Adopted Levels, Gammas

History

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

Q(β^-)=−2548.2 *21*; S(n)=8351.7 *13*; S(p)=7512.8 *13*; Q(α)=1522.8 *5* 2021Wa16
S(2n)=14614.2 *25*, S(2p)=13455.7 *23* (2021Wa16).

Other reactions:
^{194}Pt(n,n′): 1989Cl08.
^{194}Pt(^{7}Li,^{7}Li′): 1984Da12.
^{195}Pt(γ,n): 2004Be49: measured isomer yields.
Additional information 1.
^{195}Pt(p,pn): 1970Co18.
^{194}Pt(^{76}Se,^{76}Se); ^{194}Pt(^{82}Se,^{82}Se): 1992Wo04.
^{194}Pt(γ,γ′): 1972Sh38.
Photonuclear reactions: 1974Da08.
^{196}Pt(n,xnyp) E=1-250 MeV: 2001Ta31: measured prompt γ, excitation functions.
Mass measurements: 2016Ei01, 2013Sh30, 2005Sh52, 1985De40, 1960Bh02.
Isotope shift: 1995Kr05.
1984Bu19: measured hyperfine structure (hfs), magnetic dipole hfs constants, electronic g(J) factors using ABMR technique.
Theoretical references: consult the NSR database (www.nndc.bnl.gov/nsr/) for 208 primary references dealing with nuclear structure calculations.

^{194}Pt Levels

Band assignments are from ^{197}Au(^{209}Bi,Xγ) (2015Ta25) and ^{192}Os(^{82}Se,Xγ) (2005Jo11).

Cross Reference (XREF) Flags

A	^{194}Ir β^- decay (19.18 h)	H	^{194}Pt(γ,γ′)	O	^{195}Pt(d,t)
B	^{194}Ir β^- decay (171 d)	I	^{194}Pt(e,e′)	P	^{196}Pt(p,t)
C	^{194}Au ε decay (38.02 h)	J	^{194}Pt(n,n′γ),(n,n′)	Q	^{197}Au(p,α)
D	^{192}Os(α,2nγ)	K	^{194}Pt(pol p,p′)	R	^{197}Au(^{209}Bi,Xγ)
E	^{192}Os(^{82}Se,Xγ)	L	^{194}Pt(p,p′),(d,d′),(α,α′)	S	Coulomb excitation
F	^{192}Pt(t,p)	M	^{194}Pt(^{12}C,^{12}C′)	T	Muonic atom
G	^{193}Ir(^{3}He,d)	N	^{195}Pt(p,d)		

E(level)†	Jπ‡	$T_{1/2}$	XREF	Comments
0.0@	0+	stable	ABCDEFGHIJKLMNOPQRST	Jπ: absence of hyperfine splitting (1935Fu06) consistent with J=0. <r^2>$^{1/2}$=5.4236 fm *25* (2013An02 evaluation). Δ<r^2>(^{192}Pt,^{194}Pt)=0.052 fm^2 *5*, average of 0.051 fm^2 *5* (1988Le22) and 0.053 fm^2 *5* (1987Ne09). Δ<r^2>(^{194}Pt,^{196}Pt)=0.054 fm^2 *5*, from 0.054 fm^2 5 (1988Le22) and 0.055 fm^2 *5* (1987Ne09). Others: 1992Hi07, 1988Bo31.
328.473@ *4*	2+	41.7 ps *17*	ABCDE GHIJKLMNOPQRST	μ=+0.59 *2* (1992Br03,2020StZV) Q=+0.48 *14* (1986Gy04,2016St14) Jπ: 328.5γ E2 to 0+. Also L(p,p′)=L(p,t)=2 from 0+. $T_{1/2}$: from B(E2)=1.649 *15* in Coulomb excitation. Uncertainty of 1% seems to be statistical only. Evaluators have assumed an uncertainty of 4% in deducing level half-life and B(E2)(W.u.). Others: 45.0 ps *24* from recoil-distance method (RDM) in Coulomb excitation , 51 ps *7* from Γ_γ in (γ,γ′) (1972Sh38), 35.0 ps *35* from $\gamma\gamma$(t) in ^{194}Ir β^- decay (1972Be53); 50.5 ps *22*

