2$^+$[k]	D	

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Adopted Levels, Gammas (continued)

^{185}W Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF	Comments
1860 *10*		G	
1866.89 *12*	(1/2,3/2)[j]	D	
1874 *10*		G	
1882.86 *9*	1/2$^{(-)}$,3/2,5/2^{+}[k]	CD	
1888.21 *20*	1/2,3/2,5/2^{+}[i]	D G	XREF: G(1886).
1906.71 *20*	1/2,3/2,5/2^{+}[i]	D G	XREF: G(1904).
1915 *10*		G	
1921.88 *12*	(1/2^{-},3/2)[m]	D	
1926.08 *15*	1/2,3/2,5/2^{+}[i]	D	
1931.30 *10*	(1/2^{-},3/2)[m]	D	
1935.41 *20*	1/2,3/2,5/2^{+}[i]	D G	XREF: G(1937).
1949.27 *15*	1/2,3/2,5/2^{+}[i]	D	
1952.86 *10*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D G	
1956.17 *8*	(1/2^{-},3/2)[m]	D	
1959 *10*		G	
1972.31 *20*	1/2,3/2,5/2^{+}[i]	D	
1976.68 *9*	(1/2^{-},3/2)[m]	D	
1979.50 *15*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
1984.56 *15*	(1/2,3/2)[j]	D	
1986 *10*		G	
1991.38 *20*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
1999.50 *10*	(1/2^{-},3/2)[m]	D	
2003.49 *20*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2007.00 *15*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2009.46 *15*	(1/2,3/2)[j]	D	
2031 *10*		G	
2037.98 *9*	(1/2^{-},3/2)[m]	D G	
2043.48 *20*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2062.08 *20*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2067.05 *8*	(1/2^{-},3/2)[m]	D	
2073.89 *15*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2078.57 *12*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2081.48 *20*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2094.88 *20*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2097.50 *15*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2108.90 *21*	1/2,3/2,5/2^{+}[i]	D	
2117.00 *20*	(1/2,3/2)[j]	D	
2122.68 *20*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2130.59 *11*	(1/2,3/2)[j]	D	
2135.05 *21*	1/2,3/2,5/2^{+}[i]	D	
2138.17 *12*	1/2$^{(-)}$,3/2,5/2^{+}[k]	D	
2142.51 *15*	1/2,3/2,5/2^{+}[i]	D	
2150.35 *9*	(3/2^{-},5/2^{+})[l]	D	
2153.80 *20*	(1/2,3/2)[j]	D	
2157.60 *20*	(1/2,3/2)[j]	D	
2161.00 *21*	1/2,3/2,5/2^{+}[i]	D	
2164.40 *12*	(1/2,3/2)[j]	D	

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Adopted Levels, Gammas (continued)

^{185}W Levels (continued)

E(level)†	Jπ‡	XREF	E(level)†	Jπ‡	XREF
2178.39 *9*	$(1/2^-,3/2)^m$	D	2460.78 *9*	$(1/2,3/2)^j$	D
2186.49 *15*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2466.30 *20*	$(1/2,3/2)^j$	D
2191.17 *12*	$1/2,3/2,5/2^+{}^i$	D	2470.56 *11*	$1/2^{(-)},3/2,5/2^+{}^k$	D
2195.00 *21*	$1/2,3/2,5/2^+{}^i$	D	2475.11 *12*	$(1/2^-,3/2)^m$	D
2206.29 *20*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2479.68 *9*	$(1/2^-,3/2)^m$	D
2210.67 *12*	$(1/2,3/2)^j$	D	2483.42 *20*	$1/2,3/2,5/2^+{}^i$	D
2216.91 *12*	$(3/2^-,5/2^+)^l$	D	2485.29 *9*	$(1/2^-,3/2)^m$	D
2226.00 *9*	$(1/2^-,3/2)^m$	D	2499.80 *12*	$1/2^{(-)},3/2,5/2^+{}^k$	D
2233.21 *20*	$1/2,3/2,5/2^+{}^i$	D	2502.90 *15*	$(1/2^-,3/2)^m$	D
2236.80 *12*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2508.80 *21*	$1/2,3/2,5/2^+{}^i$	D
2240.90 *12*	$(3/2^-)^n$	D	2513.40 *15*	$(1/2^-,3/2)^m$	D
2249.00 *15*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2517.28 *11*	$(3/2^-)^n$	D
2252.80 *20*	$(1/2,3/2)^j$	D	2520.58 *12*	$(1/2^-,3/2)^m$	D
2254.78 *9*	$(3/2^-)^n$	D	2528.18 *15*	$1/2,3/2,5/2^+{}^i$	D
2268.07 *9*	$(1/2,3/2)^j$	D	2548.11 *15*	$(1/2,3/2)^j$	D
2275.17 *12*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2551.92 *20*	$1/2,3/2,5/2^+{}^i$	D
2277.21 *15*	$1/2,3/2,5/2^+{}^i$	D	2554.99 *20*	$1/2^{(-)},3/2,5/2^+{}^k$	D
2284.37 *9*	$(1/2^-,3/2)^m$	D	2559.96 *9*	$(1/2^-,3/2)^m$	D
2288.39 *15*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2567.70 *21*	$1/2,3/2,5/2^+{}^i$	D
2292.50 *15*	$(1/2,3/2)^j$	D	2574.67 *9*	$(1/2^-,3/2)^m$	D
2294.90 *12*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2577.54 *21*	$1/2,3/2,5/2^+{}^i$	D
2312.10 *12*	$(1/2^-,3/2)^m$	D	2582.41 *12*	$(1/2,3/2)^j$	D
2315.07 *10*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2590.11 *12*	$(1/2^-,3/2)^m$	D
2327.32 *20*	$1/2,3/2,5/2^+{}^i$	D	2600.72 *20*	$1/2,3/2,5/2^+{}^i$	D
2334.81 *15*	$1/2,3/2,5/2^+{}^i$	D	2604.57 *9*	$(1/2^-,3/2)^m$	D
2339.17 *8*	$(3/2^-)^n$	D	2609.79 *9*	$(1/2^-,3/2)^m$	D
2350.00 *20*	$(1/2,3/2)^j$	D	2612.81 *15*	$(1/2,3/2)^j$	D
2353.14 *21*	$1/2,3/2,5/2^+{}^i$	D	2615.79 *20*	$1/2^{(-)},3/2,5/2^+{}^k$	D
2363.29 *20*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2619.99 *20*	$1/2^{(-)},3/2,5/2^+{}^k$	D
2367.65 *8*	$(1/2^-,3/2)^m$	D	2623.51 *15*	$(1/2,3/2)^j$	D
2370.60 *15*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2626.12 *20*	$1/2,3/2,5/2^+{}^i$	D
2375.85 *10*	$(3/2^-,5/2^+)^l$	D	2628.80 *15*	$(1/2^-,3/2)^m$	D
2379.66 *8*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2632.19 *9*	$(1/2^-,3/2)^m$	D
2384.28 *10*	$(1/2,3/2)^j$	D	2638.81 *20*	$(1/2,3/2)^j$	D
2391.00 *12*	$1/2^{(-)},3/2,5/2^+{}^k$	D	2641.62 *20*	$1/2,3/2,5/2^+{}^i$	D
2401.10 *10*	$(1/2^-,3/2)^m$	D	2645.36 *9*	$1/2^{(-)},3/2,5/2^+{}^k$	D
2407.37 *7*	$(3/2^-)^n$	D	2649.71 *20*	$(1/2,3/2)^j$	D
2415.15 *11*	$1/2,3/2,5/2^+{}^i$	D	2651.70 *12*	$1/2^{(-)},3/2,5/2^+{}^k$	D
2418.08 *15*	$(3/2^-,5/2^+)^l$	D	2653.21 *20*	$(1/2,3/2)^j$	D
2422.42 *20*	$1/2,3/2,5/2^+{}^i$	D	2654.32 *20*	$1/2,3/2,5/2^+{}^i$	D
2425.00 *12*	$(1/2^-,3/2)^m$	D	2654.67 *11*	$1/2^{(-)},3/2,5/2^+{}^k$	D
2434.32 *20*	$1/2,3/2,5/2^+{}^i$	D	2657.72 *20*	$1/2,3/2,5/2^+{}^i$	D
2439.90 *20*	$(1/2,3/2)^j$	D	2663.19 *9*	$(1/2^-,3/2)^m$	D
2442.20 *10*	$(1/2^-,3/2)^m$	D	2667.51 *12*	$(1/2,3/2)^j$	D
2450.61 *15*	$(1/2,3/2)^j$	D	2670.81 *12*	$(1/2^-,3/2)^m$	D
2453.21 *12*	$1(1/2,3/2)^j$	D	2675.11 *15*	$(1/2,3/2)^j$	D
2459.32 *20*	$1/2,3/2,5/2^+{}^i$	D	2679.61 *20*	$(1/2,3/2)^j$	D

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{185}W Levels (continued)

E(level)†	Jπ‡	XREF	E(level)†	Jπ‡	XREF
2682.41 *12*	(1/2,3/2)^{j}	D	2872.11 *12*	(1/2$^-$,3/2)^{m}	D
2685.34 *12*	1/2,3/2,5/2,5/2^{+i}	D	2874.80 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2695.27 *12*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	2881.19 *10*	(1/2$^-$,3/2)^{m}	D
2697.41 *15*	(3/2$^-$,5/2$^+$)^{l}	D	2882.00 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2703.20 *21*	1/2,3/2,5/2,5/2^{+i}	D	2892.20 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2706.67 *12*	(1/2$^-$,3/2)^{m}	D	2902.09 *10*	(1/2,3/2)^{j}	D
2709.91 *12*	(1/2$^-$,3/2)^{m}	D	2910.10 *9*	(1/2$^-$,3/2)^{m}	D
2712.79 *9*	(3/2$^-$)^{n}	D	2913.21 *15*	(1/2$^-$,3/2)^{m}	D
2716.75 *21*	1/2,3/2,5/2,5/2^{+i}	D	2914.19 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2718.20 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	2921.71 *12*	(1/2$^-$,3/2)^{m}	D
2722.60 *12*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	2928.41 *12*	(1/2$^-$,3/2)^{m}	D
2725.60 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	2933.81 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2727.81 *12*	(1/2,3/2)^{j}	D	2943.81 *12*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2730.62 *20*	1/2,3/2,5/2,5/2^{+i}	D	2944.74 *21*	1/2,3/2,5/2,5/2^{+i}	D
2737.41 *10*	(1/2$^-$,3/2)^{m}	D	2950.05 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2740.40 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	2956.10 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2751.81 *12*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	2964.40 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2756.21 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	2966.90 *21*	1/2,3/2,5/2,5/2^{+i}	D
2760.42 *15*	(1/2,3/2)^{j}	D	2977.40 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2765.09 *9*	(3/2$^-$)^{n}	D	2985.51 *12*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D
2770.30 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	2990.66 *9*	(1/2$^-$,3/2)^{m}	D
2772.07 *12*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	3004.79 *10*	(1/2$^-$,3/2)^{m}	D
2778.00 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	3010.34 *15*	1/2,3/2,5/2,5/2^{+i}	D
2782.59 *15*	1/2,3/2,5/2,5/2^{+i}	D	3033.20 *21*	1/2,3/2,5/2,5/2^{+i}	D
2785.00 *11*	(1/2,3/2)^{j}	D	3037.21 *12*	(1/2$^-$,3/2)^{m}	D
2787.82 *20*	1/2,3/2,5/2,5/2^{+i}	D	3047.60 *15*	1/2,3/2,5/2,5/2^{+i}	D
2790.20 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	3052.98 *9*	1/2,3/2,5/2,5/2^{+i}	D
2794.38 *12*	(3/2$^-$)^{n}	D	3064.06 *21*	1/2,3/2,5/2,5/2^{+i}	D
2796.56 *12*	1/2,3/2,5/2,5/2^{+i}	D	3068.96 *21*	1/2,3/2,5/2,5/2^{+i}	D
2799.01 *20*	(1/2,3/2)^{j}	D	3087.72 *15*	(1/2,3/2)^{j}	D
2804.07 *9*	(1/2$^-$,3/2)^{m}	D	3091.90 *21*	1/2,3/2,5/2,5/2^{+i}	D
2812.41 *15*	(1/2$^-$,3/2)^{m}	D	3094.80 *15*	1/2,3/2,5/2,5/2^{+i}	D
2815.21 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	3099.82 *21*	1/2,3/2,5/2,5/2^{+i}	D
2821.41 *20*	(1/2,3/2)^{j}	D	3106.32 *21*	1/2,3/2,5/2,5/2^{+i}	D
2835.98 *11*	(1/2$^-$,3/2)^{m}	D	3124.44 *21*	1/2,3/2,5/2,5/2^{+i}	D
2838.03 *15*	1/2,3/2,5/2,5/2^{+i}	D	3200.36 *21*	1/2,3/2,5/2,5/2^{+i}	D
2839.80 *20*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	3241.56 *21*	1/2,3/2,5/2,5/2^{+i}	D
2856.81 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	3249.46 *21*	1/2,3/2,5/2,5/2^{+i}	D
2866.61 *15*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	3262.97 *15*	1/2,3/2,5/2,5/2^{+i}	D
2868.85 *9*	1/2$^{(-)}$,3/2,5/2,5/2^{+k}	D	3276.86 *21*	1/2,3/2,5/2,5/2^{+i}	D

† From least-squares fit to Eγ′s by evaluator. 0.2 keV uncertainty assumed for Eγ′s from ^{184}W(n,γ) E=thermal: γ coin.

‡ Nilsson orbital assignments are based on the comparison of experimental (d,p) and (d,t) cross sections with values calculated using the DWBA approximation and Nilsson′s model, and on the energy systematics of Nilsson orbitals in odd-A tungsten nuclei. J^{π} assignments are based on rotational structure, on γ-ray multipolarities and decay patterns. States populated by γ-transition

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{185}W Levels (continued)

from the neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin. are expected to have spins of 1/2, 3/2 or 5/2$^+$, and also used for J^π assignment. Average resonance capture in ^{184}W(n,γ) E=2,24 keV is expected to populate all low-lying states with J^π=1/2, 3/2 or 5/2, and is also used as argument for J^π assignment. Assignments from (d,t),(d,p), and (^{3}He,α) reactions are based on measured L-value transfers, and on the comparison of experimental cross sections with values calculated using the DWBA approximation and Nilsson model. See ^{186}W(d,t), ^{184}W(d,p) for uncertainties of L-value transfers.

[#] From ^{184}W(n,γ) E=thermal.

[@] Band(A): 3/2(512) rotational band. Rotational parameters: A=14.6, B=−10.8 from 3/2, 5/2, 7/2 levels.

[&] Band(B): 1/2(510) rotational band. Rotational parameters: A=21.1, a=0.103 from 1/2, 3/2, 5/2 levels.

[a] Band(C): 11/2(615) Coriolis-mixed rotational band.

[b] Band(D): 7/2(503) rotational band. Rotational parameters: A=16.4, B=−4.7 from 7/2, 9/2, 11/2 levels.

[c] Band(E): 9/2(624) Coriolis-mixed rotational band.

[d] Band(F): possible 9/2(505) band head.

[e] Band(G): 5/2(512) rotational band. Rotational parameters: A=13.3, B=47.0 from 5/2, 7/2, 9/2 levels.

[f] Band(H): 1/2(521) rotational band. Rotational parameters: A=17.7, a=+0.865 from 1/2, 3/2, 5/2 levels.

[g] Band(I): 7/2(514) rotational band. Rotational parameters: A≈18 from 7/2 and 9/2 levels.

[h] Band(J): K=1/2$^-$ γ band, based on g.s.

[i] Populated by γ-transition from the neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin.

[j] Populated by γ-transition from the neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$.

[k] Populated by γ-transition from the neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 5/2$^-$.

[l] Populated by γ-transition from the neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 7/2$^-$.

[m] Populated by γ-transition from the neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 5/2$^-$.

[n] Populated by γ-transition from the neutron-capture state (J^π=1/2$^+$) in (n,γ) E=thermal: γ coin.; γ to 1/2$^-$ and 7/2$^-$.

Adopted Levels, Gammas (continued)

$\gamma(^{185}W)$

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ[‡]	α[a]	$I_{(\gamma+ce)}$	Comments
23.547	1/2−	23.54[#] *5*	100[#]	0.0	3/2−	(M1+E2)	0.10 *3*	93 *23*		
65.854	5/2−	42.29[#] *5*	1.3[#] *4*	23.547	1/2−	E2		189		
		65.86[#] *3*	100[#] *5*	0.0	3/2−	M1+E2	1.1 *3*	13 *3*		
93.295	3/2−	69.7[#] *3*		23.547	1/2−				1.84×10^3 *26*	$I_{(\gamma+ce)}$: from ^{185}W IT decay (1.67 min).
		93.30[#] *5*	100[#] *34*	0.0	3/2−					
173.702	7/2−	107.85[#] *2*	12.4[#] *9*	65.854	5/2−	M1+E2	1.2 *+6−3*	3.36 *10*		B(M1)(W.u.)≥0.00012; B(E2)(W.u.)≥8.4
		173.68[#] *2*	100[#] *3*	0.0	3/2−	E2		0.504		B(E2)(W.u.)≥18
187.878	5/2−	94.59[#] *4*	12.9[#] *9*	93.295	3/2−					
		122.05[#] *7*	12.5[#] *9*	65.854	5/2−					
		164.33[#] *2*	72[#] *3*	23.547	1/2−					
		187.88[#] *2*	100[#] *4*	0.0	3/2−					
197.383	11/2+	(9.53 *6*)		187.878	5/2−	[E3]		4.0×10^7	75 *5*	B(E3)(W.u.)=0.00066 *5* $I_{(\gamma+ce)}$: from ^{185}W IT decay (1.67 min).
		23.54[#] *5*	0.018[#] *6*	173.702	7/2−	[M2]		8.7×10^3		B(M2)(W.u.)=1.0×10^{-8} *4*
		131.55[#] *2*	100[#] *3*	65.854	5/2−	E3		19.8		B(E3)(W.u.)=0.00038 *3*
243.62	7/2−	69.7[@] *3*	7.8[@] *10*	173.702	7/2−	M1+E2	0.27 *6*	14.3 *3*		B(M1)(W.u.)=7.4×10^{-5} *12*; B(E2)(W.u.)=0.46 *21*
		150.3[@] *2*	0.48[@] *12*	93.295	3/2−	[E2]		0.844		B(E2)(W.u.)=0.0089 *23*
		177.59[@] *8*	100.0[@] *14*	65.854	5/2−	M1(+E2)	0.3 *+4−3*	0.92 *9*		B(M1)(W.u.)=5.7×10^{-5} *14*; B(E2)(W.u.)≤0.27
		243.7[@] *3*	14.6[@] *11*	0.0	3/2−	[E2]		0.163		B(E2)(W.u.)=0.0242 *24*
390.92	(9/2−)	147.3[@] *1*	100[@]	243.62	7/2−	(M1+E2)	0.8 *6*	1.34 *19*		
663.49	3/2−	419.40	54.3 *16*	243.62	7/2−					
		475.20	23.1 *19*	187.878	5/2−					
		569.79	100.0 *22*	93.295	3/2−					
		597.22	53.4 *16*	65.854	5/2−					
		639.54	95.2 *16*	23.547	1/2−					
		663.10	95.0 *16*	0.0	3/2−					
729.90	3/2−	485.90	36.1 *25*	243.62	7/2−					
		636.29	100 *7*	93.295	3/2−					
		663.72	74 *4*	65.854	5/2−					
		706.04	61 *3*	23.547	1/2−					
		729.60	20.2 *25*	0.0	3/2−					
768.22	1/2−,3/2−	674.39	63 *25*	93.295	3/2−					
		701.82	15 *12*	65.854	5/2−					
		744.14	100.0 *22*	23.547	1/2−					
		767.70	54 *17*	0.0	3/2−					