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$	XREF	Comments
				from RDM in Coulomb excitation (1971NoZV). μ: transient field integral perturbed angular correlations in Coulomb excitation (1992Br03). Others: +0.60 *3* (1995An15), +0.592 *44* (1991St04), 0.406 *12* (1982Le02, 1987Be08), 0.600 *23* (1975Ka42), +0.70 *6* (1974Ga31), 0.64 *6* (1972Do18), 0.49 *3* (1970Ke14), +0.54 *8* (1969Ku06), 0.64 *8* (1967Ka16), 0.52 *5* (1966Ag02), 0.45 *4* (1965Ke11), 0.66 *30* (1965Sp03), Values from 1975Ka42, 1970Ke14, 1966Ag02, 1965Ke11 are from IPAC technique in ^{194}Ir β^- decay and have been adjusted for adopted T$_{1/2}$ of 328.5 level based on their measured precession angles (see ^{194}Ir β^- decay dataset for original values of g-factors). Other values are from different techniques in Coulomb excitation. Additional information 2. Q: from Coulomb excitation reorientation (1986Gy04). Others: +0.63 *6* (1978Ba38), 0.125 *17* (1983Ch35), +0.77 *50* (1973Gr06), 0.64 *16* or 0.87 *18* (1969Gl08, 1968Gl01), 0.25 *17* (quoted by 1983Ch35 from muonic data of 1979HoZX). 1987Hi04 deduced Q=0.18 from a fit to (n,n′) scattering data. β_2=−0.154 *2* from 1981De12 in (p,p′), −0.170 *5* from 1987Hi04 in (n,n′), −0.15 from 1980Se05 in (p,t).
622.024[&] *4*	2$^+$	35 ps *4*	A CD GH JKLMNOPQ ST	μ=+0.56 *11* (1992Br03,2020StZV) Q=−0.5 *5* (1978Ba38,2014StZZ) J$^{\pi}$: 622.0γ E2 to 0$^+$; E0 component in 293.5γ to 2$^+$; L(p,t)=2 from 0$^+$. T$_{1/2}$: from ce-γ(t) in ^{194}Ir β^- (1972Be53). Other: 42 ps *3* from B(E2)(from g.s.)=0.0080 *4* in Coulomb excitation and adopted %I(γ+ce)=11.15 *15* for 622.0γ. μ: from g(622)/g(328)=0.95 *18*, transient field integral perturbed angular correlations in Coulomb excitation (1992Br03), and μ(328)=+0.60 *3*. Others: 0.69 *9* (1975Ka42), 0.55 *11* (1970Ke14), 0.53 *14* (1966Ag02), 0.46 *9* (1965Ke11), using IPAC method in ^{194}Ir β^- decay and adjusted for adopted T$_{1/2}$. Additional information 3. Q: from Coulomb excitation reorientation (1978Ba38). Not listed in 2020StZV evaluation. β_2(Coulomb)=−0.154 *2* ((p,p′), 1981De12). Other: (α,α′) (1976Ba35).
811.288[@] *7*	4$^+$	3.7 ps *2*	ABCDE IJKLMN PQRST	μ=+1.12 *12* (1992Br03,2020StZV) Q=+0.5 *10* (1978Ba38,2014StZZ) J$^{\pi}$: 482.8γ E2 to 2$^+$; L(p,p′)=L(p,t)=4 from 0$^+$. T$_{1/2}$: from Doppler-shift recoil-distance method in Coulomb excitation (1977Jo05). Others: 4.8 ps *14* from DSAM in 1977St26 in Coulomb excitation; 4.7 ps *2* from B(E2)(from 328.5, 2$^+$)=0.78 *3* in Coulomb excitation. μ: from g(811)/g(328)=0.95 *10*, transient field integral perturbed angular correlations in Coulomb excitation (1992Br03), and μ(328)=+0.60 *3*. Q: from Coulomb excitation reorientation (1978Ba38). Value is not listed in 2020StZV evaluation. β_4=−0.0455 *10* ((p,p′), 1981De12), −0.040 *5* ((n,n′), 1987Hi04). Others: (^{12}C,^{12}C′) (1979Ba19); (α,α′) (1976Ba35).
922.772[&] *6*	3$^+$		A CD J L N Q S	J$^{\pi}$: spin=3 from $\gamma\gamma(\theta)$ in ^{194}Ir β^- decay (1973Si22); 300.8γ and 594.3γ E2(+M1) to 2$^+$.
1229.520[&] *10*	4$^+$	3.8 ps *6*	A CD IJKL NOPQ S	J$^{\pi}$: L(p,p′)=L(p,t)=4 from 0$^+$; 607.5γ E2 to 2$^+$.

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
				$T_{1/2}$: from Doppler-shift attenuation method in Coulomb excitation (1977St26). Other: 1.53 ps *+7−9* from B(E2)(from 622.0, 2^+)=0.64 *+3−2* in Coulomb excitation (1996Wu07) and adopted %I(γ+ce)=81.0 *12* for 607.5γ.
1267.200 *6*	0^+	6.1 ps *14*	A C G J N PQ S	Jπ: spin=0 from γγ(θ) in ^{194}Ir β⁻; 645.2γ and 938.7γ E2 to 2^+.
				$T_{1/2}$: from B(E2)(from 622 level)=0.011 *+3−2* (1996Wu07) in Coulomb excitation and adopted branching ratio %I(γ+ce)=66.9 *4* for 645.2γ.
1373.772[a] *17*	(5^-)		BCDE J L N PQRST	Jπ: 562.5γ (E1) to 4^+; γ(θ) in (n,n′γ) consistent with J=5 not J=4 or 3; L(p,p′)=(5) from 0^+.
1411.83[@] *8*	6^+	1.6 ps *5*	B DE J L P RST	Jπ: L(p,t)=6 from 0^+; 600.5γ E2 to 4^+.
				$T_{1/2}$: from Doppler-shift attenuation method in Coulomb excitation (1977St26). Other: 1.11 ps *+3−8* from B(E2)(from 811.0, 4^+)=0.93 *+7−2* (1996Wu07) in Coulomb excitation.
1422.21 *11*	$(3,4)^+$		D J N PQ S	Jπ: L(p,d)=3 gives $J^\pi=2^+,3^+,4^+$. Absence of g.s. transition disfavors 2^+.
1432.551 *6*	3^-	110 ps *+10−9*	A CD IJ L P S	Jπ: L(p,p′)=L(p,t)=3 from 0^+; 1104.0γ E1 to 2^+, 621.3γ E1 to 4^+.
				$T_{1/2}$: from B(E3)=0.120 *8* in Coulomb excitation and adopted %I(γ+ce)=1.93 *4* for 1432.5γ. Other: B(E3)=0.157 *13* from (e,e′) (1988Bo08) gives $T_{1/2}$=84 ps *+10−8*.
1479.272 *6*	0^+		A C g J n Pq	Jπ: L(p,t)=0 from 0^+; also E0 transition to 0^+.
1485.04[a] *16*	(7^-)	3.45 ns *12*	B DE g L n PqR	μ=+1.8 *6* (2006Le06,2020StZV)
				Jπ: L(p,p′)=(7) from 0^+; 111.4γ (E2) to (5^-).
				$T_{1/2}$: from γγ(t) in ^{194}Ir β⁻ decay (171 d) (1970To14).
				μ: from g=+0.26 *8* (IPAD method in (α,2nγ),2006Le06).
1498.77[&] *20*	(5^+)		D J	Jπ: 576γ(θ) in (α,2nγ) and (n,n′γ) consistent with stretched E2 to 3^+. Also absence of transitions to levels with J≤2.
1512.004 *6*	2^+		A C G J L N PQ	Jπ: 700.7γ E2 to 4^+, 244.8γ and 1512.1γ (E2) to 0^+.
1529 *2*			L	E(level): from (p,p′) only.
1547.281 *8*	0^+	0.175 ps *+14−11*	A C J L N PQ S	Jπ: spin=0 from γγ(θ) in ^{194}Ir β⁻ (19.18 h); E0 transition to 0^+.
				$T_{1/2}$: from B(E2)(from 328.5, 2^+)=0.0191 *+11−13* (1996Wu07) and adopted %I(γ+ce)=79.5 *4* for 1218.8γ.
1584 *3*	$(0^+,1^+,2^+)$		N	E(level): from (p,d) only.
				Jπ: L(p,d)=(1) from $1/2^-$.
1592.8 *3*	(5^+)		D	Jπ: γ(θ) of 670γ to 3^+ consistent with mult=Q. The ΔJ=2 transition is E2 rather than M2.
1622.197 *7*	2^+		A C G J NO Q	XREF: O(1640).
				Jπ: 1622.2γ E2 to 0^+.
1670.667 *7*	2^+		A C G J L N PQ	Jπ: spin=2 from γγ(θ) in ^{194}Ir β⁻ (19.15 h); 1048.6γ M1 to 2^+.
1737.427 *14*	(3^-)		C L	Jπ: 223.9γ (M1+E2) from 2^-; 363.1γ to (5^-).
1778.578 *10*	2^+		A C G J N PQ	XREF: G(1780).
				Jπ: γγ(θ) in ^{194}Au ε decay gives J=1 or 2; 855.8γ to 3^+ is not E2 or M2 based on ce data