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Adopted Levels, Gammas (continued)

$\gamma(^{185}W)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π
785.3	(9/2$^-$)	394.4[@] *5*	100[@] *33*	390.92	(9/2$^-$)
		541.7[@] *5*	100[@] *33*	243.62	7/2$^-$
822.71	1/2$^-$,3/2$^-$	729.29	3.5 *4*	93.295	3/2$^-$
		756.72	59.2 *12*	65.854	5/2$^-$
		799.04	3.0 *4*	23.547	1/2$^-$
		822.60	100.0 *16*	0.0	3/2$^-$
827.41	(1/2$^-$,3/2$^-$)	733.69	97 *13*	93.295	3/2$^-$
		803.44	100 *13*	23.547	1/2$^-$
917.55	1/2,3/2	824.19	100 *11*	93.295	3/2$^-$
		917.50	36 *11*	0.0	3/2$^-$
967.78	(1/2$^-$,3/2)	779.90	80 *8*	187.878	5/2$^-$
		874.49	34 *3*	93.295	3/2$^-$
		901.92	29 *3*	65.854	5/2$^-$
		944.24	100 *5*	23.547	1/2$^-$
979.28	1/2$^{(-)}$,3/2,5/2$^+$	791.40	100 *17*	187.878	5/2$^-$
		913.42	13 *4*	65.854	5/2$^-$
1005.59	1/2$^-$	912.29	100.0 *14*	93.295	3/2$^-$
		939.72	3.45 *19*	65.854	5/2$^-$
		982.04	5.79 *22*	23.547	1/2$^-$
		1005.60	33.5 *7*	0.0	3/2$^-$
1035.79	3/2$^-$	847.90	13 *6*	187.878	5/2$^-$
		942.49	100 *8*	93.295	3/2$^-$
		1012.24	35 *4*	23.547	1/2$^-$
		1035.80	45 *4*	0.0	3/2$^-$
1041.70	(3/2$^-$,5/2$^+$)	868.00	9 *2*	173.702	7/2$^-$
		948.39	100 *9*	93.295	3/2$^-$
1058.7	7/2$^-$	965[@] *3*	39[@] *12*	93.295	3/2$^-$
		993[@] *3*	100[@] *33*	65.854	5/2$^-$
		1059[@] *3*	100[@] *33*	0.0	3/2$^-$
1062.5	(5/2$^+$)	239.5[&] *9*	5.3[&]	822.71	1/2$^-$,3/2$^-$
		888.8[&] *4*	100[&]	173.702	7/2$^-$
1068.20	3/2$^-$	894.50	6.1 *15*	173.702	7/2$^-$
		974.89	100 *9*	93.295	3/2$^-$
		1044.64	47 *6*	23.547	1/2$^-$
1077.30	(3/2$^-$,5/2$^+$)	903.60	100	173.702	7/2$^-$
1086.80	(3/2$^-$,5/2$^+$)	913.10	100	173.702	7/2$^-$
1101.40	3/2$^-$	927.70	23 *14*	173.702	7/2$^-$
		1008.09	100 *11*	93.295	3/2$^-$
		1077.84	63 *6*	23.547	1/2$^-$
		1101.40	17 *4*	0.0	3/2$^-$
1145.29	(1/2$^-$,3/2$^-$)	1121.74	100	23.547	1/2$^-$
1147.32	(3/2$^-$,5/2$^+$)	903.70	100	243.62	7/2$^-$
1181.35	1/2$^-$	353.90	3.9 *4*	827.41	(1/2$^-$,3/2$^-$)
		451.40	34.7 *13*	729.90	3/2$^-$
		517.80	19.2 *21*	663.49	3/2$^-$
		1088.09	22.0 *8*	93.295	3/2$^-$
		1115.52	11.7 *4*	65.854	5/2$^-$
		1157.84	39.8 *9*	23.547	1/2$^-$
		1181.40	100.0 *9*	0.0	3/2$^-$
1218.96	3/2$^-$	391.50	2.3 *3*	827.41	(1/2$^-$,3/2$^-$)
		555.40	12.4 *25*	663.49	3/2$^-$
		975.30	15.2 *16*	243.62	7/2$^-$
		1031.10	62.5 *16*	187.878	5/2$^-$
		1125.69	100.0 *23*	93.295	3/2$^-$
		1153.12	40.5 *19*	65.854	5/2$^-$
		1195.44	79.9 *6*	23.547	1/2$^-$
		1219.00	15.2 *6*	0.0	3/2$^-$
1284.10	1/2,3/2,5/2$^+$	554.20	100	729.90	3/2$^-$
1286.57	1/2$^-$,3/2$^-$	556.60	49 *6*	729.90	3/2$^-$
		1098.70	98 *6*	187.878	5/2$^-$
		1193.29	46 *3*	93.295	3/2$^-$
		1220.72	23.2 *21*	65.854	5/2$^-$
		1263.04	38.9 *21*	23.547	1/2$^-$
		1286.60	100 *4*	0.0	3/2$^-$
1312.61	1/2,3/2,5/2$^+$	1312.60	100	0.0	3/2$^-$
1327.71	1/2,3/2,5/2$^+$	1327.70	100	0.0	3/2$^-$
1353.41	1/2,3/2,5/2$^+$	1353.40	100	0.0	3/2$^-$
1369.98	1/2$^{(-)}$,3/2,5/2$^+$	1276.69	100 *43*	93.295	3/2$^-$
		1304.12	100 *43*	65.854	5/2$^-$
1400.99	1/2,3/2,5/2$^+$	1307.69	100	93.295	3/2$^-$
1441.15	1/2$^-$,3/2$^-$	613.70	8.4 *7*	827.41	(1/2$^-$,3/2$^-$)
		672.81	13.1 *14*	768.22	1/2$^-$,3/2$^-$
		1347.89	56.6 *13*	93.295	3/2$^-$
		1375.32	1.2 *4*	65.854	5/2$^-$
		1417.64	100.0 *22*	23.547	1/2$^-$
		1441.20	31.8 *9*	0.0	3/2$^-$
1443.09	(1/2$^-$,3/2)	1377.22	14.9 *25*	65.854	5/2$^-$
		1419.54	100 *11*	23.547	1/2$^-$
1496.39	1/2$^-$,3/2$^-$	1308.50	23 *3*	187.878	5/2$^-$
		1403.09	100 *4*	93.295	3/2$^-$

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Adopted Levels, Gammas (continued)

$\gamma(^{185}W)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
1496.39	1/2⁻,3/2⁻	1430.52	13.3 *25*	65.854	5/2⁻
		1472.84	56 *3*	23.547	1/2⁻
		1496.40	17.5 *25*	0.0	3/2⁻
1503.84	1/2,3/2,5/2⁺	840.30	100 *13*	663.49	3/2⁻
		1410.59	24 *4*	93.295	3/2⁻
1535.25	(1/2⁻,3/2)	617.70	10 *3*	917.55	1/2,3/2
		707.80	25.7 *18*	827.41	(1/2⁻,3/2⁻)
		805.30	90 *4*	729.90	3/2⁻
		871.70	100 *4*	663.49	3/2⁻
		1441.99	2.7 *5*	93.295	3/2⁻
		1469.42	1.3 *5*	65.854	5/2⁻
		1511.74	12.1 *6*	23.547	1/2⁻
		1535.30	14.0 *8*	0.0	3/2⁻
1562.40	(1/2,3/2)	1469.09	100 *5*	93.295	3/2⁻
		1538.84	9 *3*	23.547	1/2⁻
1570.50	1/2,3/2,5/2⁺	840.60	100	729.90	3/2⁻
1572.56	(3/2⁻)	745.10	44 *12*	827.41	(1/2⁻,3/2⁻)
		842.60	100 *19*	729.90	3/2⁻
		1328.90	32 *5*	243.62	7/2⁻
		1398.90	3.5 *18*	173.702	7/2⁻
		1479.29	18 *5*	93.295	3/2⁻
		1506.72	42 *5*	65.854	5/2⁻
		1549.04	35 *5*	23.547	1/2⁻
		1572.60	33 *5*	0.0	3/2⁻
1576.99	1/2,3/2,5/2⁺	913.50	100	663.49	3/2⁻
1612.73	(3/2⁻,5/2⁺)	949.20	33 *6*	663.49	3/2⁻
		1369.10	100 *5*	243.62	7/2⁻
		1546.92	8.1 *20*	65.854	5/2⁻
1643.88	(1/2⁻,3/2)	816.40	40 *4*	827.41	(1/2⁻,3/2⁻)
		1456.00	9.5 *24*	187.878	5/2⁻
		1550.59	5.9 *18*	93.295	3/2⁻
		1578.02	8.3 *18*	65.854	5/2⁻
		1620.34	18.3 *18*	23.547	1/2⁻
		1643.90	100 *4*	0.0	3/2⁻
1650.31	1/2,3/2,5/2⁺	822.90	100	827.41	(1/2⁻,3/2⁻)
1658.39	(1/2⁻,3/2)	1470.50	14 *5*	187.878	5/2⁻
		1565.09	100 *7*	93.295	3/2⁻
		1634.84	16 *7*	23.547	1/2⁻
		1658.40	26 *7*	0.0	3/2⁻
1669.98	1/2⁽⁻⁾,3/2,5/2⁺	1604.12	100	65.854	5/2⁻
1673.97	(1/2⁻,3/2)	851.23	19 *5*	822.71	1/2⁻,3/2⁻
		944.00	17 *3*	729.90	3/2⁻
1673.97	(1/2⁻,3/2)	1486.10	55 *3*	187.878	5/2⁻
		1580.69	7.6 *23*	93.295	3/2⁻
		1608.12	53 *4*	65.854	5/2⁻
		1650.44	100 *5*	23.547	1/2⁻
1683.89	(1/2,3/2)	1660.34	100	23.547	1/2⁻
1686.81	(3/2⁻,5/2⁺)	1513.10	100	173.702	7/2⁻
1689.64	1/2,3/2,5/2⁺	1026.10	100 *45*	663.49	3/2⁻
		1596.39	30 *15*	93.295	3/2⁻
1694.59	1/2,3/2,5/2⁺	1031.10	100	663.49	3/2⁻
1716.78	1/2⁽⁻⁾,3/2,5/2⁺	1528.90	100	187.878	5/2⁻
1718.66	(3/2⁻)	891.20	42 *3*	827.41	(1/2⁻,3/2⁻)
		950.31	63 *4*	768.22	1/2⁻,3/2⁻
		1055.10	16 *5*	663.49	3/2⁻
		1530.80	30 *3*	187.878	5/2⁻
		1545.00	8.5 *11*	173.702	7/2⁻
		1625.39	52 *3*	93.295	3/2⁻
		1652.82	87 *3*	65.854	5/2⁻
		1695.14	18.0 *21*	23.547	1/2⁻
		1718.70	100 *4*	0.0	3/2⁻
1728.90	1/2⁽⁻⁾,3/2,5/2⁺	1541.00	55 *18*	187.878	5/2⁻
		1728.90	100 *27*	0.0	3/2⁻
1735.05	1/2,3/2,5/2⁺	912.33	100	822.71	1/2⁻,3/2⁻
1739.41	1/2,3/2,5/2⁺	1739.40	100	0.0	3/2⁻
1746.91	(3/2⁻,5/2⁺)	1573.20	100	173.702	7/2⁻
1753.59	1/2,3/2,5/2⁺	1660.29	100	93.295	3/2⁻
1774.69	(1/2⁻,3/2)	1586.80	100 *12*	187.878	5/2⁻
		1681.39	71 *18*	93.295	3/2⁻
		1751.14	82 *18*	23.547	1/2⁻
1795.25	(1/2,3/2)	1065.30	100 *8*	729.90	3/2⁻
		1771.74	9 *5*	23.547	1/2⁻
1797.26	(3/2⁻)	969.80	22 *4*	827.41	(1/2⁻,3/2⁻)
		974.53	21 *5*	822.71	1/2⁻,3/2⁻
		1028.91	13 *4*	768.22	1/2⁻,3/2⁻
		1133.70	41 *9*	663.49	3/2⁻
		1609.40	42 *3*	187.878	5/2⁻
		1623.60	8.7 *10*	173.702	7/2⁻
		1703.99	100 *5*	93.295	3/2⁻
		1731.42	60 *4*	65.854	5/2⁻
		1773.74	58 *5*	23.547	1/2⁻
		1797.30	15 *3*	0.0	3/2⁻
1826.09	1/2⁽⁻⁾,3/2,5/2⁺	1638.20	100	187.878	5/2⁻
1839.05	(3/2⁻)	1016.33	8.0 *21*	822.71	1/2⁻,3/2⁻

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Adopted Levels, Gammas (continued)

$\gamma(^{185}W)$ (continued)

E_i(level)	J^π_i	E_γ†	I_γ†	E_f	J^π_f
1839.05	(3/2⁻)	1070.71	20 *3*	768.22	1/2⁻,3/2⁻
		1175.50	19 *4*	663.49	3/2⁻
		1595.40	15.4 *16*	243.62	7/2⁻
		1651.20	11.7 *16*	187.878	5/2⁻
		1745.79	14.9 *16*	93.295	3/2⁻
		1773.22	42 *3*	65.854	5/2⁻
		1815.54	100 *4*	23.547	1/2⁻
		1839.10	23.4 *21*	0.0	3/2⁻
1842.36	(1/2⁻,3/2)	1014.90	9.5 *24*	827.41	(1/2⁻,3/2⁻)
		1112.40	33 *3*	729.90	3/2⁻
		1178.80	17 *8*	663.49	3/2⁻
		1654.50	8.3 *18*	187.878	5/2⁻
		1749.09	14.3 *18*	93.295	3/2⁻
		1818.84	46 *3*	23.547	1/2⁻
		1842.40	100 *4*	0.0	3/2⁻
1845.45	1/2,3/2,5/2⁺	1181.90	100 *15*	663.49	3/2⁻
		1845.50	15 *3*	0.0	3/2⁻
1851.45	1/2⁽⁻⁾,3/2,5/2⁺	933.90	89 *25*	917.55	1/2,3/2
		1121.50	32 *11*	729.90	3/2⁻
		1187.90	100 *18*	663.49	3/2⁻
		1785.62	18 *7*	65.854	5/2⁻
		1851.50	18 *7*	0.0	3/2⁻
1866.89	(1/2,3/2)	1044.13	100 *18*	822.71	1/2⁻,3/2⁻
		1843.34	45 *8*	23.547	1/2⁻
		1866.90	68 *8*	0.0	3/2⁻
1882.86	1/2⁽⁻⁾,3/2,5/2⁺	1152.90	69 *7*	729.90	3/2⁻
		1219.30	79 *12*	663.49	3/2⁻
		1695.00	100 *6*	187.878	5/2⁻
		1789.59	35 *4*	93.295	3/2⁻
		1817.02	78 *6*	65.854	5/2⁻
		1882.90	59 *6*	0.0	3/2⁻
1888.21	1/2,3/2,5/2⁺	1888.20	100	0.0	3/2⁻
1906.71	1/2,3/2,5/2⁺	1906.70	100	0.0	3/2⁻
1921.88	(1/2⁻,3/2)	1099.13	10 *3*	822.71	1/2⁻,3/2⁻
		1734.00	3.8 *16*	187.878	5/2⁻
		1898.34	100 *4*	23.547	1/2⁻
1926.08	1/2,3/2,5/2⁺	1103.33	100 *24*	822.71	1/2⁻,3/2⁻
		1926.10	48 *12*	0.0	3/2⁻
1931.30	(1/2⁻,3/2)	1743.40	21 *6*	187.878	5/2⁻
		1837.99	15 *6*	93.295	3/2⁻
		1907.74	19 *6*	23.547	1/2⁻

E_i(level)	J^π_i	E_γ†	I_γ†	E_f	J^π_f
1931.30	(1/2⁻,3/2)	1931.30	100 *8*	0.0	3/2⁻
1935.41	1/2,3/2,5/2⁺	1935.40	100	0.0	3/2⁻
1949.27	1/2,3/2,5/2⁺	1181.01	100 *13*	768.22	1/2⁻,3/2⁻
		1219.40	30 *10*	729.90	3/2⁻
1952.86	1/2⁽⁻⁾,3/2,5/2⁺	1125.40	100 *21*	827.41	(1/2⁻,3/2⁻)
		1222.90	62 *12*	729.90	3/2⁻
		1765.00	50 *9*	187.878	5/2⁻
		1859.59	68 *9*	93.295	3/2⁻
		1887.02	29 *9*	65.854	5/2⁻
1956.17	(1/2⁻,3/2)	1226.20	9.7 *9*	729.90	3/2⁻
		1292.60	5.5 *16*	663.49	3/2⁻
		1768.30	5.8 *7*	187.878	5/2⁻
		1862.89	5.8 *7*	93.295	3/2⁻
		1890.32	3.0 *7*	65.854	5/2⁻
		1932.64	3.5 *7*	23.547	1/2⁻
		1956.20	100 *3*	0.0	3/2⁻
1972.31	1/2,3/2,5/2⁺	1972.30	100	0.0	3/2⁻
1976.68	(1/2⁻,3/2)	1313.10	100 *13*	663.49	3/2⁻
		1883.39	84 *8*	93.295	3/2⁻
		1910.82	39 *8*	65.854	5/2⁻
		1953.14	100 *13*	23.547	1/2⁻
		1976.70	66 *11*	0.0	3/2⁻
1979.50	1/2⁽⁻⁾,3/2,5/2⁺	1913.62	63 *16*	65.854	5/2⁻
		1979.50	100 *21*	0.0	3/2⁻
1984.56	(1/2,3/2)	1157.10	100 *29*	827.41	(1/2⁻,3/2⁻)
		1961.04	42 *13*	23.547	1/2⁻
1991.38	1/2⁽⁻⁾,3/2,5/2⁺	1925.52	100	65.854	5/2⁻
1999.50	(1/2⁻,3/2)	1811.60	30 *15*	187.878	5/2⁻
		1906.19	40 *15*	93.295	3/2⁻
		1975.94	100 *20*	23.547	1/2⁻
		1999.50	55 *15*	0.0	3/2⁻
2003.49	1/2⁽⁻⁾,3/2,5/2⁺	1815.60	100	187.878	5/2⁻
2007.00	1/2⁽⁻⁾,3/2,5/2⁺	1941.12	69 *19*	65.854	5/2⁻
		2007.00	100 *19*	0.0	3/2⁻
2009.46	(1/2,3/2)	1279.50	100 *7*	729.90	3/2⁻
		1985.94	59 *7*	23.547	1/2⁻
2037.98	(1/2⁻,3/2)	1374.40	100 *29*	663.49	3/2⁻
		1850.10	41 *18*	187.878	5/2⁻
		1972.12	71 *18*	65.854	5/2⁻
		2014.44	94 *18*	23.547	1/2⁻
		2038.00	47 *18*	0.0	3/2⁻

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Adopted Levels, Gammas (continued)

$\gamma(^{185}W)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
2043.48	$1/2^{(-)},3/2,5/2^+$	1977.62	100	65.854	$5/2^-$
2062.08	$1/2^{(-)},3/2,5/2^+$	1996.22	100	65.854	$5/2^-$
2067.05	$(1/2^-,3/2)$	1149.50	11 *3*	917.55	1/2,3/2
		1298.71	25.3 *16*	768.22	$1/2^-,3/2^-$
		1337.10	8.5 *11*	729.90	$3/2^-$
		1403.50	31.6 *19*	663.49	$3/2^-$
		1879.20	10.1 *8*	187.878	$5/2^-$
		1973.79	38.6 *16*	93.295	$3/2^-$
		2043.54	100 *3*	23.547	$1/2^-$
		2067.10	73.9 *24*	0.0	$3/2^-$
2073.89	$1/2^{(-)},3/2,5/2^+$	1886.00	100 *12*	187.878	$5/2^-$
		1980.59	73 *12*	93.295	$3/2^-$
2078.57	$1/2^{(-)},3/2,5/2^+$	1255.83	100 *14*	822.71	$1/2^-,3/2^-$
		1890.70	43 *9*	187.878	$5/2^-$
		2012.72	43 *9*	65.854	$5/2^-$
2081.48	$1/2^{(-)},3/2,5/2^+$	2015.62	100	65.854	$5/2^-$
2094.88	$1/2^{(-)},3/2,5/2^+$	2029.02	100	65.854	$5/2^-$
2097.50	$1/2^{(-)},3/2,5/2^+$	2031.62	54 *23*	65.854	$5/2^-$
		2097.50	100 *23*	0.0	$3/2^-$
2108.90	$1/2,3/2,5/2^+$	2015.59	100	93.295	$3/2^-$
2117.00	(1/2,3/2)	2093.44	100	23.547	$1/2^-$
2122.68	$1/2^{(-)},3/2,5/2^+$	2056.82	100	65.854	$5/2^-$
2130.59	(1/2,3/2)	1307.83	30 *7*	822.71	$1/2^-,3/2^-$
		2037.29	60 *5*	93.295	$3/2^-$
		2107.04	21 *4*	23.547	$1/2^-$
		2130.60	100 *5*	0.0	$3/2^-$
2135.05	$1/2,3/2,5/2^+$	1312.33	100	822.71	$1/2^-,3/2^-$
2138.17	$1/2^{(-)},3/2,5/2^+$	1310.70	100 *9*	827.41	$(1/2^-,3/2^-)$
		2044.89	26 *7*	93.295	$3/2^-$
		2072.32	26 *7*	65.854	$5/2^-$
2142.51	$1/2,3/2,5/2^+$	1374.21	100 *12*	768.22	$1/2^-,3/2^-$
		2049.29	100 *15*	93.295	$3/2^-$
2150.35	$(3/2^-,5/2^+)$	1382.01	48 *14*	768.22	$1/2^-,3/2^-$
		1906.70	100 *14*	243.62	$7/2^-$
		2057.09	52 *14*	93.295	$3/2^-$
		2084.52	48 *14*	65.854	$5/2^-$
		2150.40	33 *14*	0.0	$3/2^-$
2153.80	(1/2,3/2)	2130.24	100	23.547	$1/2^-$
2157.60	(1/2,3/2)	2134.04	100	23.547	$1/2^-$
2161.00	$1/2,3/2,5/2^+$	2067.69	100	93.295	$3/2^-$
2164.40	(1/2,3/2)	2071.09	70 *11*	93.295	$3/2^-$
2164.40	(1/2,3/2)	2140.84	100 *15*	23.547	$1/2^-$
		2164.40	59 *11*	0.0	$3/2^-$
2178.39	$(1/2^-,3/2)$	1355.63	12 *4*	822.71	$1/2^-,3/2^-$
		1990.50	7 *3*	187.878	$5/2^-$
		2085.09	47 *5*	93.295	$3/2^-$
		2112.52	17 *3*	65.854	$5/2^-$
		2154.84	100 *6*	23.547	$1/2^-$
		2178.40	7 *4*	0.0	$3/2^-$
2186.49	$1/2^{(-)},3/2,5/2^+$	2093.19	100 *18*	93.295	$3/2^-$
		2120.62	41 *14*	65.854	$5/2^-$
2191.17	$1/2,3/2,5/2^+$	1527.60	39 *8*	663.49	$3/2^-$
		2097.89	100 *11*	93.295	$3/2^-$
		2191.20	18 *8*	0.0	$3/2^-$
2195.00	$1/2,3/2,5/2^+$	2101.69	100	93.295	$3/2^-$
2206.29	$1/2^{(-)},3/2,5/2^+$	2140.42	100	65.854	$5/2^-$
2210.67	(1/2,3/2)	1383.20	38 *9*	827.41	$(1/2^-,3/2^-)$
		2117.39	41 *9*	93.295	$3/2^-$
		2187.14	100 *13*	23.547	$1/2^-$
2216.91	$(3/2^-,5/2^+)$	2043.20	5.7 *19*	173.702	$7/2^-$
		2123.59	100 *9*	93.295	$3/2^-$
		2216.90	28 *6*	0.0	$3/2^-$
2226.00	$(1/2^-,3/2)$	2038.10	23 *3*	187.878	$5/2^-$
		2132.69	12.2 *22*	93.295	$3/2^-$
		2160.12	5.6 *17*	65.854	$5/2^-$
		2202.44	100 *4*	23.547	$1/2^-$
		2226.00	12.2 *17*	0.0	$3/2^-$
2233.21	$1/2,3/2,5/2^+$	2233.20	100	0.0	$3/2^-$
2236.80	$1/2^{(-)},3/2,5/2^+$	2143.49	100 *20*	93.295	$3/2^-$
		2170.92	75 *15*	65.854	$5/2^-$
		2236.80	60 *15*	0.0	$3/2^-$
2240.90	$(3/2^-)$	2067.20	7 *3*	173.702	$7/2^-$
		2175.02	27 *10*	65.854	$5/2^-$
		2217.34	100 *13*	23.547	$1/2^-$
2249.00	$1/2^{(-)},3/2,5/2^+$	2183.12	100 *19*	65.854	$5/2^-$
		2249.00	75 *19*	0.0	$3/2^-$
2252.80	(1/2,3/2)	2229.24	100	23.547	$1/2^-$
2254.78	$(3/2^-)$	1591.20	12 *3*	663.49	$3/2^-$
		2066.90	59 *4*	187.878	$5/2^-$
		2081.10	1.7 *8*	173.702	$7/2^-$
		2161.49	65 *4*	93.295	$3/2^-$
		2188.92	10.7 *25*	65.854	$5/2^-$

$^{185}_{74}W_{111}$-13

Adopted Levels, Gammas (continued)

$\gamma(^{185}W)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
2254.78	(3/2$^-$)	2231.24	100 *7*	23.547	1/2$^-$
2268.07	(1/2,3/2)	1350.50	46 *7*	917.55	1/2,3/2
		1445.33	43.6 *7*	822.71	1/2$^-$,3/2$^-$
		1604.50	16 *3*	663.49	3/2$^-$
		2174.79	100 *6*	93.295	3/2$^-$
		2244.54	49 *4*	23.547	1/2$^-$
		2268.10	5.7 *21*	0.0	3/2$^-$
2275.17	1/2$^{(-)}$,3/2,5/2$^+$	1447.70	63 *21*	827.41	(1/2$^-$,3/2$^-$)
		2209.32	58 *16*	65.854	5/2$^-$
		2275.20	100 *21*	0.0	3/2$^-$
2277.21	1/2,3/2,5/2$^+$	2183.89	100 *17*	93.295	3/2$^-$
		2277.20	52 *17*	0.0	3/2$^-$
2284.37	(1/2$^-$,3/2)	1461.63	76 *5*	822.71	1/2$^-$,3/2$^-$
		1620.80	62 *19*	663.49	3/2$^-$
		2096.50	43 *14*	187.878	5/2$^-$
		2191.09	90 *14*	93.295	3/2$^-$
		2260.84	100 *19*	23.547	1/2$^-$
2288.39	1/2$^{(-)}$,3/2,5/2$^+$	2100.50	70 *30*	187.878	5/2$^-$
		2222.52	100 *30*	65.854	5/2$^-$
2292.50	(1/2,3/2)	2199.19	100 *13*	93.295	3/2$^-$
		2268.94	87 *13*	23.547	1/2$^-$
2294.90	1/2$^{(-)}$,3/2,5/2$^+$	2107.00	31 *10*	187.878	5/2$^-$
		2201.59	100 *14*	93.295	3/2$^-$
		2294.90	59 *10*	0.0	3/2$^-$
2312.10	(1/2$^-$,3/2)	2124.20	57 *14*	187.878	5/2$^-$
		2218.79	100 *14*	93.295	3/2$^-$
		2288.54	71 *14*	23.547	1/2$^-$
2315.07	1/2$^{(-)}$,3/2,5/2$^+$	1651.50	31 *8*	663.49	3/2$^-$
		2127.20	78 *8*	187.878	5/2$^-$
		2249.22	14 *6*	65.854	5/2$^-$
		2315.10	100 *8*	0.0	3/2$^-$
2327.32	1/2,3/2,5/2$^+$	2327.30	100	0.0	3/2$^-$
2334.81	1/2,3/2,5/2$^+$	2241.49	100 *19*	93.295	3/2$^-$
		2334.80	75 *19*	0.0	3/2$^-$
2339.17	(3/2$^-$)	1609.20	47 *13*	729.90	3/2$^-$
		1675.60	44 *13*	663.49	3/2$^-$
		2095.50	50 *9*	243.62	7/2$^-$
		2151.30	41 *9*	187.878	5/2$^-$
		2245.89	56 *9*	93.295	3/2$^-$
		2273.32	47 *9*	65.854	5/2$^-$
		2315.64	100 *13*	23.547	1/2$^-$
2339.17	(3/2$^-$)	2339.20	25 *9*	0.0	3/2$^-$
2350.00	(1/2,3/2)	2326.44	100	23.547	1/2$^-$
2353.14	1/2,3/2,5/2$^+$	1584.91	100	768.22	1/2$^-$,3/2$^-$
2363.29	1/2$^{(-)}$,3/2,5/2$^+$	2297.42	100	65.854	5/2$^-$
2367.65	(1/2$^-$,3/2)	1540.20	50 *7*	827.41	(1/2$^-$,3/2$^-$)
		1599.31	48 *5*	768.22	1/2$^-$,3/2$^-$
		1637.70	39 *7*	729.90	3/2$^-$
		2179.80	100 *7*	187.878	5/2$^-$
		2274.39	71 *7*	93.295	3/2$^-$
		2344.14	32 *7*	23.547	1/2$^-$
		2367.70	27 *9*	0.0	3/2$^-$
2370.60	1/2$^{(-)}$,3/2,5/2$^+$	2182.70	68 *14*	187.878	5/2$^-$
		2370.60	100 *23*	0.0	3/2$^-$
2375.85	(3/2$^-$,5/2$^+$)	1553.13	27 *6*	822.71	1/2$^-$,3/2$^-$
		1712.30	32 *6*	663.49	3/2$^-$
		2132.20	11 *5*	243.62	7/2$^-$
		2188.00	27 *5*	187.878	5/2$^-$
		2282.59	100 *6*	93.295	3/2$^-$
2379.66	1/2$^{(-)}$,3/2,5/2$^+$	1462.10	22 *6*	917.55	1/2,3/2
		1552.20	24.3 *24*	827.41	(1/2$^-$,3/2$^-$)
		1556.93	16 *3*	822.71	1/2$^-$,3/2$^-$
		1649.70	23.1 *24*	729.90	3/2$^-$
		2191.80	8.3 *18*	187.878	5/2$^-$
		2286.39	100 *4*	93.295	3/2$^-$
		2379.70	27.2 *24*	0.0	3/2$^-$
2384.28	(1/2,3/2)	1466.70	100 *5*	917.55	1/2,3/2
		1556.80	8.8 *21*	827.41	(1/2$^-$,3/2$^-$)
		2290.99	18.1 *21*	93.295	3/2$^-$
		2360.74	15.0 *21*	23.547	1/2$^-$
		2384.30	6.2 *16*	0.0	3/2$^-$
2391.00	1/2$^{(-)}$,3/2,5/2$^+$	2203.10	64 *21*	187.878	5/2$^-$
		2297.69	57 *21*	93.295	3/2$^-$
		2325.12	100 *21*	65.854	5/2$^-$
2401.10	(1/2$^-$,3/2)	2307.79	48 *8*	93.295	3/2$^-$
		2335.22	100 *10*	65.854	5/2$^-$
		2377.54	23 *8*	23.547	1/2$^-$
		2401.10	25 *8*	0.0	3/2$^-$
2407.37	(3/2$^-$)	1489.80	45 *10*	917.55	1/2,3/2
		1584.63	40 *6*	822.71	1/2$^-$,3/2$^-$
		1677.40	31 *5*	729.90	3/2$^-$
		1743.80	15 *5*	663.49	3/2$^-$

$^{185}_{74}W_{111}$-14

Adopted Levels, Gammas (continued)

$\gamma(^{185}W)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
2407.37	(3/2⁻)	2219.50	12 *3*	187.878	5/2⁻
		2233.70	2.3 *12*	173.702	7/2⁻
		2314.09	19 *3*	93.295	3/2⁻
		2341.52	28 *5*	65.854	5/2⁻
		2383.84	100 *7*	23.547	1/2⁻
		2407.40	26 *3*	0.0	3/2⁻
2415.15	1/2,3/2,5/2⁺	1587.70	74 *15*	827.41	(1/2⁻,3/2⁻)
		1592.43	48 *15*	822.71	1/2⁻,3/2⁻
		1685.20	48 *15*	729.90	3/2⁻
		2415.20	100 *15*	0.0	3/2⁻
2418.08	(3/2⁻,5/2⁺)	2174.40	64 *27*	243.62	7/2⁻
		2418.10	100 *27*	0.0	3/2⁻
2422.42	1/2,3/2,5/2⁺	2422.40	100	0.0	3/2⁻
2425.00	(1/2⁻,3/2)	2331.69	40 *6*	93.295	3/2⁻
		2359.12	79 *8*	65.854	5/2⁻
		2401.44	100 *10*	23.547	1/2⁻
2434.32	1/2,3/2,5/2⁺	2434.30	100	0.0	3/2⁻
2439.90	(1/2,3/2)	2416.34	100	23.547	1/2⁻
2442.20	(1/2⁻,3/2)	2348.89	71 *29*	93.295	3/2⁻
		2376.32	100 *21*	65.854	5/2⁻
		2418.64	79 *29*	23.547	1/2⁻
		2442.20	50 *21*	0.0	3/2⁻
2450.61	(1/2,3/2)	2357.29	72 *17*	93.295	3/2⁻
		2427.04	100 *17*	23.547	1/2⁻
2453.21	1(1/2,3/2)	2359.89	100 *15*	93.295	3/2⁻
		2429.64	75 *15*	23.547	1/2⁻
		2453.20	55 *15*	0.0	3/2⁻
2459.32	1/2,3/2,5/2⁺	2459.30	100	0.0	3/2⁻
2460.78	(1/2,3/2)	1638.03	100 *16*	822.71	1/2⁻,3/2⁻
		1730.80	48 *13*	729.90	3/2⁻
		2367.49	45 *10*	93.295	3/2⁻
		2437.24	32 *10*	23.547	1/2⁻
		2460.80	61 *16*	0.0	3/2⁻
2466.30	(1/2,3/2)	2442.74	100	23.547	1/2⁻
2470.56	1/2⁽⁻⁾,3/2,5/2⁺	1702.21	100 *23*	768.22	1/2⁻,3/2⁻
		2282.70	62 *15*	187.878	5/2⁻
		2377.29	100 *23*	93.295	3/2⁻
		2470.60	62 *31*	0.0	3/2⁻
2475.11	(1/2⁻,3/2)	2409.22	56 *19*	65.854	5/2⁻
		2451.54	100 *19*	23.547	1/2⁻
		2475.10	81 *25*	0.0	3/2⁻
2479.68	(1/2⁻,3/2)	1816.10	43 *8*	663.49	3/2⁻
2479.68	(1/2⁻,3/2)	2386.39	41 *6*	93.295	3/2⁻
		2413.82	27 *6*	65.854	5/2⁻
		2456.14	100 *10*	23.547	1/2⁻
		2479.70	16 *6*	0.0	3/2⁻
2483.42	1/2,3/2,5/2⁺	2483.40	100	0.0	3/2⁻
2485.29	(1/2⁻,3/2)	1755.30	38 *9*	729.90	3/2⁻
		2297.40	100 *9*	187.878	5/2⁻
		2391.99	56 *9*	93.295	3/2⁻
		2419.42	38 *9*	65.854	5/2⁻
		2461.74	78 *13*	23.547	1/2⁻
		2485.30	59 *16*	0.0	3/2⁻
2499.80	1/2⁽⁻⁾,3/2,5/2⁺	2406.49	100 *30*	93.295	3/2⁻
		2433.92	100 *30*	65.854	5/2⁻
		2499.80	100 *30*	0.0	3/2⁻
2502.90	(1/2⁻,3/2)	2315.00	37 *11*	187.878	5/2⁻
		2479.34	100 *16*	23.547	1/2⁻
2508.80	1/2,3/2,5/2⁺	2415.49	100	93.295	3/2⁻
2513.40	(1/2⁻,3/2)	2325.50	80 *20*	187.878	5/2⁻
		2489.84	100 *20*	23.547	1/2⁻
2517.28	(3/2⁻)	2273.60	89 *16*	243.62	7/2⁻
		2329.40	100 *16*	187.878	5/2⁻
		2451.42	58 *16*	65.854	5/2⁻
		2493.74	68 *16*	23.547	1/2⁻
2520.58	(1/2⁻,3/2)	1697.83	45 *12*	822.71	1/2⁻,3/2⁻
		2454.72	61 *9*	65.854	5/2⁻
		2497.04	100 *12*	23.547	1/2⁻
2528.18	1/2,3/2,5/2⁺	1705.43	48 *16*	822.71	1/2⁻,3/2⁻
		2434.89	100 *16*	93.295	3/2⁻
2548.11	(1/2,3/2)	2524.54	100 *38*	23.547	1/2⁻
		2548.10	100 *38*	0.0	3/2⁻
2551.92	1/2,3/2,5/2⁺	2551.90	100	0.0	3/2⁻
2554.99	1/2⁽⁻⁾,3/2,5/2⁺	2489.12	100	65.854	5/2⁻
2559.96	(1/2⁻,3/2)	1791.61	26 *8*	768.22	1/2⁻,3/2⁻
		2372.10	100 *8*	187.878	5/2⁻
		2466.69	29 *8*	93.295	3/2⁻
		2494.12	39 *8*	65.854	5/2⁻
		2536.44	37 *8*	23.547	1/2⁻
2567.70	1/2,3/2,5/2⁺	2474.39	100	93.295	3/2⁻
2574.67	(1/2⁻,3/2)	1844.70	20 *5*	729.90	3/2⁻
		1911.10	21 *5*	663.49	3/2⁻
		2386.80	20 *3*	187.878	5/2⁻
		2508.82	24 *4*	65.854	5/2⁻