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
				in ^{194}Au ε decay; 1156.5γ M1(+E2) to 2$^+$. L(^{3}He,d)=0+2 from 3/2$^+$ also gives 1$^+$ or 2$^+$. A possible 345.98γ to 3$^-$ supports 2$^+$ but not 1$^+$.
1783.52[b] *11*	(6$^-$)		D J	Jπ: γ(θ) in (α,2nγ); 409.75γ M1+E2 to (5$^-$).
1797.390 *5*	1$^-$		A C J L N P	Jπ: 318.1γ, 530.2γ, 1797.4γ E1 to 0$^+$; 364.8γ E2 to 3$^-$.
1802.646? *14*	1$^+$,2$^+$		C	Jπ: 1802.6γ M1,E2 γ to 0$^+$.
1816.591 *8*	(2)$^+$		C J L N PQ	Jπ: L(p,d)=1+3 from 1/2$^-$; possible 1816.3γ to 0$^+$.
1871.6 *1*	2$^+$,3$^+$,4$^+$		g L N PQ	XREF: g(1880). E(level): from (p,t). Others: 1870 *1* in (p,p′), 1869 *3* in (p,d), 1873 *5* in (p,α). Jπ: L(p,d)=3 from 1/2$^-$.
1888.35 *9*	(2,3,4)		g J q	XREF: g(1880)q(1890). Jπ: 455.8γ(θ) to 3$^-$ does not allow ΔJ=2.
1893.588 *12*	0$^+$		A C L N Pq	XREF: q(1890). Jπ: L(p,t)=0 from 0$^+$; (E0) transition to 0$^+$; L(p,d)=1 from 1/2$^-$.
1912.9 *1*	(4$^+$)		KL PQ	E(level): from (p,t). Others: 1911 *5* in (p,α). Jπ: L(p,p′)=L(p,t)=(4) from 0$^+$.
1924.285 *8*	1$^+$		A C G J	XREF: G(1920). Jπ: 1924.3γ M1 γ to 0$^+$.
1925.85 *7*	(6$^+$)	1.3 ps *2*	S	Jπ: 696.4γ to 4$^+$, 514.0γ to 6$^+$; absence of γ rays to levels with J<4. $T_{1/2}$: from Doppler-shift attenuation method in Coulomb excitation (1977St26).
1930.368 *9*	2$^+$		A C J l n P	XREF: l(1932)n(1932). Jπ: L(p,d)=1+3 from 1/2$^-$; 1601.9γ M1(+E2) to 2$^+$, 1930.4γ to 0$^+$, 1119.1γ to 4$^+$.
1934.7 *1*			l n P	XREF: l(1932)n(1932). E(level): from (p,t).
1948.9 *1*			L P	E(level): from (p,t). Other: 1948 *3* from (p,p′).
1961.332 *7*	2$^-$		C J	Jπ: 163.95γ M1+E2 to 1$^-$, 528.77γ M1+E2 to 3$^-$; also E1 γs to 2$^+$.
1974 *2*			L q	XREF: q(1979). E(level): from (p,p′).
1981.3 *1*			L Pq	XREF: q(1979). E(level): from (p,t). Other: 1981 *2* from (p,p′).
1984.4 *3*	(6,7,8$^+$)		D	Jπ: 572.6γ to 6$^+$; absence of γ to J<6.
1991.69 *20*	(7$^-$)		D N Pq	XREF: D(?)q(1996). Jπ: L(p,d)=6 from 1/2$^-$ for a group at 1993; M1,E2 γ to (7$^-$); L(p,t)=(6,7) from 0$^+$.
1999.8[b] *3*	(8$^-$)		D q	XREF: q(1996). Jπ: 514.8γ M1+E2 to (7$^-$) and 514.8γ(θ).
2003.659 *13*	(2$^+$)		A C G J P	XREF: G(2000). Jπ: L(^{3}He,d)=0+2 for a group at 2000 *20*; 1675.2γ (M1) to 2$^+$, 1080.9γ (M1(+E2)) to 3$^+$; 2003.65γ to 0$^+$.
2032.8 *1*			L NoPQ	XREF: N(2025)o(2030). E(level): from (p,t). Others: 2030 *2* from (p,p′), 2025 *10* from (p,d), 2028 *5* from (p,α).
2043.718 *6*	1$^+$		A C J no	XREF: n(2049)o(2030). Jπ: 2043.7γ M1 γ to 0$^+$; L(p,d)=1 from 1/2$^-$.
2046.2 *3*			P	E(level): level seen in (p,t) only; it is different from the 2047.5, (9$^-$) level populated in (HI,xnγ).
2047.52[a] *17*	(9$^-$)		B DE R	Jπ: 562.5γ (E2) to (7$^-$); possible band assignment.
2053.018 *17*	(2)$^+$		A C J n P	XREF: n(2049). Jπ: weak β$^-$ feeding from 1$^-$ (log *ft*=9.0) and weak ε feeding