$^{185}_{74}W_{111}$-15

Adopted Levels, Gammas (continued)

$\gamma(^{185}\mathrm{W})$ (continued)

E_i(level)	J^π_i	E_γ†	I_γ†	E_f	J^π_f
2574.67	$(1/2^-,3/2)$	2551.14	100 8	23.547	$1/2^-$
		2574.70	11 4	0.0	$3/2^-$
2577.54	$1/2,3/2,5/2^+$	1809.31	100	768.22	$1/2^-,3/2^-$
2582.41	$(1/2,3/2)$	2489.09	100 7	93.295	$3/2^-$
		2558.84	25 5	23.547	$1/2^-$
		2582.40	11 4	0.0	$3/2^-$
2590.11	$(1/2^-,3/2)$	2524.22	63 11	65.854	$5/2^-$
		2566.54	100 15	23.547	$1/2^-$
		2590.10	85 11	0.0	$3/2^-$
2600.72	$1/2,3/2,5/2^+$	2600.70	100	0.0	$3/2^-$
2604.57	$(1/2^-,3/2)$	1836.21	18 3	768.22	$1/2^-,3/2^-$
		2416.70	23 3	187.878	$5/2^-$
		2511.29	28 4	93.295	$3/2^-$
		2538.72	11 3	65.854	$5/2^-$
		2581.04	24 4	23.547	$1/2^-$
		2604.60	100 6	0.0	$3/2^-$
2609.79	$(1/2^-,3/2)$	1946.20	61 17	663.49	$3/2^-$
		2421.90	26 9	187.878	$5/2^-$
		2516.49	70 22	93.295	$3/2^-$
		2543.92	100 13	65.854	$5/2^-$
		2586.24	100 17	23.547	$1/2^-$
		2609.80	100 17	0.0	$3/2^-$
2612.81	$(1/2,3/2)$	2519.49	52 19	93.295	$3/2^-$
		2589.24	100 15	23.547	$1/2^-$
2615.79	$1/2^{(-)},3/2,5/2^+$	2549.92	100	65.854	$5/2^-$
2619.99	$1/2^{(-)},3/2,5/2^+$	2554.12	100	65.854	$5/2^-$
2623.51	$(1/2,3/2)$	2530.19	100 21	93.295	$3/2^-$
		2599.94	86 29	23.547	$1/2^-$
2626.12	$1/2,3/2,5/2^+$	2626.10	100	0.0	$3/2^-$
2628.80	$(1/2^-,3/2)$	2562.92	100 30	65.854	$5/2^-$
		2605.24	90 40	23.547	$1/2^-$
2632.19	$(1/2^-,3/2)$	1902.20	89 22	729.90	$3/2^-$
		2444.30	78 17	187.878	$5/2^-$
		2538.89	100 22	93.295	$3/2^-$
		2566.32	72 17	65.854	$5/2^-$
		2608.64	56 22	23.547	$1/2^-$
		2632.20	83 17	0.0	$3/2^-$
2638.81	$(1/2,3/2)$	2615.24	100	23.547	$1/2^-$
2641.62	$1/2,3/2,5/2^+$	2641.60	100	0.0	$3/2^-$
2645.36	$1/2^{(-)},3/2,5/2^+$	1877.01	27 6	768.22	$1/2^-,3/2^-$
		1915.40	25 8	729.90	$3/2^-$
2645.36	$1/2^{(-)},3/2,5/2^+$	2457.50	17 6	187.878	$5/2^-$
		2552.09	100 10	93.295	$3/2^-$
		2579.52	42 6	65.854	$5/2^-$
		2645.40	40 6	0.0	$3/2^-$
2649.71	$(1/2,3/2)$	2626.14	100	23.547	$1/2^-$
2651.70	$1/2^{(-)},3/2,5/2^+$	2463.80	27 8	187.878	$5/2^-$
		2558.39	100 14	93.295	$3/2^-$
		2585.82	19 8	65.854	$5/2^-$
2653.21	$(1/2,3/2)$	2629.64	100	23.547	$1/2^-$
2654.32	$1/2,3/2,5/2^+$	2654.30	100	0.0	$3/2^-$
2654.67	$1/2^{(-)},3/2,5/2^+$	1991.10	100 9	663.49	$3/2^-$
		2466.80	33 7	187.878	$5/2^-$
		2561.39	71 11	93.295	$3/2^-$
		2588.82	31 7	65.854	$5/2^-$
2657.72	$1/2,3/2,5/2^+$	2657.70	100	0.0	$3/2^-$
2663.19	$(1/2^-,3/2)$	1933.20	100 25	729.90	$3/2^-$
		2475.30	44 19	187.878	$5/2^-$
		2569.89	63 19	93.295	$3/2^-$
		2597.32	56 19	65.854	$5/2^-$
		2639.64	75 19	23.547	$1/2^-$
		2663.20	94 19	0.0	$3/2^-$
2667.51	$(1/2,3/2)$	2574.19	38 14	93.295	$3/2^-$
		2643.94	52 14	23.547	$1/2^-$
		2667.50	100 19	0.0	$3/2^-$
2670.81	$(1/2^-,3/2)$	2604.92	50 10	65.854	$5/2^-$
		2647.24	37 10	23.547	$1/2^-$
		2670.80	100 13	0.0	$3/2^-$
2675.11	$(1/2,3/2)$	2581.79	75 13	93.295	$3/2^-$
		2651.54	100 13	23.547	$1/2^-$
2679.61	$(1/2,3/2)$	2656.04	100	23.547	$1/2^-$
2682.41	$(1/2,3/2)$	2589.09	77 18	93.295	$3/2^-$
		2658.84	100 18	23.547	$1/2^-$
		2682.40	59 14	0.0	$3/2^-$
2685.34	$1/2,3/2,5/2^+$	1767.80	100 20	917.55	1/2,3/2
		1862.63	42 8	822.71	$1/2^-,3/2^-$
		1955.40	24 8	729.90	$3/2^-$
2695.27	$1/2^{(-)},3/2,5/2^+$	1965.30	37 10	729.90	$3/2^-$
		2601.99	100 10	93.295	$3/2^-$
		2629.42	22 7	65.854	$5/2^-$
2697.41	$(3/2^-,5/2^+)$	2523.70	13 4	173.702	$7/2^-$
		2631.52	100 13	65.854	$5/2^-$

$^{185}_{74}\mathrm{W}_{111}$-16

Adopted Levels, Gammas (continued)

γ(^{185}W) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
2703.20	1/2,3/2,5/2$^+$	2609.89	100	93.295	3/2$^-$
2706.67	(1/2$^-$,3/2)	2043.10	71 *19*	663.49	3/2$^-$
		2518.80	100 *14*	187.878	5/2$^-$
		2683.14	43 *14*	23.547	1/2$^-$
2709.91	(1/2$^-$,3/2)	2522.00	47 *16*	187.878	5/2$^-$
		2686.34	100 *21*	23.547	1/2$^-$
		2709.90	95 *21*	0.0	3/2$^-$
2712.79	(3/2$^-$)	2469.10	12 *3*	243.62	7/2$^-$
		2524.90	19 *3*	187.878	5/2$^-$
		2619.49	15 *3*	93.295	3/2$^-$
		2646.92	27 *3*	65.854	5/2$^-$
		2689.24	100 *6*	23.547	1/2$^-$
		2712.80	30 *5*	0.0	3/2$^-$
2716.75	1/2,3/2,5/2,5/2$^+$	1894.03	100	822.71	1/2$^-$,3/2$^-$
2718.20	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2624.89	100 *17*	93.295	3/2$^-$
		2652.32	38 *13*	65.854	5/2$^-$
2722.60	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2534.70	24 *10*	187.878	5/2$^-$
		2629.29	100 *14*	93.295	3/2$^-$
		2656.72	41 *10*	65.854	5/2$^-$
2725.60	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2537.70	100	187.878	5/2$^-$
2727.81	(1/2,3/2)	2634.49	50 *19*	93.295	3/2$^-$
		2704.24	100 *19*	23.547	1/2$^-$
		2727.80	94 *25*	0.0	3/2$^-$
2730.62	1/2,3/2,5/2,5/2$^+$	2730.60	100	0.0	3/2$^-$
2737.41	(1/2$^-$,3/2)	2644.09	66 *9*	93.295	3/2$^-$
		2671.52	39 *7*	65.854	5/2$^-$
		2713.84	41 *11*	23.547	1/2$^-$
		2737.40	100 *11*	0.0	3/2$^-$
2740.40	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2552.50	100	187.878	5/2$^-$
2751.81	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2563.90	25 *5*	187.878	5/2$^-$
		2658.49	100 *9*	93.295	3/2$^-$
		2751.80	27 *7*	0.0	3/2$^-$
2756.21	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2690.32	100 *18*	65.854	5/2$^-$
		2756.20	71 *24*	0.0	3/2$^-$
2760.42	(1/2,3/2)	2736.84	41 *12*	23.547	1/2$^-$
		2760.40	100 *15*	0.0	3/2$^-$
2765.09	(3/2$^-$)	2035.10	86 *29*	729.90	3/2$^-$
		2591.40	14 *7*	173.702	7/2$^-$
		2671.79	100 *21*	93.295	3/2$^-$
		2741.54	79 *29*	23.547	1/2$^-$
		2765.10	86 *21*	0.0	3/2$^-$
2770.30	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2582.40	73 *27*	187.878	5/2$^-$
		2676.99	100 *27*	93.295	3/2$^-$
2772.07	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2042.10	100 *36*	729.90	3/2$^-$
		2584.20	91 *27*	187.878	5/2$^-$
		2706.22	82 *27*	65.854	5/2$^-$
2778.00	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2590.10	100	187.878	5/2$^-$
2782.59	1/2,3/2,5/2,5/2$^+$	1865.00	100 *21*	917.55	1/2,3/2
		2689.29	14 *5*	93.295	3/2$^-$
2785.00	(1/2,3/2)	1867.40	98 *16*	917.55	1/2,3/2
		2691.69	10 *5*	93.295	3/2$^-$
		2761.44	14 *5*	23.547	1/2$^-$
		2785.00	100 *10*	0.0	3/2$^-$
2787.82	1/2,3/2,5/2,5/2$^+$	2787.80	100	0.0	3/2$^-$
2790.20	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2602.30	100	187.878	5/2$^-$
2794.38	(3/2$^-$)	2550.70	32 *8*	243.62	7/2$^-$
		2606.50	18 *8*	187.878	5/2$^-$
		2770.84	100 *13*	23.547	1/2$^-$
2796.56	1/2,3/2,5/2,5/2$^+$	2028.21	14 *4*	768.22	1/2$^-$,3/2$^-$
		2703.29	100 *7*	93.295	3/2$^-$
		2796.60	21 *5*	0.0	3/2$^-$
2799.01	(1/2,3/2)	2775.44	100	23.547	1/2$^-$
2804.07	(1/2$^-$,3/2)	2035.71	29 *9*	768.22	1/2$^-$,3/2$^-$
		2616.20	32 *9*	187.878	5/2$^-$
		2710.79	100 *12*	93.295	3/2$^-$
		2738.22	59 *12*	65.854	5/2$^-$
		2780.54	62 *12*	23.547	1/2$^-$
2812.41	(1/2$^-$,3/2)	2624.50	50 *17*	187.878	5/2$^-$
		2788.84	100 *22*	23.547	1/2$^-$
2815.21	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2627.30	100 *18*	187.878	5/2$^-$
		2815.20	100 *24*	0.0	3/2$^-$
2821.41	(1/2,3/2)	2797.84	100	23.547	1/2$^-$
2835.98	(1/2$^-$,3/2)	2172.40	72 *22*	663.49	3/2$^-$
		2742.69	94 *17*	93.295	3/2$^-$
		2770.12	44 *17*	65.854	5/2$^-$
		2812.44	100 *22*	23.547	1/2$^-$
2838.03	1/2,3/2,5/2,5/2$^+$	2069.71	100 *38*	768.22	1/2$^-$,3/2$^-$
		2838.10	100 *38*	0.0	3/2$^-$
2839.80	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2651.90	100	187.878	5/2$^-$
2856.81	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2790.92	36 *16*	65.854	5/2$^-$
		2856.80	100 *16*	0.0	3/2$^-$
2866.61	1/2$^{(-)}$,3/2,5/2,5/2$^+$	2678.70	100 *38*	187.878	5/2$^-$

$^{185}_{74}W_{111}$-17

Adopted Levels, Gammas (continued)

γ(^{185}W) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
2866.61	$1/2^{(-)},3/2,5/2^+$	2866.60	100 *38*	0.0	$3/2^-$
2868.85	$1/2^{(-)},3/2,5/2^+$	2100.51	42 *16*	768.22	$1/2^-,3/2^-$
		2205.30	79 *21*	663.49	$3/2^-$
		2681.00	100 *16*	187.878	$5/2^-$
		2775.59	63 *21*	93.295	$3/2^-$
		2803.02	79 *16*	65.854	$5/2^-$
2872.11	$(1/2^-,3/2)$	2806.22	42 *16*	65.854	$5/2^-$
		2848.54	100 *21*	23.547	$1/2^-$
		2872.10	63 *16*	0.0	$3/2^-$
2874.80	$1/2^{(-)},3/2,5/2^+$	2686.90	100	187.878	$5/2^-$
2881.19	$(1/2^-,3/2)$	1963.60	100 *24*	917.55	1/2,3/2
		2058.43	65 *12*	822.71	$1/2^-,3/2^-$
		2693.30	35 *6*	187.878	$5/2^-$
		2787.89	29 *10*	93.295	$3/2^-$
		2857.64	73 *10*	23.547	$1/2^-$
2882.00	$1/2^{(-)},3/2,5/2^+$	2788.69	100 *45*	93.295	$3/2^-$
		2816.12	100 *27*	65.854	$5/2^-$
2892.20	$1/2^{(-)},3/2,5/2^+$	2704.30	55 *14*	187.878	$5/2^-$
		2798.89	100 *18*	93.295	$3/2^-$
2902.09	(1/2,3/2)	2238.50	26 *9*	663.49	$3/2^-$
		2808.79	100 *13*	93.295	$3/2^-$
		2878.54	22 *9*	23.547	$1/2^-$
		2902.10	15 *7*	0.0	$3/2^-$
2910.10	$(1/2^-,3/2)$	2087.33	47 *12*	822.71	$1/2^-,3/2^-$
		2722.20	41 *12*	187.878	$5/2^-$
		2816.79	100 *15*	93.295	$3/2^-$
		2886.54	41 *12*	23.547	$1/2^-$
		2910.10	29 *9*	0.0	$3/2^-$
2913.21	$(1/2^-,3/2)$	2725.30	70 *20*	187.878	$5/2^-$
		2889.64	100 *20*	23.547	$1/2^-$
2914.19	$1/2^{(-)},3/2,5/2^+$	2848.32	100	65.854	$5/2^-$
2921.71	$(1/2^-,3/2)$	2855.82	100 *20*	65.854	$5/2^-$
		2898.14	93 *27*	23.547	$1/2^-$
		2921.70	100 *27*	0.0	$3/2^-$
2928.41	$(1/2^-,3/2)$	2740.50	100 *10*	187.878	$5/2^-$
		2862.52	24 *10*	65.854	$5/2^-$
		2904.84	41 *14*	23.547	$1/2^-$
2933.81	$1/2^{(-)},3/2,5/2^+$	2867.92	79 *9*	65.854	$5/2^-$
		2933.80	100 *12*	0.0	$3/2^-$
2943.81	$1/2^{(-)},3/2,5/2^+$	2755.90	45 *8*	187.878	$5/2^-$
		2850.49	79 *13*	93.295	$3/2^-$
2943.81	$1/2^{(-)},3/2,5/2^+$	2943.80	100 *13*	0.0	$3/2^-$
2944.74	$1/2,3/2,5/2^+$	2176.51	100	768.22	$1/2^-,3/2^-$
2950.05	$1/2^{(-)},3/2,5/2^+$	2286.50	26 *6*	663.49	$3/2^-$
		2762.20	100 *6*	187.878	$5/2^-$
2956.10	$1/2^{(-)},3/2,5/2^+$	2768.20	100	187.878	$5/2^-$
2964.40	$1/2^{(-)},3/2,5/2^+$	2776.50	100	187.878	$5/2^-$
2966.90	$1/2,3/2,5/2^+$	2303.40	100	663.49	$3/2^-$
2977.40	$1/2^{(-)},3/2,5/2^+$	2789.50	100	187.878	$5/2^-$
2985.51	$1/2^{(-)},3/2,5/2^+$	2797.60	90 *15*	187.878	$5/2^-$
		2892.19	100 *20*	93.295	$3/2^-$
		2985.50	65 *20*	0.0	$3/2^-$
2990.66	$(1/2^-,3/2)$	2222.31	24 *4*	768.22	$1/2^-,3/2^-$
		2327.10	24 *6*	663.49	$3/2^-$
		2802.80	100 *6*	187.878	$5/2^-$
		2897.39	50 *7*	93.295	$3/2^-$
		2967.14	50 *7*	23.547	$1/2^-$
3004.79	$(1/2^-,3/2)$	2087.20	77 *28*	917.55	1/2,3/2
		2182.03	42 *12*	822.71	$1/2^-,3/2^-$
		2938.92	100 *9*	65.854	$5/2^-$
		2981.24	23 *9*	23.547	$1/2^-$
		3004.80	16 *9*	0.0	$3/2^-$
3010.34	$1/2,3/2,5/2^+$	2092.80	100 *33*	917.55	1/2,3/2
		2280.40	36 *11*	729.90	$3/2^-$
3033.20	$1/2,3/2,5/2^+$	2369.70	100	663.49	$3/2^-$
3037.21	$(1/2^-,3/2)$	2849.30	27 *10*	187.878	$5/2^-$
		3013.64	73 *17*	23.547	$1/2^-$
		3037.20	100 *13*	0.0	$3/2^-$
3047.60	$1/2,3/2,5/2^+$	2130.00	100 *29*	917.55	1/2,3/2
		3047.60	31 *11*	0.0	$3/2^-$
3052.98	$1/2,3/2,5/2^+$	2323.00	74 *13*	729.90	$3/2^-$
		2389.40	58 *13*	663.49	$3/2^-$
		2959.69	100 *16*	93.295	$3/2^-$
		3029.44	71 *13*	23.547	$1/2^-$
		3053.00	100 *16*	0.0	$3/2^-$
3064.06	$1/2,3/2,5/2^+$	2241.33	100	822.71	$1/2^-,3/2^-$
3068.96	$1/2,3/2,5/2^+$	2151.40	100	917.55	1/2,3/2
3087.72	(1/2,3/2)	2994.39	37 *9*	93.295	$3/2^-$
		3064.14	100 *11*	23.547	$1/2^-$
3091.90	$1/2,3/2,5/2^+$	2428.40	100	663.49	$3/2^-$
3094.80	$1/2,3/2,5/2^+$	2272.13	100 *13*	822.71	$1/2^-,3/2^-$
		2326.51	19 *6*	768.22	$1/2^-,3/2^-$

$^{185}_{74}W_{111}$-18

Adopted Levels, Gammas (continued)

$\gamma(^{185}W)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π
3099.82	1/2,3/2,5/2$^+$	2369.90	100	729.90	3/2$^-$	3249.46	1/2,3/2,5/2$^+$	2426.73	100	822.71	1/2$^-$,3/2$^-$
3106.32	1/2,3/2,5/2$^+$	2376.40	100	729.90	3/2$^-$	3262.97	1/2,3/2,5/2$^+$	2345.40	100 *30*	917.55	1/2,3/2
3124.44	1/2,3/2,5/2$^+$	2356.21	100	768.22	1/2$^-$,3/2$^-$			2440.23	46 *14*	822.71	1/2$^-$,3/2$^-$
3200.36	1/2,3/2,5/2$^+$	2282.80	100	917.55	1/2,3/2	3276.86	1/2,3/2,5/2$^+$	2359.30	100	917.55	1/2,3/2
3241.56	1/2,3/2,5/2$^+$	2418.83	100	822.71	1/2$^-$,3/2$^-$						

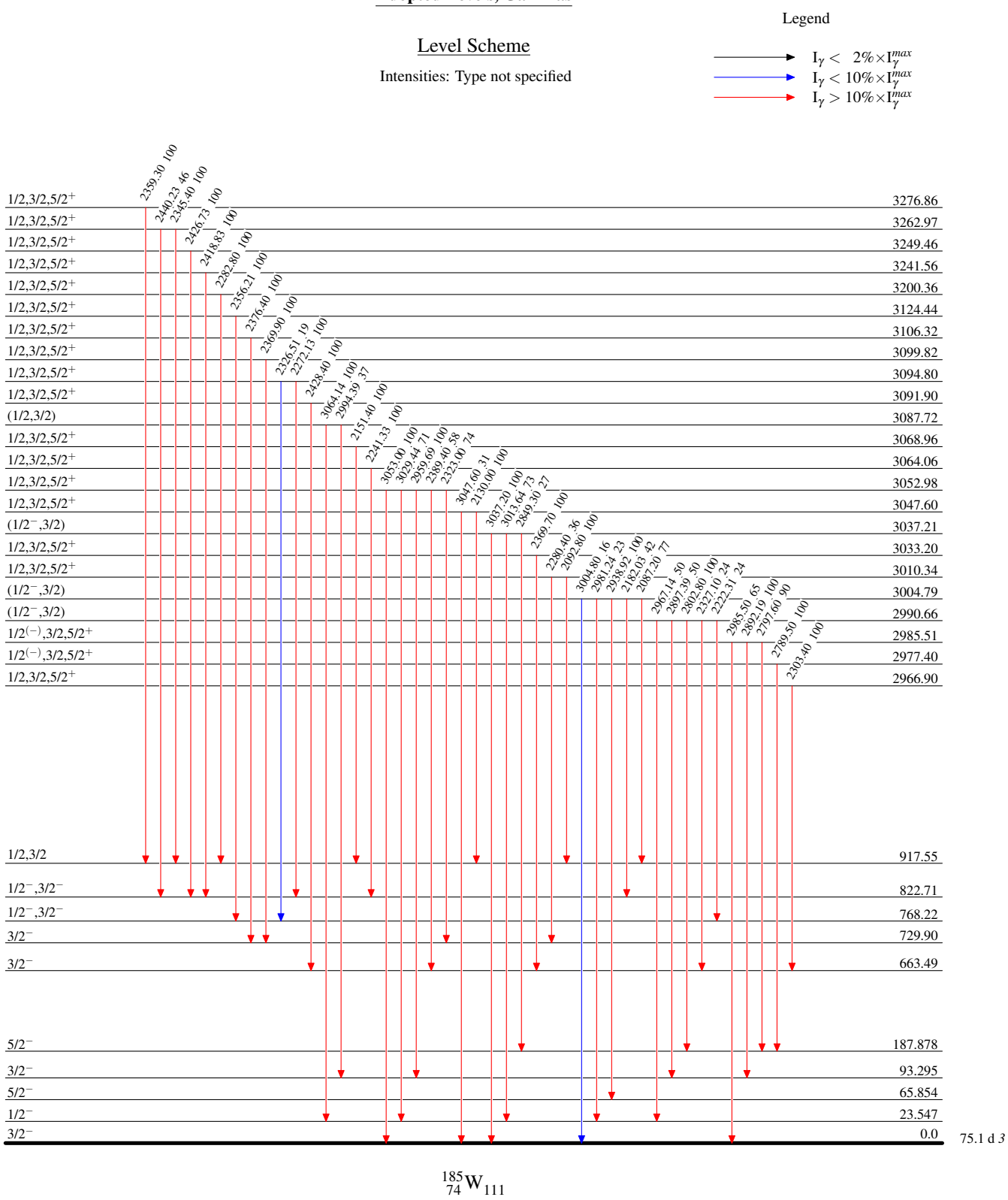
† From ^{184}W(n,γ) E=thermal: γ coin, except as noted.
‡ From ^{185}Ta β^- decay and ^{185}W IT decay (1.67 min).
# From ^{185}W IT decay (1.67 min).
@ From ^{185}Ta β^- decay.
& From ^{184}W(n,γ) E=thermal. $\Delta I\gamma$=10-15% for strong lines, and up to 100% for weak lines.
[a] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