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)†	Jπ‡	$T_{1/2}$	XREF	Comments
				from 1^- (log *ft*=9.0); possible 1241.9γ to 4^+, 162.6γ M1(+E2) from 1^+.
2063.746 *9*	2^+		A C J NoPQ	Jπ: 1140.99γ M1 to 3^+; spin=1 or 2 from $\gamma\gamma(\theta)$ in ^{194}Au ε decay; L(p,d)=1 from $1/2^-$.
2073.6 *2*			L oP	E(level): from (p,t). Other: 2072 *3* from (p,p′).
2085.475 *11*	0^+		A C NoP	XREF: N(2090)o(2080). E(level): the observed group at E=2090 *5* in (p,d) with L=1+3 is either a doublet or a different level. Jπ: E0 transition to 0^+.
2099.55@ *12*	$(8)^+$	1.1 ps *3*	B DE RS	Jπ: 687.7γ (E2), ΔJ=(2) to 6^+; absence of transitions to levels with J <6; E2 excitation in Coulomb excitation. $T_{1/2}$: from Doppler-shift attenuation method in Coulomb excitation (1977St26). Other: 0.65 ps *+7−4* from B(E2)(from 1411.9, 6^+)=0.73 *+5−7* in Coulomb excitation.
2109.068 *13*	$(2)^+$		A C L noP	XREF: L(2104)n(2115)o(2130). Jπ: ce data from ^{194}Au ε decay (38.02 h) give Mult=D+Q for 1186.37γ to 3^+ and 1487.08γ to 2^+; L(p,d)=1+3 from $1/2^-$ for a group at E=2115 *5*, a possible 2109+2114 doublet, favors 2^+.
2114.106 *8*	1^+		A C no	XREF: n(2115)o(2130). Jπ: 846.96γ and 2114.1γ M1 γ to 0^+. Other: J=2 from (1786γ)(328γ)(θ) in ^{194}Ir β^- decay (19.18 h) (1965Ma10) is inconsistent.
2117.7 *1*			P	
2126.5 *1*	(4^+)		L oPq	XREF: o(2130)q(2129). E(level): from (p,t). Other: 2126 *2* from (p,p′). Jπ: L(p,p′)=L(p,t)=(4) from 0^+.
2131.126 *11*	(2^+)		C g noPq	XREF: g(2150)n(2138)o(2130)q(2129). Jπ: possible 1802.6γ (doublet) M1,E2 to 2^+, possible 1319.7γ to 4^+ and possible 2131.08γ to 0^+.
2134.123 *14*	$1^+,2^+$		A C g J no q	XREF: g(2150)n(2138)o(2130)q(2129). Jπ: 1805.7γ M1(+E2) to 2^+; spin=1 or 2 from $\gamma\gamma(\theta)$ in ^{194}Au ε decay (38.02 h).
2140.696 *12*	$(1^+,2^+)$		A C g J noP	XREF: g(2150)n(2138)o(2130). Jπ: 1812.2γ (M1) to 2^+, 2140.7γ to 0^+.
2154 *2*	3^-		L	Jπ: L(p,p′)=3 from 0^+.
2157.995 *14*	$(2)^+$		A C g J n Pq	XREF: g(2150)n(2161)q(2163). Jπ: 1829.5γ M1(+E2) to 2^+, 1346.7γ to 4^+; spin=1 or 2 from $\gamma\gamma(\theta)$ in ^{194}Au ε decay (38.02 h).
2163.747 *10*	0^+		C n Pq	XREF: n(2161)q(2163). XREF: S(2163). Jπ: E0 transition to 0^+; 1835.3γ E2 to 2^+.
2165 *2*	(5^-)		L q	XREF: q(2163). Jπ: L(p,p′)=(5) form 0^+.
2175.4 *1*			PQ	E(level): from (p,t). Other: 2171 *5* from (p,α).
2184.910 *12*	$1^+,2^+$		C P	Jπ: 1562.89γ M1(+E2) to 2^+; spin=1 or 2 from $\gamma\gamma(\theta)$ in ^{194}Au ε decay (38.02 h).
2192.9 *1*	$(6^-,7^-)$		L N P	E(level): from (p,t). Others: 2192 *4* from (p,p′) and 2191 *10* from (p,d). Jπ: L(p,d)=6 from $1/2^-$ for an unresolved doublet at E=2191 *20*, assuming $i_{13/2}$ shell.
2214.525 *9*	(2^+)		C J N Pq	XREF: q(2210). Jπ: 1291.8γ (M1(+E2)) to 3^+, 702.5γ (M1) to 2^+, 2214.47γ to 0^+; L(p,d)=1+3 from $1/2^-$ suggesting 2^+ for a group at 2214 *5*.
2215.534 *6*	1^+		C J q	XREF: q(2210). Jπ: 668.2γ, 736.2γ, 948.3γ M1 to 0^+.
2219.0 *3*			L P	E(level): from (p,t). Other: 2222 *2* from (p,p′).

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)†	Jπ‡	XREF	Comments
2228.3 *1*		P	
2239.636 *8*	(2)⁻	C n	XREF: n(2240). Jπ: 1617.6γ E1 to 2⁺, 1316.9γ to 3⁺; ε feeding from 1⁻ (log *ft*=7.7).
2246 *2*	3⁻	L n	XREF: n(2240). E(level): from (p,p′). Jπ: L(p,p′)=3 from 0⁺.
2248.2 *1*	(4⁺)	P	Jπ: L(p,t)=(4) from 0⁺.
2250.665? *21*	(1,2⁺)	C	Jπ: possible 1922.2γ to 2⁺ and 2250.7γ to 0⁺.
2275.6 *1*	(2⁺,3⁺,4⁺)	N PQ	E(level): from (p,t). Others: 2270 *5* from (p,d), 2269 *5* from (p,α). Jπ: L(p,d)=(3) from 1/2⁻.
2287.376 *10*	(1⁺,2⁺)	C L P	XREF: L(2285). Jπ: 1958.9γ (M1(+E2)) to 2⁺, 2287.3γ to 0⁺; ε feeding from 1⁻ (log *ft*=7.8).
2297.2 *1*	(7⁻,8⁺)	P	Jπ: L(p,t)=(7,8) from 0⁺.
2298.157 *8*	1⁺	C J n	XREF: n(2302). E(level): the 2302 group in (p,d) with L(p,d)=1+3 (implying $J^{\pi}=2^{+}$) may be a doublet or a different level. Jπ: 818.9γ, 1031.0γ, 2298.2γ M1 to 0⁺.
2309.0 *1*		P	
2309.6 *3*	(11⁻)	D	Jπ: 262.1γ(θ) to (9⁻) is consistent with ΔJ=2.
2311.875 *8*	2⁺	C L n	XREF: L(2309)n(2302). Jπ: strong E0 component in 1983.4γ to 2⁺, 1500.7γ (E2) to 4⁺, 2311.9γ (E2) to 0⁺; 197.8γ M1 to 1⁺.
2324.1 *1*	(6⁻,7⁻)	L N P	XREF: N(2332). E(level): from (p,t). Others: 2323 *4* from (p,p′), 2332 *5* from (p,d). Jπ: L(p,d)=6 from 1/2⁻ assuming $i_{13/2}$ orbit for a group at E=2332 *5*.
2356.059 *14*	0⁺	C l	Jπ: E0 transition to 0⁺. E(level): 2356.3 *1* (2010Il03) and 2353 *2* (1979De25) in (p,t) with L=(4) (1979De25) suggesting (4⁺) and non-zero L(p,t) in 2010Il03 has been listed as a separate level, assuming that angular distributions in (p,t) are correct.
2356.3 *1*	(4⁺)	l P	E(level): 2356.3 *1* from 2010Il03 and 2353 *2* from 1979De25 in (p,t), with L(p,t)=(4) in 1979De25 and non-zero L(p,t) in 2010Il03 is probably a different level from 2356.059, 0⁺ level, assuming that angular distributions in (p,t) are correct.
2365.932 *21*	1⁺	C l n	XREF: l(2370)n(2363). Jπ: 2365.9γ M1 to 0⁺. The group at 2363 *5* in (p,d) with L=(1+3) suggesting (2⁺) could be a doublet; the σ(θ) data in (p,d) also consistent with L=(1+4).
2369.9 *1*		l n P	XREF: l(2370)n(2363). E(level): from (p,t). Jπ: see comment for 2365 level.
2385.2 *1*		P	
2397.321 *14*	2⁺	C J L NoP	XREF: L(2395)N(2394)o(2410)P(2395.3). E(level): other: 2395.3 *5* from (p,t) may be a different level. Jπ: L(p,d)=1+3 from 1/2⁻ for a group at 2394 *5*.
2407.8 *1*		L noP	XREF: L(2404)n(2411)o(2410). E(level): from (p,t). Other: 2404 *2* from (p,p′).
2412.744 *13*	1⁺	C l no	XREF: l(2418)n(2411)o(2410). Jπ: 2412.7γ M1 to 0⁺. L(p,d)=(0) from 1/2⁻ suggesting (0⁻,1⁻) for a group at 2411 *10* is inconsistent.
2423.6 *4*	(6⁺,7,8⁺)	B l no	XREF: B(?)l(2418)n(2427)o(2410). Jπ: 1011.8γ to 6⁺, possible 324.0γ to (8)⁺.
2429.5 *1*		n P	XREF: n(2427). E(level): from (p,t).
2438.44 *19*	(10⁺)	B DE R	Jπ: 338.8γ (E2), ΔJ=2 to (8)⁺, 391.0γ (E1) to (9⁻); possible

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
				configuration=$\pi h^{-2}_{11/2}$ (2006Le06) from (^{82}Se,Xγ) .
2444.5 *1*	(0$^+$,1$^+$,2$^+$)		N P	XREF: N(2450). E(level): from (p,t). Jπ: L(p,d)=(1) for a group at 2450 *5*.
2451.1[c] *13*	(12$^+$)	5.9 ns *8*	D R	μ=−2.0 *8* (2006Le06,2014StZZ) XREF: D(?). $T_{1/2}$: weighted average of 6.4 ns *8* from ^{194}Ir β$^-$ decay (171 d) and 5 ns *1* from (α,2nγ). Jπ: possible band member of $i^{-2}_{13/2}$ configuration from systematics and g factor measurements. $T_{1/2}$: βγ(t) in ^{194}Ir β$^-$ decay (1970To14). Other 5 ns *1* in (α,2nγ). Other: 6.6 ns *6* only listed in Fig. 1 of 2015Ta25, with no data shown. μ: from g=−0.17 *7* (IPAD method in (α,2nγ),2006Le06). Value is not listed in 2020StZV evaluation.
2457.3 *1*			P	
2473.3 *3*	(0$^+$,1$^+$,2$^+$)		N P	E(level): from (p,t). Other: 2472 *5* from (p,d). Jπ: L(p,d)=1(+3) from 1/2$^-$.
2481.9 *1*			P	
2500.9 *2*			g n P	XREF: g(2520)n(2500). E(level): from (p,t). Other: 2500 *10* from (p,d) for a triplet. Jπ: L(p,d)=(1+3) from 1/2$^-$ suggesting (2$^+$) for a triplet of unresolved levels at 2500, 2515 and 2530; L(^{3}He,d)=0+2 from 3/2$^+$ suggesting 1$^+$,2$^+$ for a group at 2520 *25* also for a composite peak.
2511.0 *1*	0$^+$		n P	XREF: n(2515). Jπ: L(p,t)=0 from 0$^+$.
2517.20 *24*	1[#]		gH n P	XREF: g(2520)n(2515). E(level): other: 2517.6 *2* from (p,t).
2528.1 *1*	(2$^+$)		g n P	XREF: g(2520)n(2530). Jπ: L(p,t)=(2) from 0$^+$.
2536 *3*			g L n	XREF: g(2520)n(2530). E(level): from (p,p′).
2544.3 *1*	3$^-$		L noP	XREF: n(2530)o(2560). E(level): from (p,t). Other: 2543 *3* from (p,p′). Jπ: L(p,p′)=3 from 0$^+$.
2554.1 *1*			noP	XREF: n(2557)o(2560). E(level): from (p,t). Jπ: L(p,d)=(1+3) suggesting (2$^+$) for a group at 2557 *10*.
2557.8 *2*			noP	XREF: n(2557)o(2560). E(level): from (p,t). Jπ: L(p,d)=(1+3) suggesting (2$^+$) for a group at 2557 *10*.
2569.9 *1*	(6$^+$)		l oP	XREF: l(2575)o(2560). E(level): from (p,t). Jπ: L(p,t)=(6) from 0$^+$.
2577.30 *24*	1[#]		H l oP	XREF: l(2575)o(2560). E(level): other: 2576.7 *1* from (p,t).
2586.6 *1*			L P	E(level): from (p,t). Other: 2586 *5* from (p,p′).
2599.5 *1*			P	
2607.9 *3*			n P	XREF: n(2615). E(level): from (p,t). Jπ: L(p,d)=(1) giving (0$^+$,1$^+$,2$^+$) for a group at 2615 *10*, probably a doublet.
2616.4 *1*			n P	XREF: n(2615). E(level): from (p,t).