$^{185}_{74}W_{111}$-19

Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified

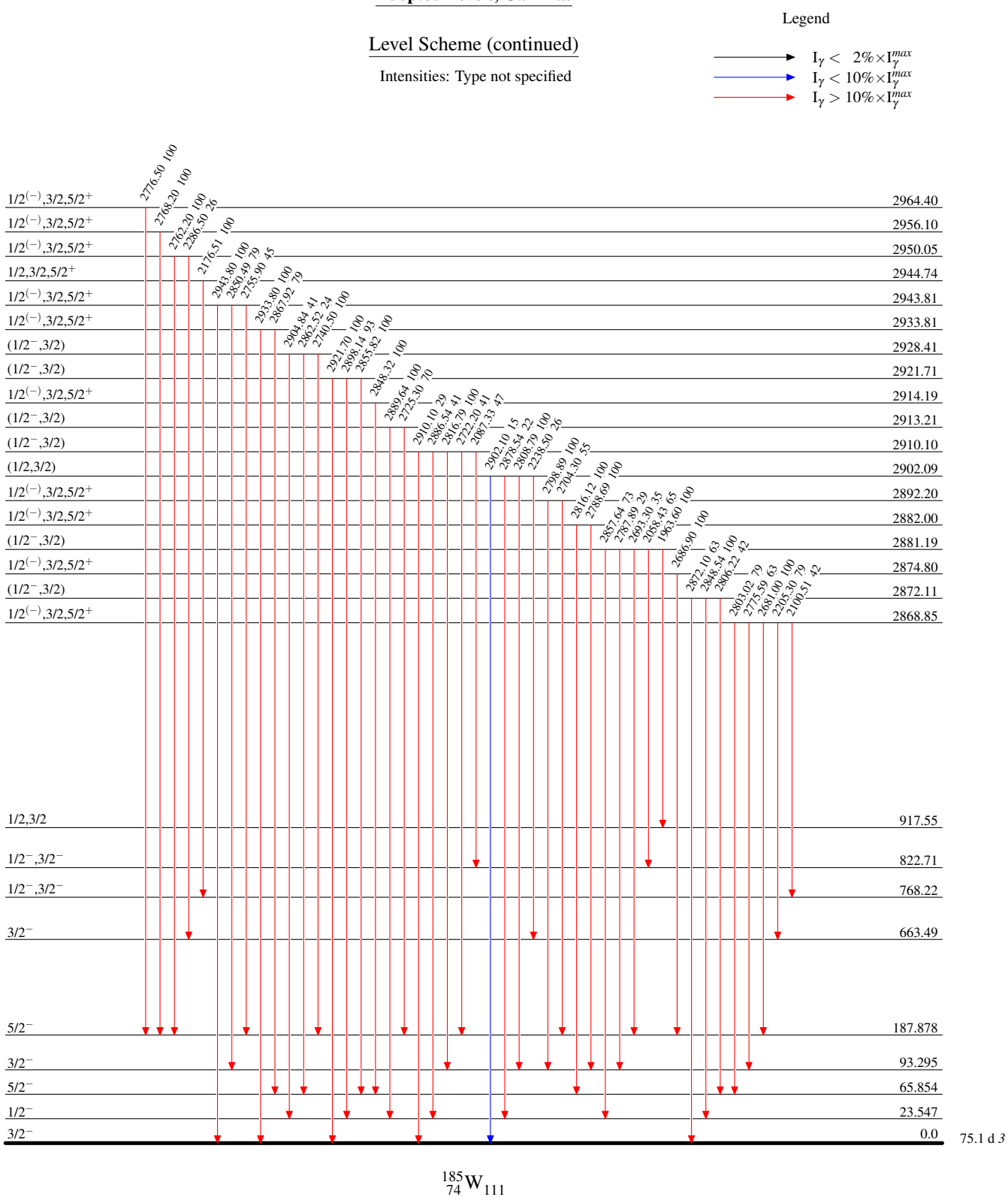


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

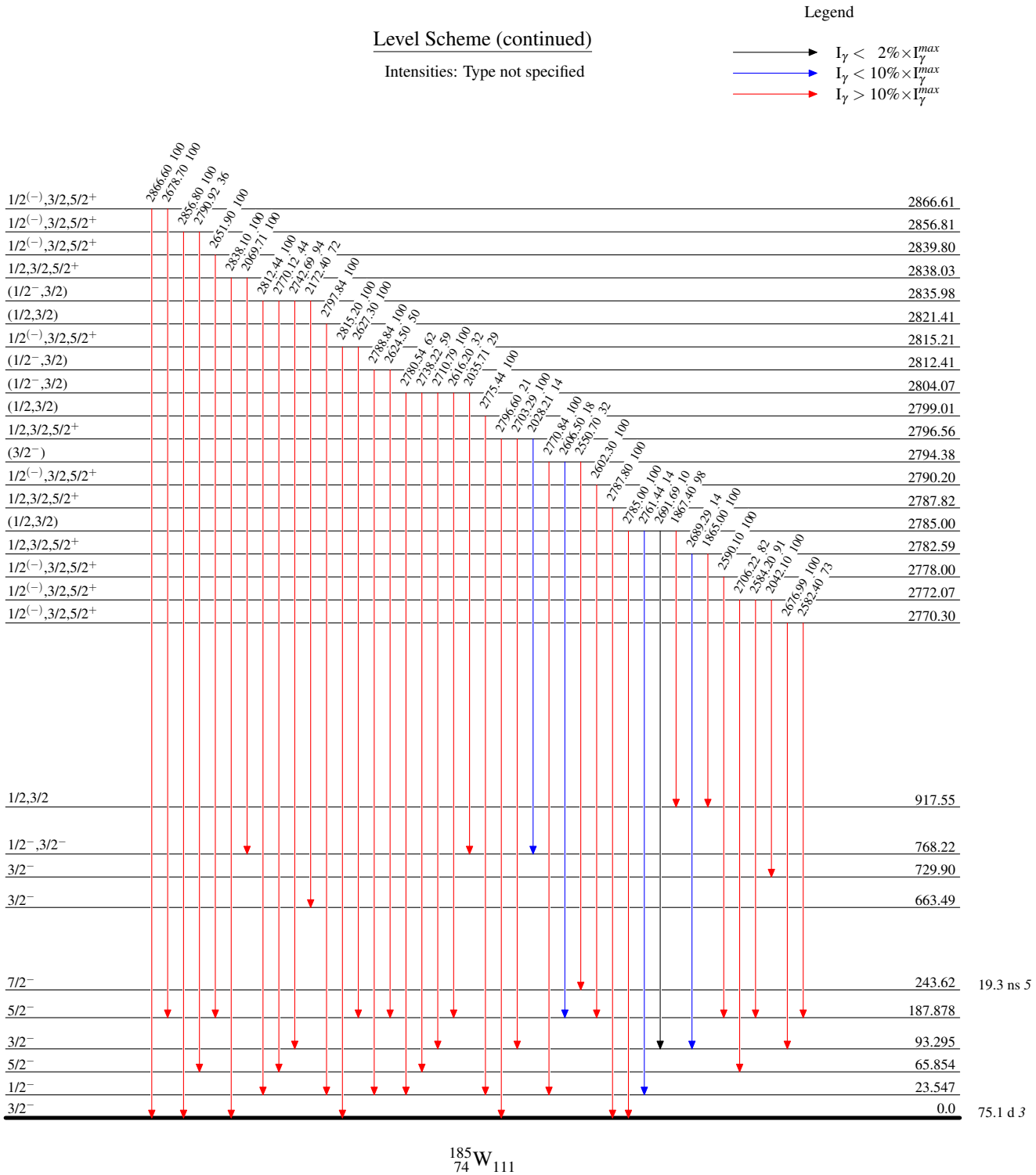


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

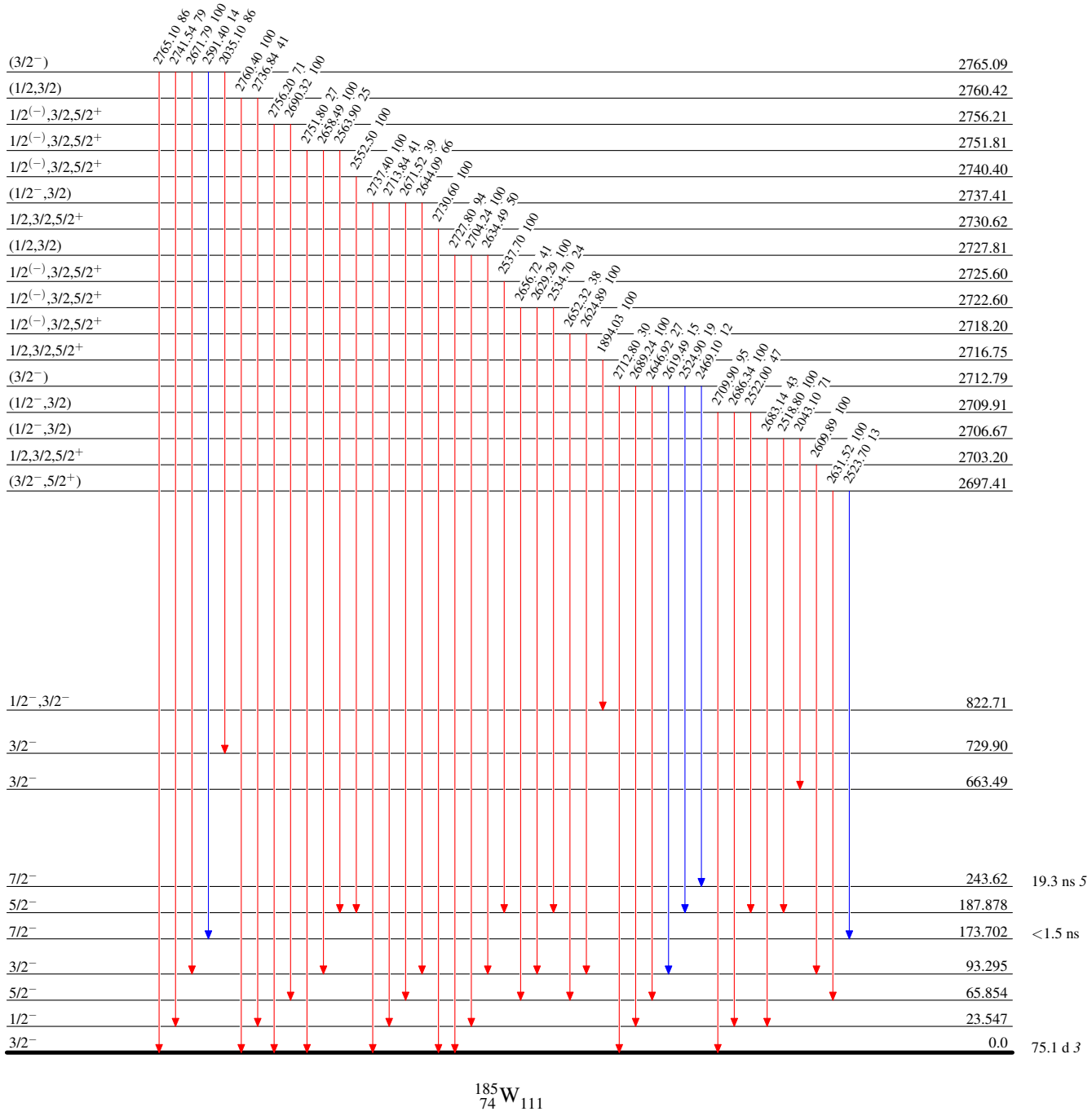


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

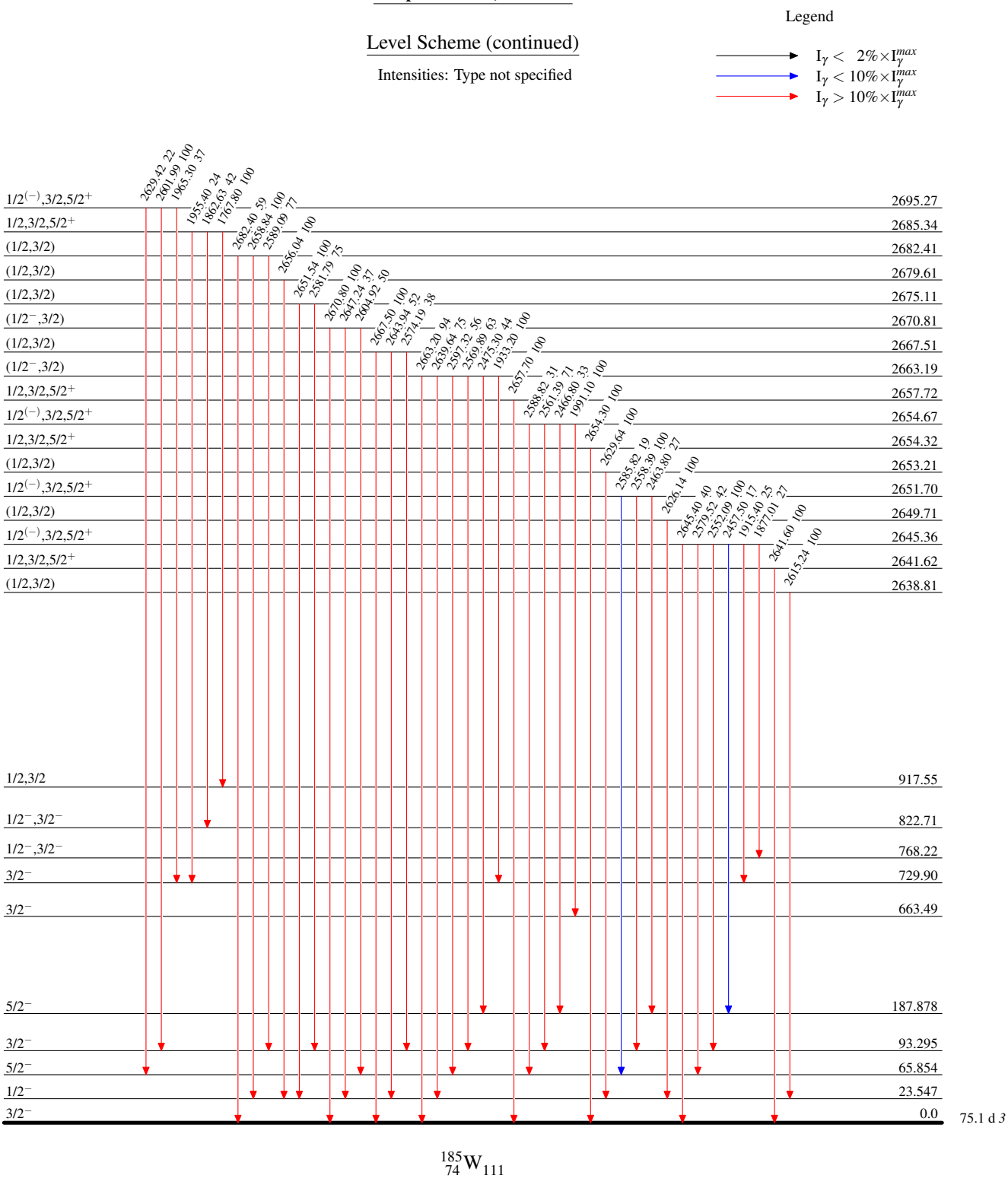


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

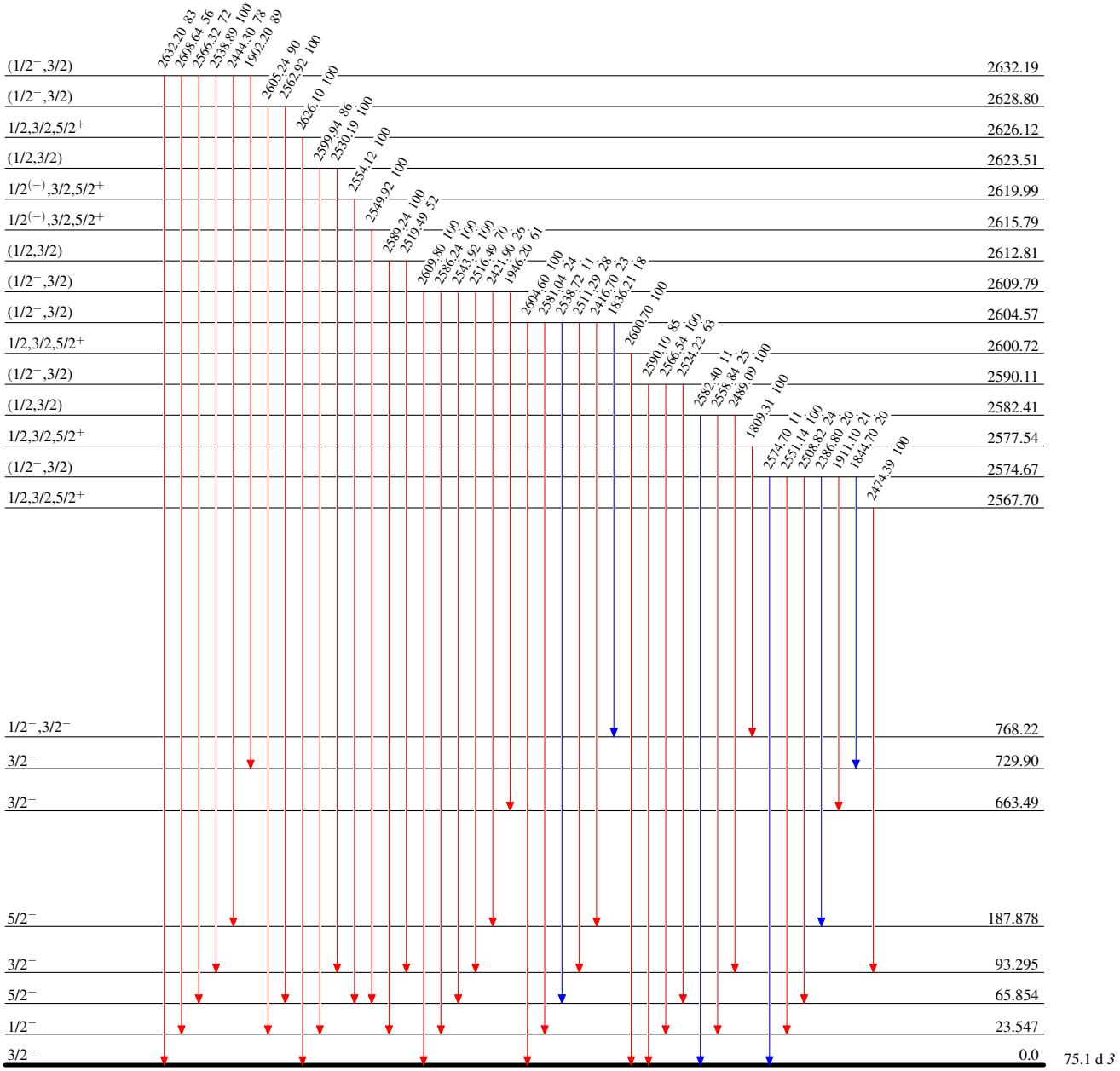
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

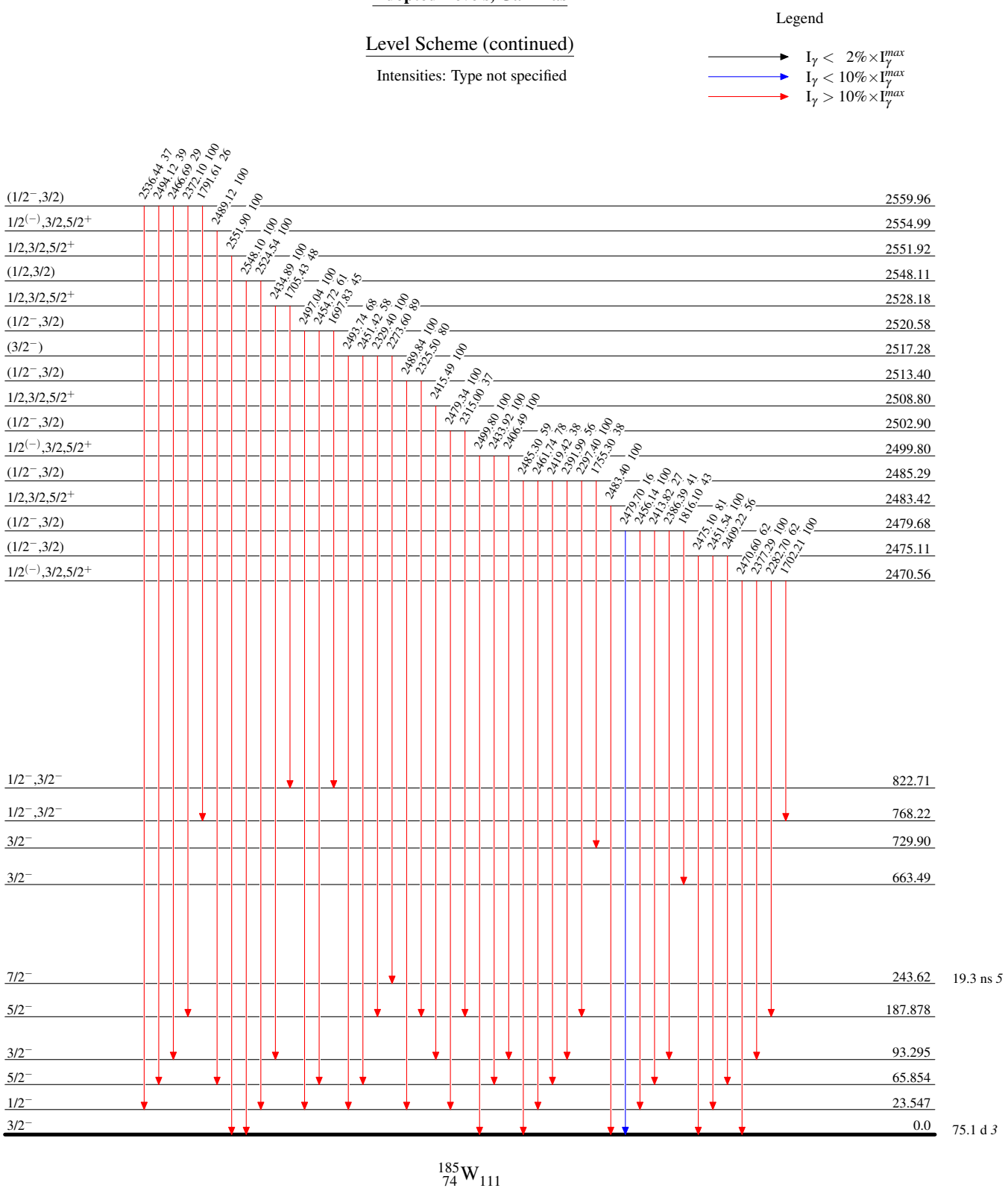


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

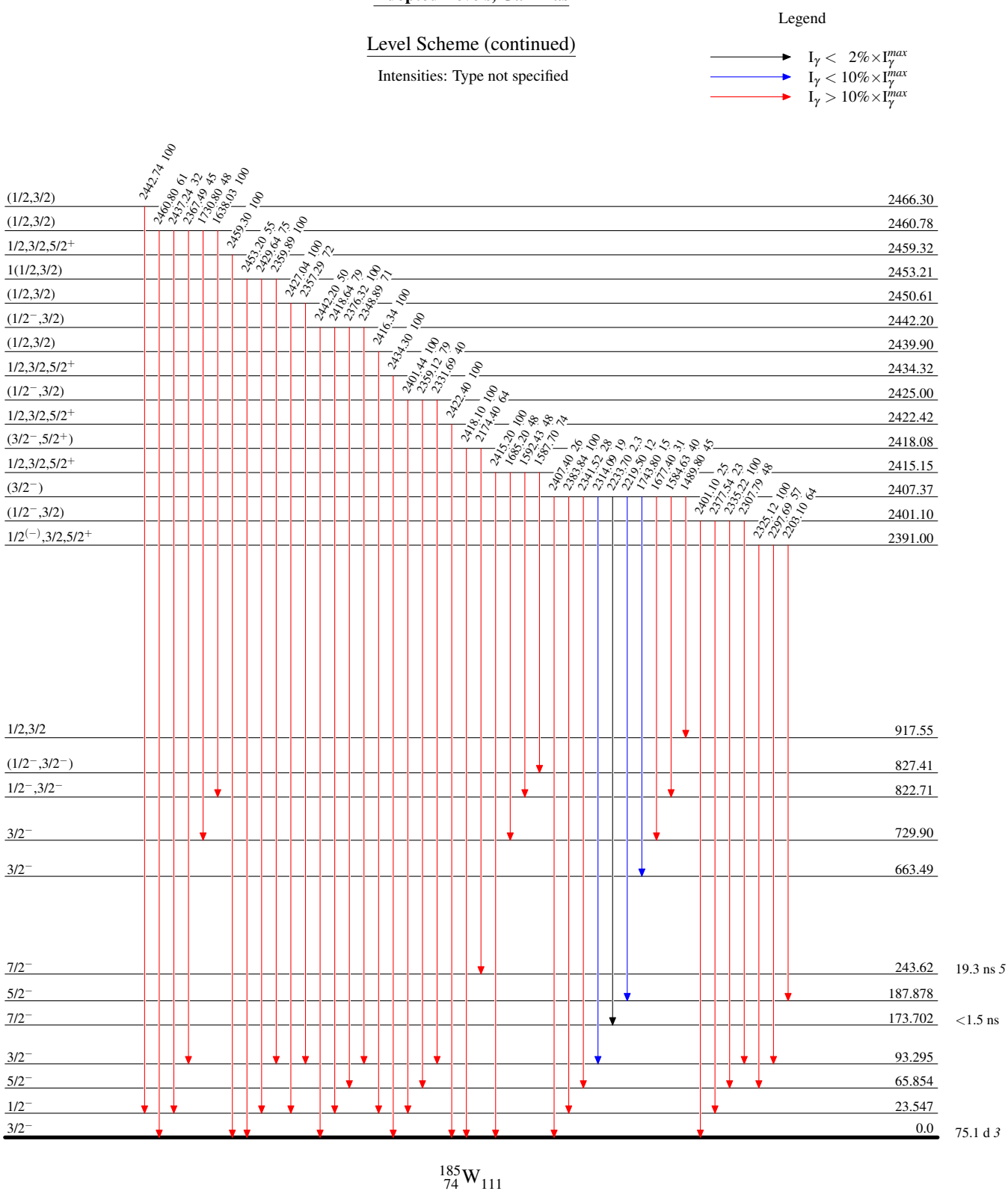


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

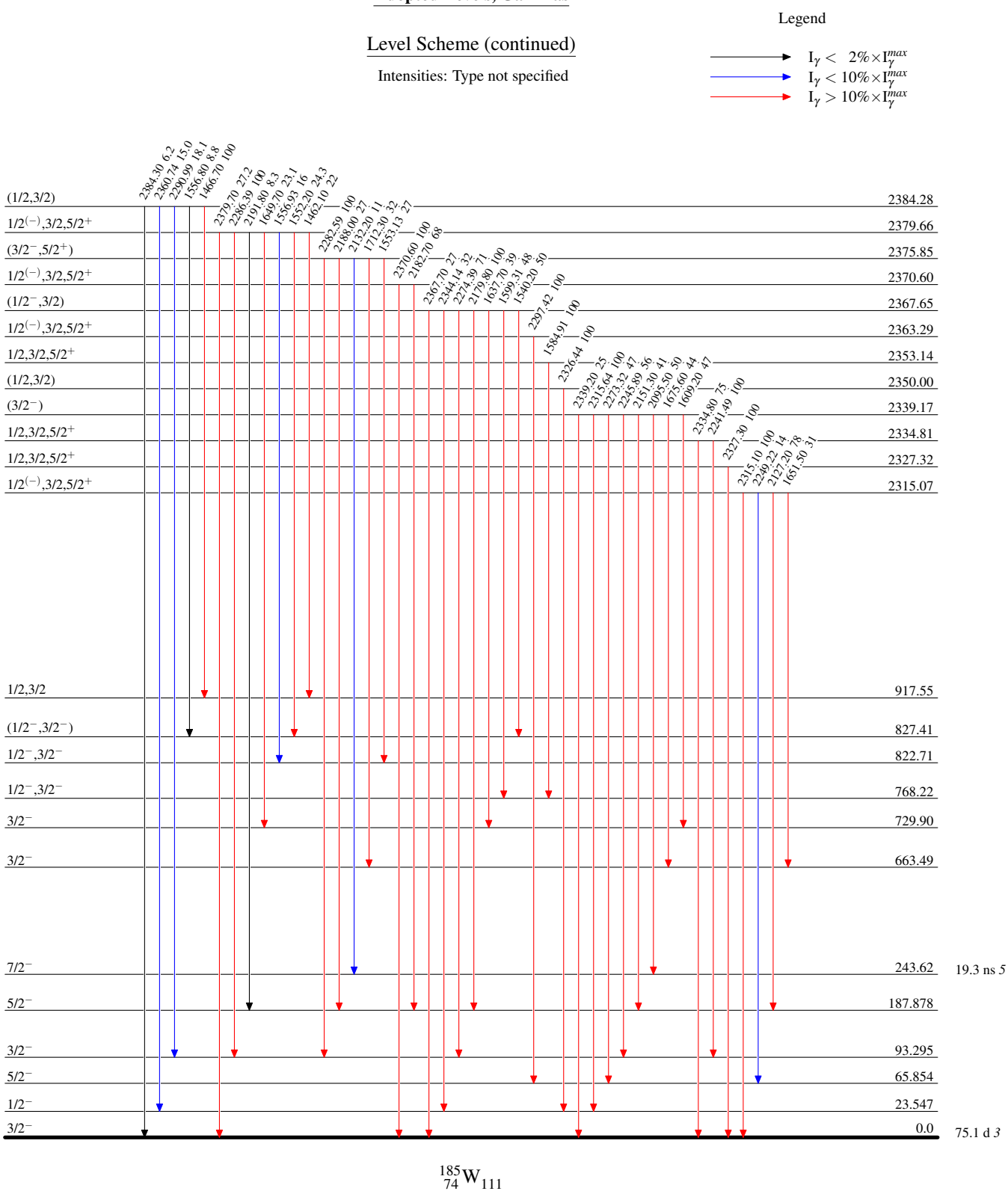


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

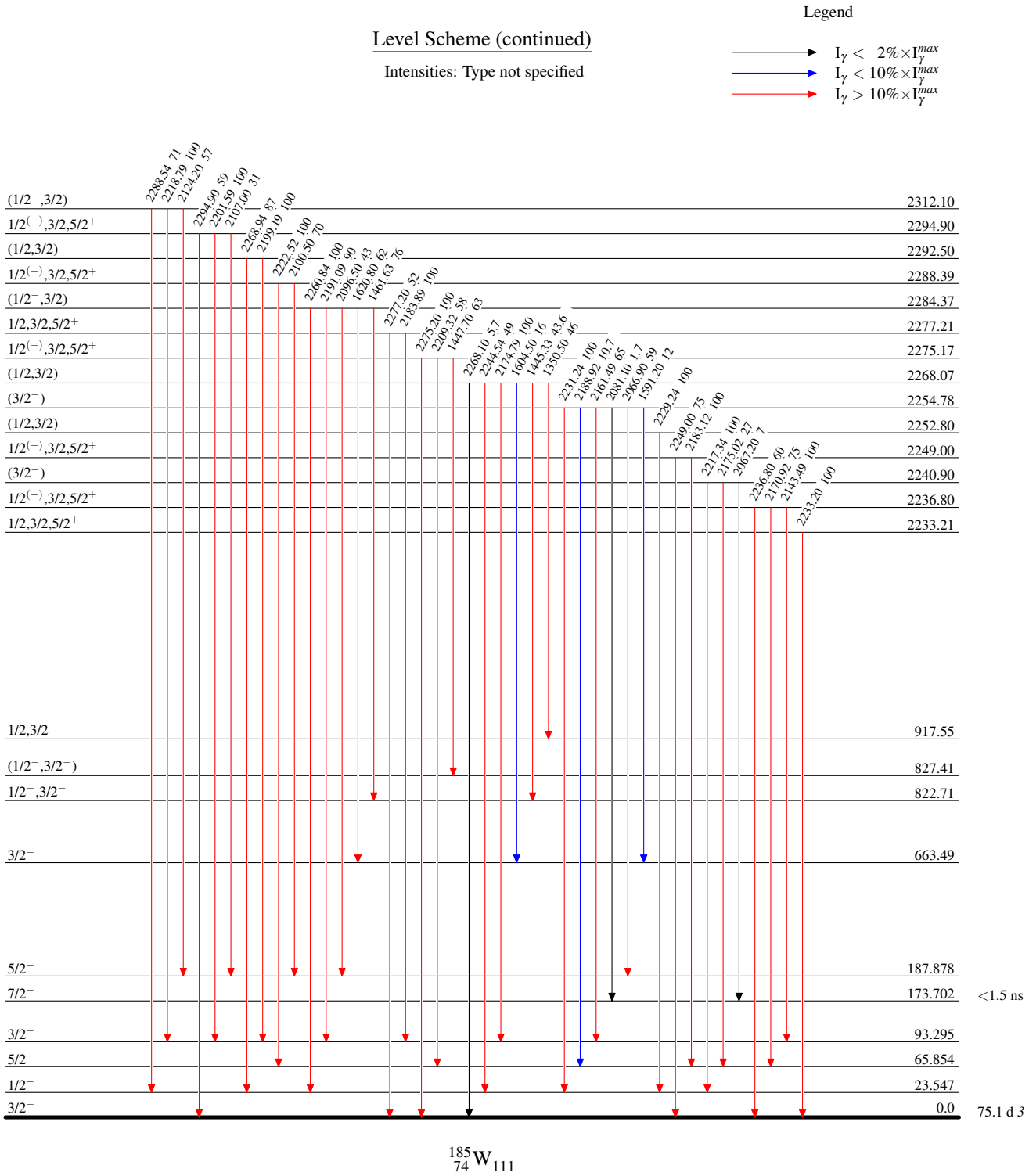
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