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
				Jπ: L(p,d)=(1) giving (0+,1+,2+) for a group at 2615 *10*, probably a doublet.
2630.6 *1*			n P	XREF: n(2640). E(level): from (p,t). Jπ: L(p,d)=(3) giving (2+,3+,4+) for a group at 2640 *10*, probably a doublet.
2640.0 *1*	(4+)		n P	XREF: n(2640). E(level): from (p,t). Jπ: L(p,t)=(4) from 0+.
2660.5 *2*			n P	XREF: n(2667). Jπ: L(p,d)=(1) giving (0+,1+,2+) for a group at 2667 *10*, probably a doublet.
2663.4 *4*	(10,11,12+)		E	Jπ: 225.0γ to (10+).
2676.4 *1*	(0+,1+,2+)		L n P	XREF: n(2667). E(level): from (p,t). Other: 2677 *3* from (p,p′). Jπ: L(p,d)=(1) giving (0+,1+,2+) for a group at 2667 *10*, probably a doublet.
2685.7 *1*	(2+,3+,4+)		L n P	XREF: n(2690). E(level): from (p,t). Other: 2688 *5* from (p,p′). Jπ: L(p,d)=(3) from 1/2− for a group at 2690 *10*.
2689.25 *12*	(8+)	0.61 ps *+9−11*	S	Jπ: 763.4γ to (6+); absence of transitions to levels with J<6. $T_{1/2}$: from B(E2)(from 1925.9, 6+)=0.46 *+10−6* (1996Wu07) in Coulomb excitation.
2695.3 *1*			L n P	XREF: L(2698)n(2690). E(level): from (p,t). Other: 2698 *3* from (p,p′).
2700.1[a] *3*	(11−)		DE R	Jπ: 652.6γ ΔJ=(2) to (9−); possible band assignment.
2703.1 *2*	(6+)		noP	XREF: n(2710)o(2720). Jπ: L(p,t)=(6) from 0+.
2710.5 *2*			noP	XREF: n(2710)o(2720).
2717.9 *2*			noP	XREF: n(2710)o(2720).
2720.2 *3*	1[#]		H noP	XREF: n(2710)o(2720). E(level): other: 2721.7 *1* from (p,t).
2739.7 *1*			noP	XREF: n(2743)o(2720). Jπ: L(p,d)=(1+3) suggesting (2+) for an unresolved doublet at 2743 *10*.
2747.0 *1*			n P	XREF: n(2743). Jπ: L(p,d)=(1+3) suggesting (2+) for an unresolved doublet at 2743 *10*.
2755.4 *1*			P	
2769.9 *2*	(0+)		P	Jπ: L(p,t)=(0) from 0+.
2771.9 *4*			P	
2783 *10*	(2+)		N	E(level): probably a doublet. Jπ: L(p,d)=(1+3) from 1/2−.
2795.1 *2*			P	
2799.6 *1*			P	
2805.3 *2*			P	
2817.3 *2*	(2+)		N P	XREF: N(2826). Jπ: L(p,d)=(1+3) suggesting (2+) for a group at 2826 *10*.
2842.1[c] *13*	(14+)		DE R	XREF: E(2829). Jπ: 391.0γ to (12+); band member.
2842.2 *1*			P	
2848.6[@] *10*	(10+)	1.05 ps *+30−22*	E S	Jπ: 749γ to (8)+; band assignment. $T_{1/2}$: from B(E2)(from 2099,8+)=0.28 *+7−6* (1996Wu07) in Coulomb excitation.