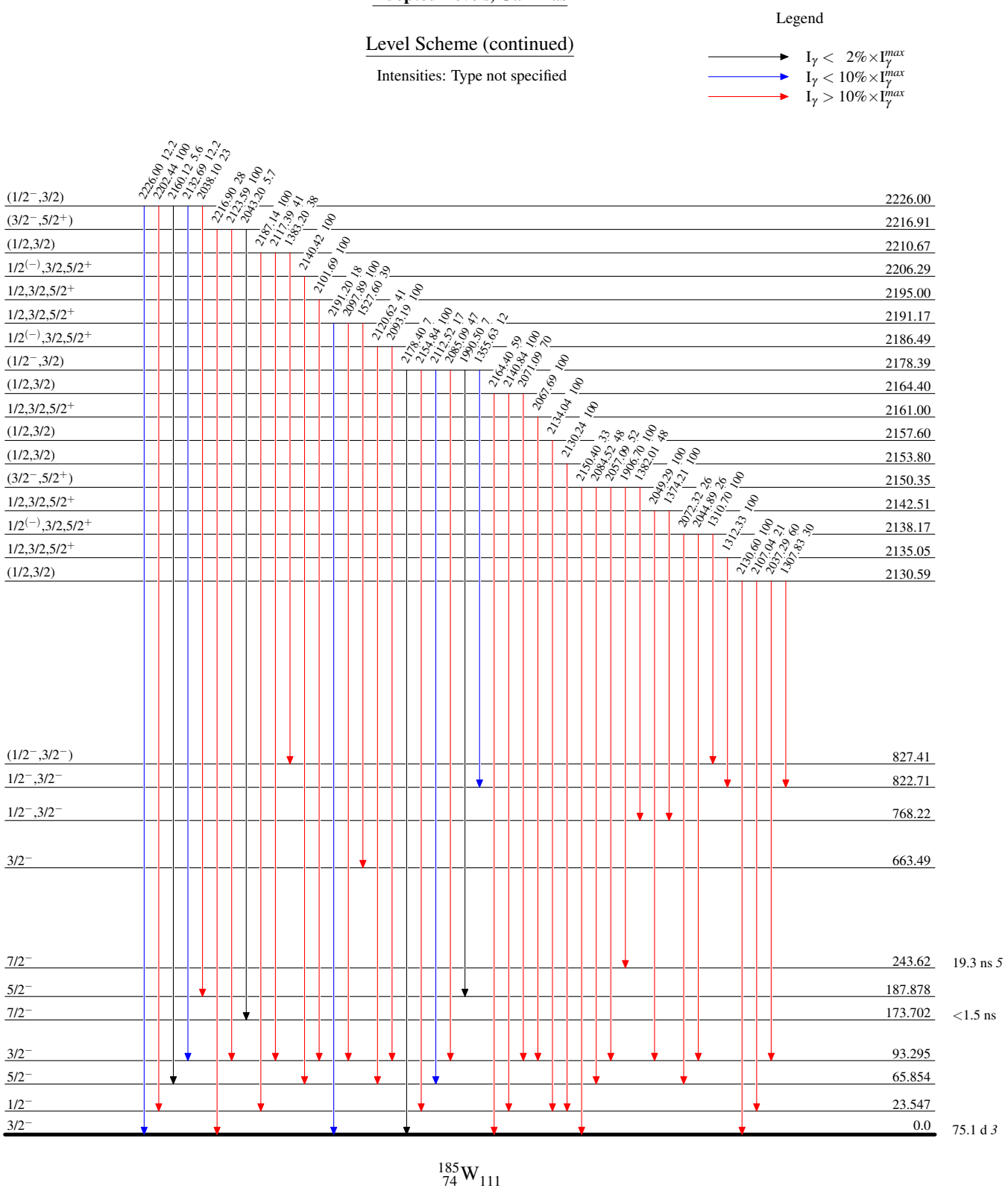
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

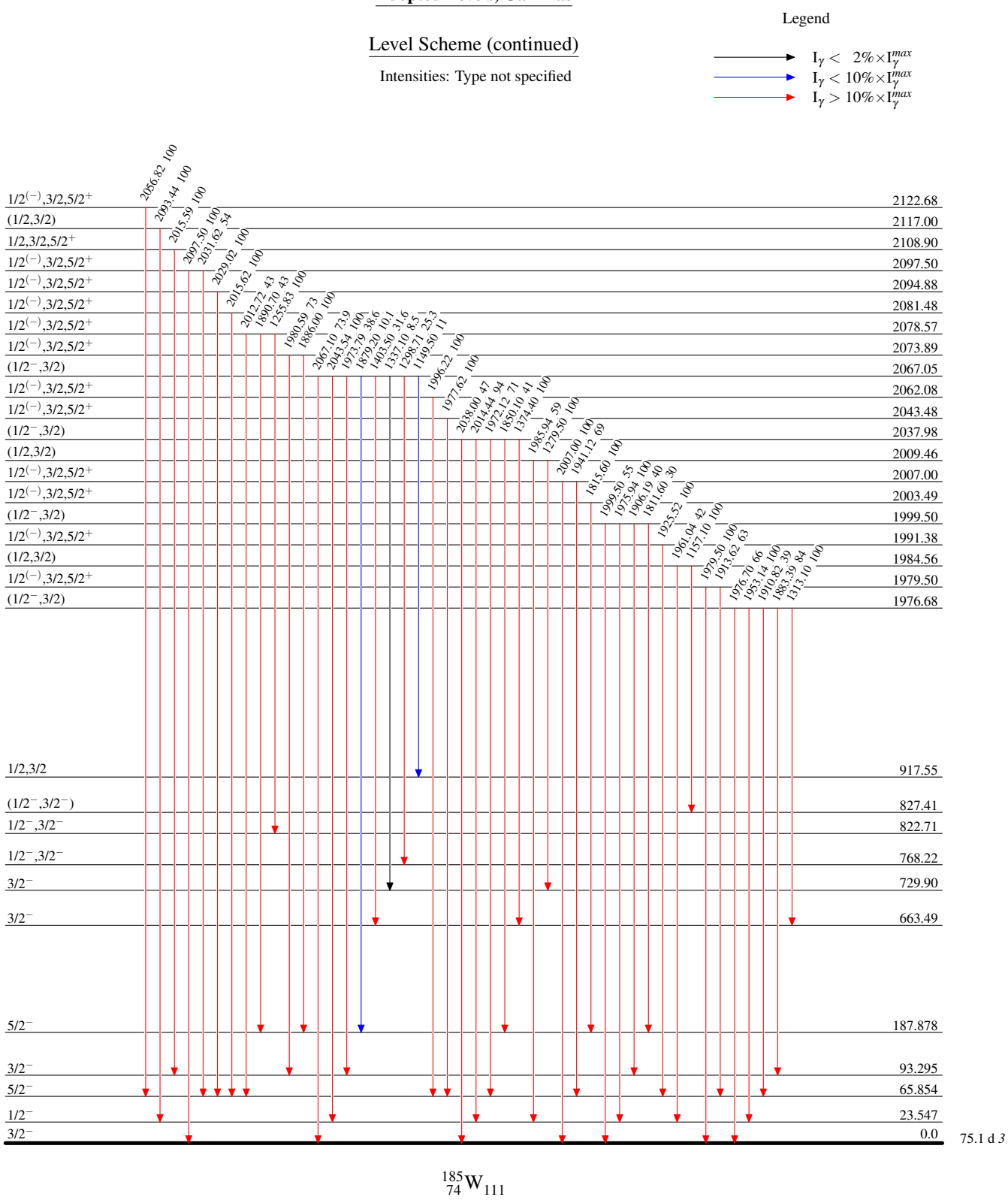


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

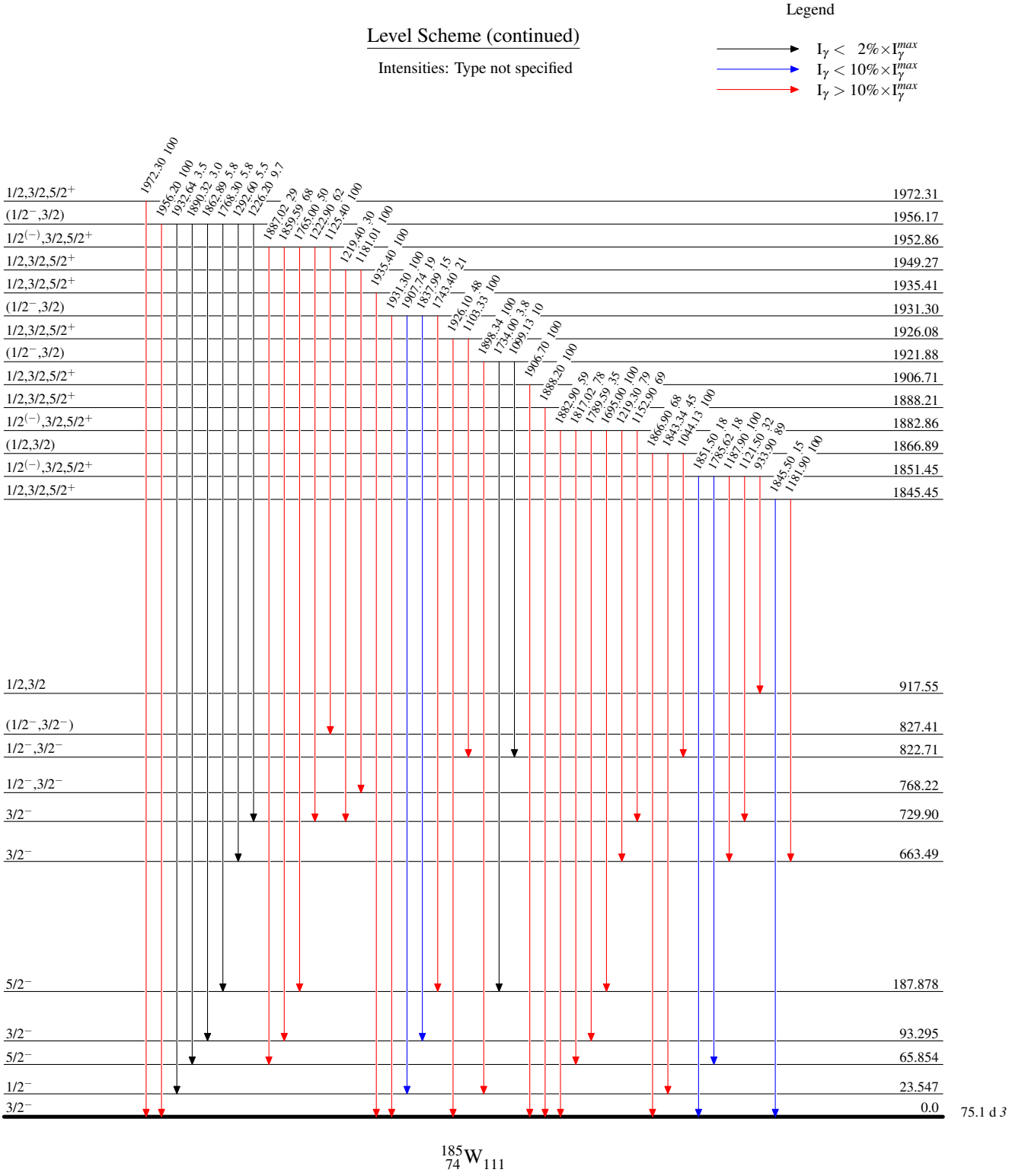
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

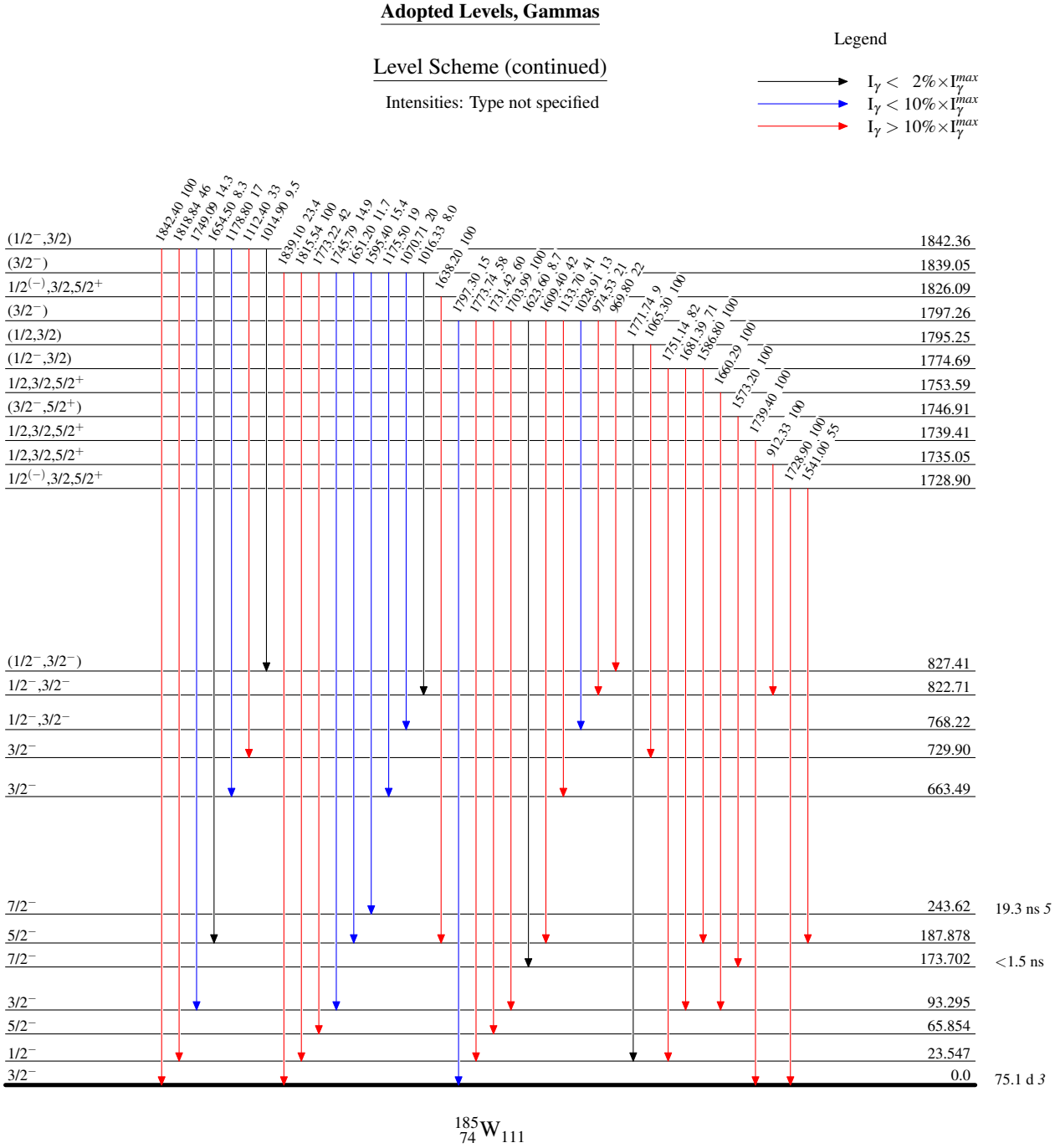
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