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
2850.2 *1*			P	
2855.8 *1*			g P	XREF: g(2880).
2862.7 *1*			g n P	XREF: g(2880)n(2870).
2878.7 *2*			g n P	XREF: g(2880)n(2870). Jπ: L(^{3},d)=0+2 suggesting $1^+,2^+$ for a group at 2880 *29*, probably a multiplet of 2856+2863+2879+2895+2908 levels.
2882.4 *1*			g P	XREF: g(2880).
2895 *3*	(2^+)		g N P	XREF: g(2880). Jπ: L(p,d)=(1+3) suggesting (2^+) for a doublet of unresolved levels at 2895 *10* and 2908 *10*.
2908 *10*			g N	XREF: g(2880). Jπ: see comments for 2895 level.
2916.6 *10*	(10^+)	0.54 ps *+26–12*	E S	Jπ: 817γ to $(8)^+$; no γ to levels with J<8. $T_{1/2}$: from B(E2)(from $2099,8^+$)=0.35 *+9–11* (1996Wu07) in Coulomb excitation.
2956 *10*	(2^+)		N	Jπ: L(p,d)=(1+3) from $1/2^-$.
2980 *10*			g No	XREF: g(3010)o(2990). Jπ: see comments for 3000 level.
2990.1?[a] *11*	(13^-)		E	Jπ: 290γ to (11^-); band member.
3000 *10*	(2^+)		g No	XREF: g(3010)o(2990). E(level): from (p,d). Jπ: L(p,d)=(1+3) from $1/2^-$. L(^{3}He,d)=(0) suggesting $(1^+,2^+)$ for a group at 3010 *30*, probably a multiplet of 2980+3000+3015+3033 levels.
3000.11 *22*	1#		gH o	XREF: g(3010)o(2990).
3014.81 *22*	1#		gH	XREF: g(3010).
3033 *10*	(2^+)		g N	XREF: g(3010). Jπ: L(p,d)=(1+3) from $1/2^-$.
3057.8? *4*	$(10,11,12^+)$		E	Jπ: possible 619.4γ to (10^+).
3065 *10*	$(0^+,1^+,2^+)$		N	Jπ: L(p,d)=(1) from $1/2^-$.
3078 *10*	(2^+)		N	Jπ: L(p,d)=(1+3) from $1/2^-$.
3078.81 *22*	1#		H	
3100 *10*	(2^+)		N	Jπ: L(p,d)=(1+3) from $1/2^-$ for an unresolved doublet.
3132 *10*	$(0^+,1^+,2^+)$		N	Jπ: L(p,d)=(1) from $1/2^-$.
3141.11 *24*	1#		H	
3170 *10*	(2^+)		N	Jπ: L(p,d)=(1+3) from $1/2^-$.
3198 *10*	(2^+)		N	Jπ: L(p,d)=(1+3) from $1/2^-$.
3225 *10*	$(0^+,1^+,2^+)$		N	Jπ: L(p,d)=(1) from $1/2^-$.
3351.31 *22*	1#		H	
3375.24 *22*	1#		H	
3383.01 *24*	1#		H	
3417.12 *22*	1#		H	
3421.4 *3*	1#		H	
3427.71 *24*	1#		H	
3459.31 *24*	1#		H	
3465.2 *3*	1#		H	
3477.01 *24*	1#		H	
3497.9 *3*	1#		H	
3499.7[c] *13*	(16^+)		E R	XREF: E(3487). Jπ: 657.6γ to (14^+); possible band member.
3545.3 *3*	1#		H	

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Adopted Levels, Gammas (continued)

^{194}Pt Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF		Comments
3697.5 *3*	1[#]	H		
3703.3 *4*	1[#]	H		
3717.02 *24*	1[#]	H		
3726.8 *4*	1[#]	H		
3747.1 *3*	1[#]	H		
3754.7[c] *13*	(18^{+})	E	R	XREF: E(3670). E(level): 3683 from reverse ordering of 183-255 cascade in (^{82}Se,Xγ). J$^{\pi}$: 255.0γ to (16^{+}); possible band member.
3813.62 *24*	1[#]	H		
3890.22 *24*	1[#]	H		
3937.7[c] *14*	(20^{+})	E	R	XREF: E(3925). J$^{\pi}$: 183.0γ to (18^{+}); possible band member.
4529.8 *14*	(22^{+})	E	R	XREF: E(4517). J$^{\pi}$: 592.1γ to (20^{+}); possible band member.
4541.7[c] *17*	(22^{+})		R	J$^{\pi}$: 604γ to (20^{+}); possible band member.
4896.7[c] *20*	(24^{+})		R	J$^{\pi}$: 355γ to (22^{+}); possible band member.
5336.7[c] *22*	(26^{+})		R	J$^{\pi}$: 440γ to (24^{+}); possible band member.

[†] From a least-squares fit to γ-ray energies for levels populated in γ-ray studies. For levels reported in particle transfer reactions only, weighted averages of available values have been taken.

[‡] For levels populated in (α,2nγ) reaction, it is assumed that spin values are generally in ascending order as the excitation energy increases. Above ≈2 MeV excitation energy, the J^{π} values based only on L-transfers are given in parentheses, since the level density is high and identification of individual levels is difficult. The exception to this is J^{π}=3^{-} well defined L=3 transitions (at 2154, 2246, 2543) in (pol p,p′).

[#] From (γ,γ').

[@] Band(A): g.s. band.

[&] Band(B): γ-vibrational band.

[a] Band(C): Negative parity band, odd spin.

[b] Band(D): Negative parity band, even spin.

[c] Band(E): Yrast oblate structure based on $i^{-2}_{13/2}$.

Adopted Levels, Gammas (continued)