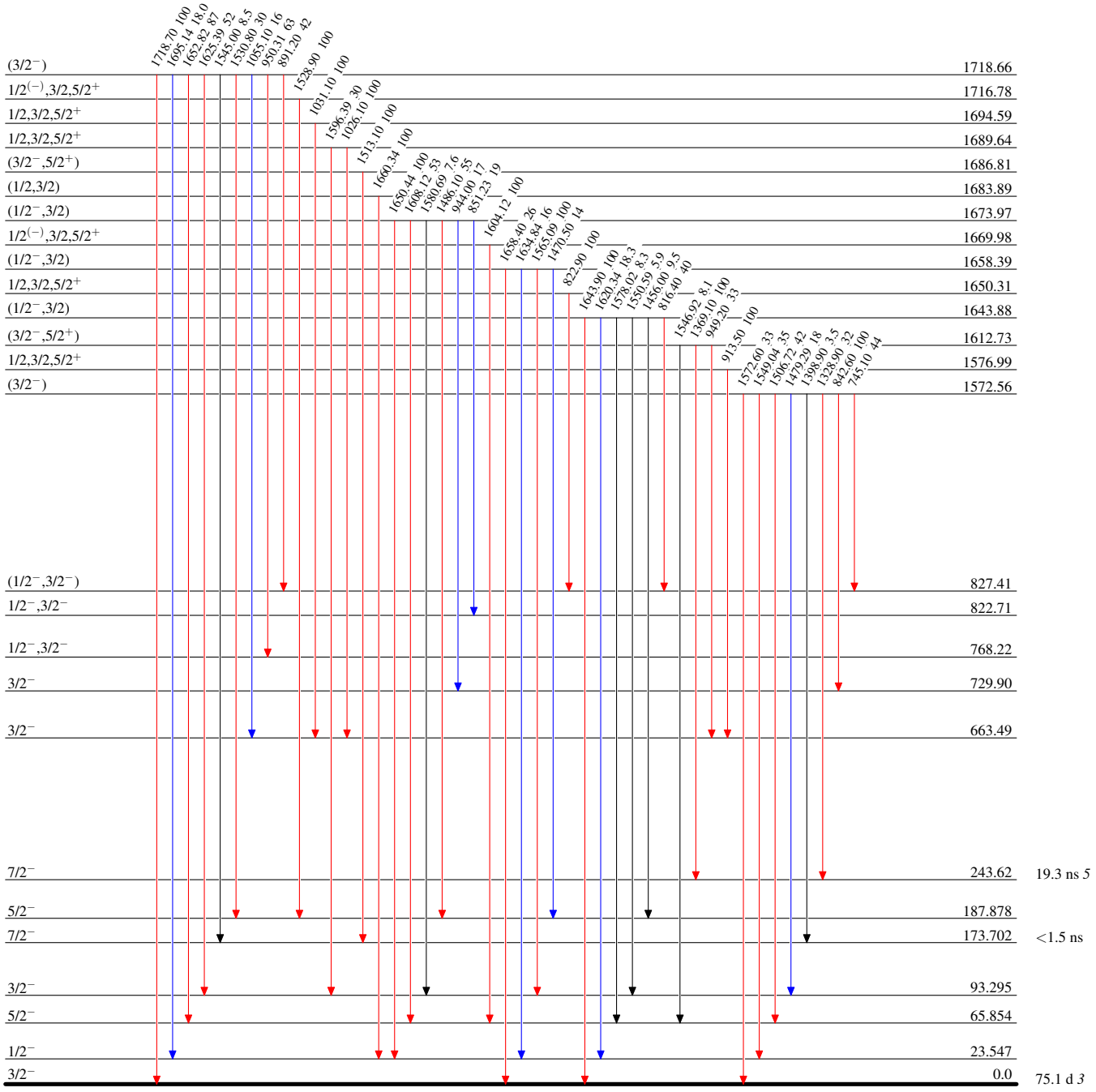
Intensities: Type not specified

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$

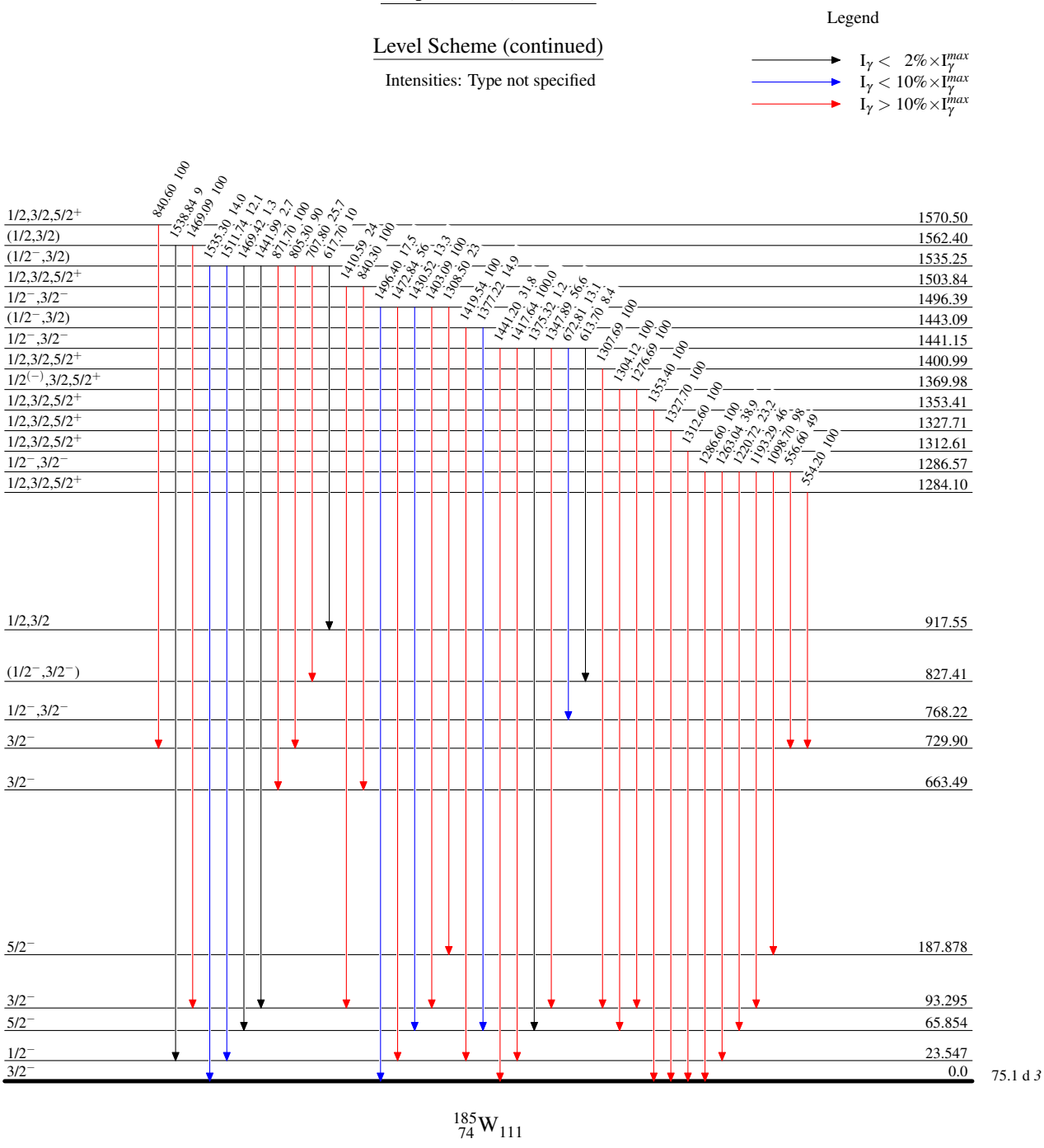


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

Level Scheme (continued)

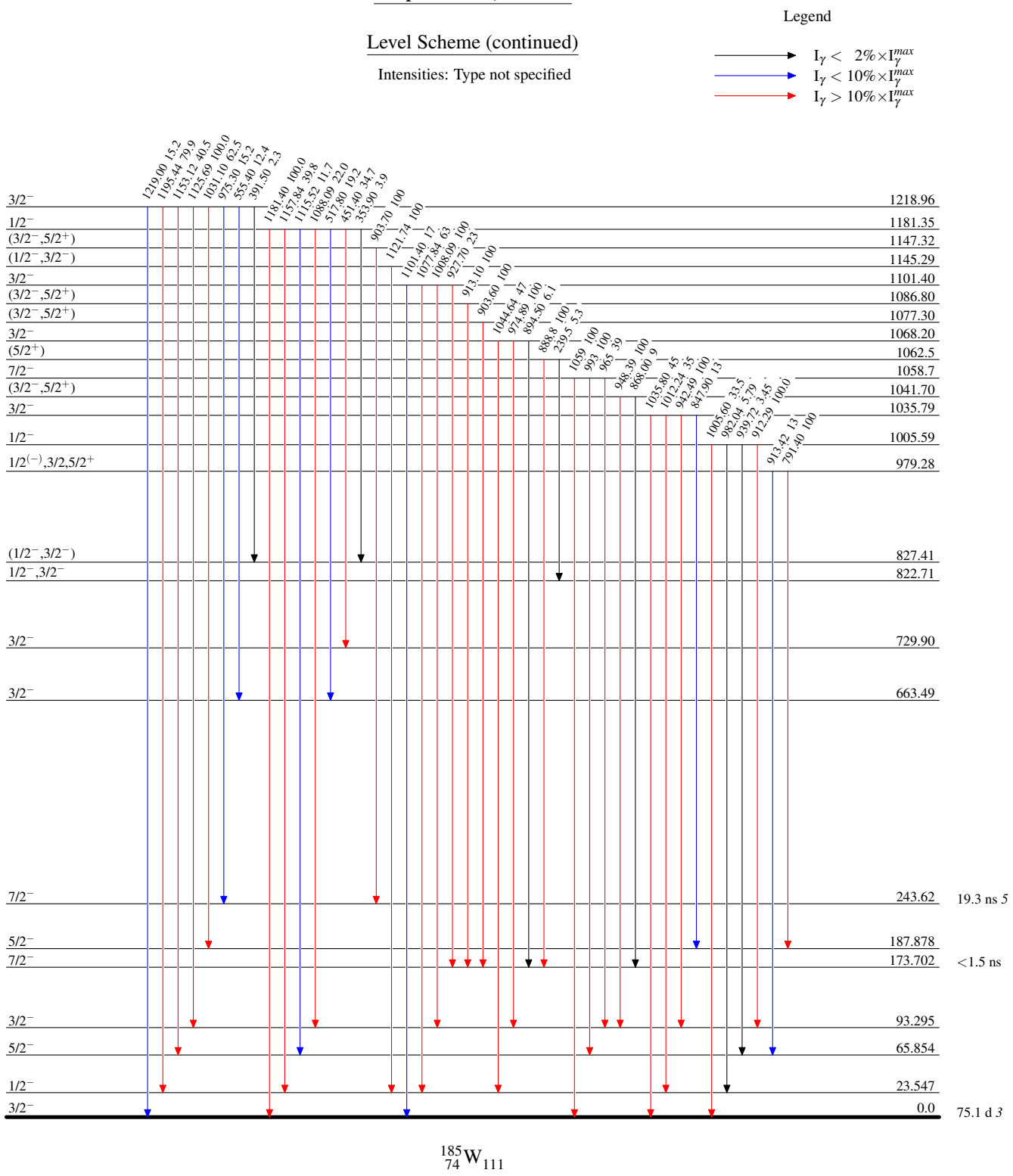
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



$^{185}_{74}W_{111}$

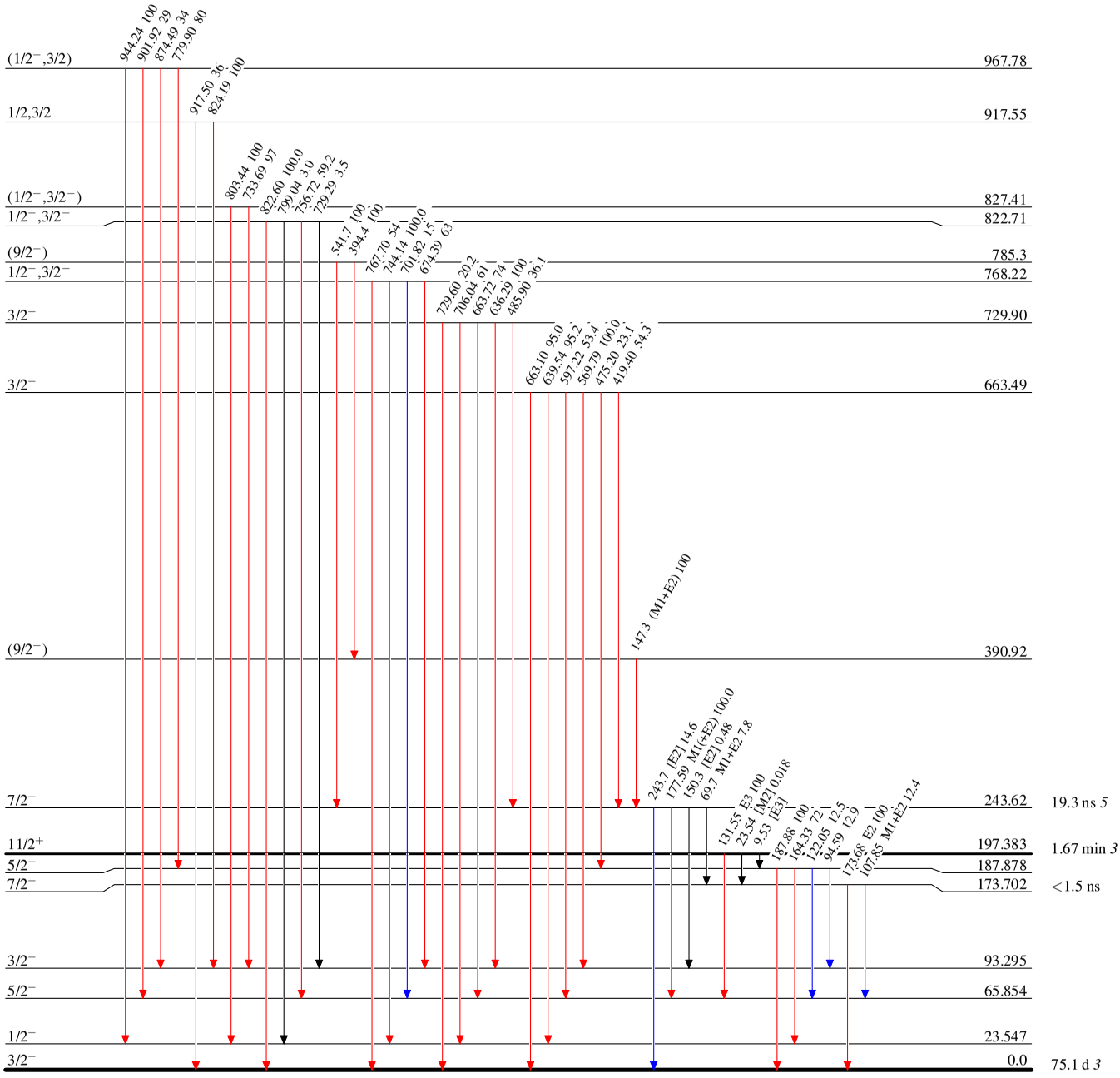
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)

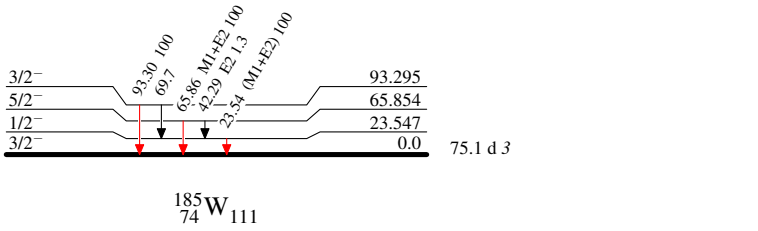


$^{185}_{74}W_{111}$

Adopted Levels, Gammas

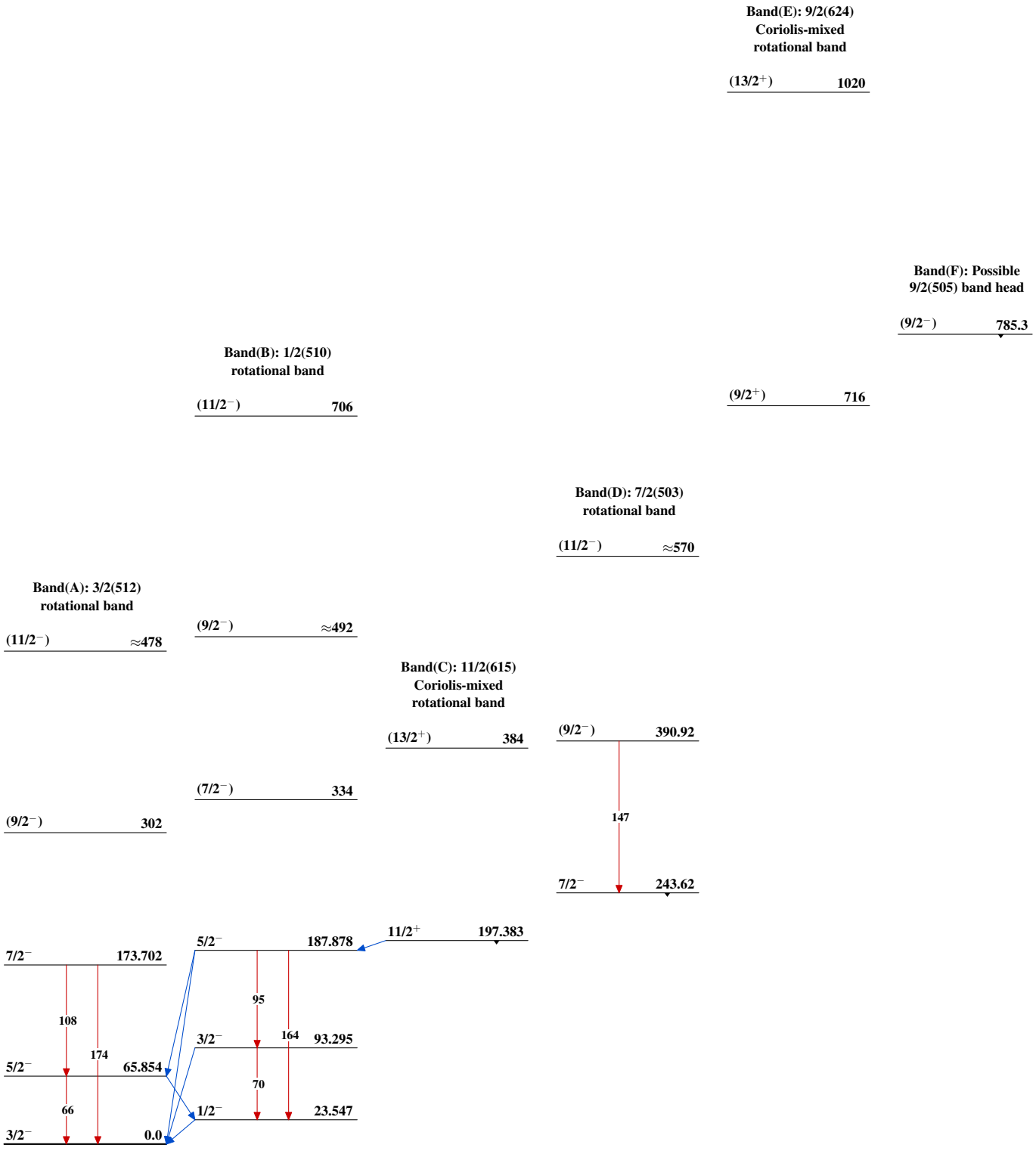
Level Scheme (continued)

Intensities: Type not specified



$^{185}_{74}W_{111}$

Adopted Levels, Gammas



$^{185}_{74}W_{111}$

Adopted Levels, Gammas (continued)

Band(H): 1/2(521) rotational band

(9/2⁻) 1361

(7/2⁻) 1335

Band(I): 7/2(514) rotational band

(9/2⁻) ≈1219

Band(J): K=1/2⁻ γ band, based on g.s

(7/2⁻) 1154

Band(G): 5/2(512) rotational band

(9/2⁻) ≈1118

(5/2⁻) 1118

3/2⁻ 1106

(5/2⁻) 1073

7/2⁻ 1058.7

3/2⁻ 1035.79

1/2⁻ 1013

1/2⁻ 1005.59

7/2⁻ 986

5/2⁻ 888.6

$^{185}_{74}W_{111}$