γ(^{194}Pt)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. &	δ &	α [a]	Comments
328.473	2+	328.469 *6*	100	0.0	0+	E2		0.0755	B(E2)(W.u.)=49.5 *20* α(K)=0.0488 *7*; α(L)=0.0202 *3*; α(M)=0.00504 *7* α(N)=0.001236 *18*; α(O)=0.000202 *3*; α(P)=4.97×10^{-6} *7* E_γ: weighted average of 328.467 *10* from ^{194}Ir β$^-$ decay (19.18 h), 328.470 *6* from ^{194}Au ε decay (38.02 h), and 328.45 *3* from (n,n′γ). Others: 328.5 *5* from ^{194}Ir β$^-$ decay (171 d), 328.5 *1* from (α,2nγ), and 328.5 *1* from Coulomb excitation.
622.024	2+	293.547 *7*	100.0 *10*	328.473	2+	E2+M1+E0	+15 *2*	0.1060 *16*	B(M1)(W.u.)=8.8×10^{-5} *+45−27*; B(E2)(W.u.)=89 *+12−10* α(K)=0.0654 *10*; α(L)=0.0308 *5*; α(M)=0.00771 *11* α(N)=0.00189 *3*; α(O)=0.000307 *5*; α(P)=6.58×10^{-6} *10* E_γ: weighted average of 293.544 *10* from ^{194}Ir β$^-$ decay (19.18 h) and 293.549 *7* from ^{194}Au ε decay (38.02 h). Others: 293.55 *7* from (α,2nγ), 293.50 *5* from (n,n′γ), and 293.5 *1* from Coulomb excitation. I_γ: from ^{194}Au ε decay (38.02 h). Others: 100.0 *11* from ^{194}Ir β$^-$ decay (19.18 h), 100 *6* from (α,2nγ), 100 *5* from (n,n′γ), and 1.0E2 *5* from muonic atom. δ: for δ(E2/M1), from γγ(θ) in ^{194}Au ε decay. ρ^2(E0)=0.00046 *16* (1999Wo07 evaluation). E0/E2 mixing ratio(q)=−0.17 to +0.24 with penetration parameter (λ)=−170 to +270 (1971Do12). α: for E2.
		622.007 *10*	13.68 *15*	0.0	0+	E2		0.01483	B(E2)(W.u.)=0.286 *+44−35* E_γ: weighted average of 622.003 *20* from ^{194}Ir β$^-$ decay (19.18 h), 622.010 *10* from ^{194}Au ε decay (38.02 h), 621.8 *1* from (α,2nγ), 622.0 *2* from (n,n′γ), and 622.0 *1* from Coulomb excitation. I_γ: weighted average of 13.40 *16* from ^{194}Ir β$^-$ decay (19.18 h), 13.85 *12* from ^{194}Au ε decay (38.02 h), 19 *6* from (α,2nγ), and 12.2 *14* from (n,n′γ).
811.288	4+	482.806 *8*	100	328.473	2+	E2		0.0270	B(E2)(W.u.)=85.1 *+48−44* E_γ: weighted average of 482.823 *13* from ^{194}Ir β$^-$ decay (19.18 h), 482.6 *5* from ^{194}Ir β$^-$ decay (171 d), 482.800 *8* from ^{194}Au ε decay (38.02 h), 482.75 *12* from (α,2nγ), 482.80 *6* from (n,n′γ), and 482.9 *1* from Coulomb excitation.
922.772	3+	111.4 *4*	0.49 *15*	811.288	4+	[M1,E2]		4.0 *9*	α(K)=2.3 *17*; α(L)=1.3 *7*; α(M)=0.32 *17* α(N)=0.08 *4*; α(O)=0.013 *6*; α(P)=0.00026 *20* γ seen in ^{194}Ir β$^-$ only (1976Cl03).
		300.750 *7*	100.0 *10*	622.024	2+	E2(+M1)	>5	0.102 *5*	α(K)=0.064 *4*; α(L)=0.0283 *5*; α(M)=0.00706 *11* α(N)=0.00173 *3*; α(O)=0.000283 *5*; α(P)=6.5×10^{-6} *5* E_γ: from ^{194}Au ε decay (38.02 h). Others: 300.751 *10* from ^{194}Ir β$^-$ decay (19.18 h), 300.74 *8* from (α,2nγ), 300.74 *7* from (n,n′γ),

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Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	Comments
									and 300.6 *1* from Coulomb excitation. I_γ: from ^{194}Au ε decay (38.02 h). Others: 100.0 *11* from ^{194}Ir β$^-$ decay (19.18 h), 100 *7* from (α,2nγ), and 100 *5* from (n,n′γ).
922.772	3$^+$	594.292 *10*	18.63 *14*	328.473	2$^+$	E2(+M1)	>10	0.0166 *3*	E_γ: weighted average of 594.288 *10* from ^{194}Ir β$^-$ decay (19.18 h) and 594.299 *14* from ^{194}Au ε decay (38.02 h). Others: 594.3 *3* from (α,2nγ) and 594.3 *2* from (n,n′γ). I_γ: weighted average of 18.87 *30* from ^{194}Ir β$^-$ decay (19.18 h) and 18.58 *14* from ^{194}Au ε decay (38.02 h). Others: 14 *5* from (α,2nγ) and 11.3 *10* from (n,n′γ). I_γ: 11.3 *9* from (n,n′γ) not used in averaging. δ: >+50 or <−10 (γγ(θ) in ^{194}Ir β$^-$). ce data in ^{194}Au ε decay give 0.8 *+6−4*.
1229.520	4$^+$	418.19 *3*	14.6 *14*	811.288	4$^+$	(E2(+M1))	>3	0.043 *5*	B(M1)(W.u.)=9.2×10^{-4} *+29−92*; B(E2)(W.u.)=18 *+8−4* α(K)=0.031 *4*; α(L)=0.0091 *5*; α(M)=0.00223 *9* α(N)=0.000548 *23*; α(O)=9.2×10^{-5} *5*; α(P)=3.3×10^{-6} *5* E_γ: weighted average of 418.27 *7* from ^{194}Ir β$^-$ decay (19.18 h), 418.195 *23* from ^{194}Au ε decay (38.02 h), 418.2 *3* from (α,2nγ), 417.96 *11* from (n,n′γ), and 418.1 *1* from Coulomb excitation. I_γ: weighted average of 16.2 *22* from ^{194}Ir β$^-$ decay (19.18 h), 14.3 *15* from ^{194}Au ε decay (38.02 h), 14 *4* from (α,2nγ), and 14.4 *14* from (n,n′γ).
		607.498 *10*	100.0 *11*	622.024	2$^+$	E2		0.01565	B(E2)(W.u.)=21.5 *+46−34* E_γ: weighted average of 607.502 *24* from ^{194}Ir β$^-$ decay (19.18 h), 607.496 *10* from ^{194}Au ε decay (38.02 h), 607.5 *2* from (α,2nγ), 607.63 *9* from (n,n′γ), and 607.5 *1* from Coulomb excitation. I_γ: from ^{194}Au ε decay (38.02 h). Others: 100 *19* from ^{194}Ir β$^-$ decay (19.18 h), 100 *20* from (α,2nγ), and 100 *9* from (n,n′γ).
		901.073 *25*	8.6 *11*	328.473	2$^+$	[E2]		0.00674	B(E2)(W.u.)=0.26 *+9−7* E_γ: weighted average of 901.077 *25* from ^{194}Au ε decay (38.02 h) and 901.0 *1* from Coulomb excitation. Others: 900.9 *6* from (α,2nγ) and 901.05 *17* from (n,n′γ). I_γ: unweighted average of 10.7 *4* from ^{194}Au ε decay (38.02 h), 8 *4* from (α,2nγ), and 7.2 *7* from (n,n′γ).
1267.200	0$^+$	645.166 *9*	100.0 *10*	622.024	2$^+$	E2		0.01367	B(E2)(W.u.)=8.2 *+25−16* E_γ: weighted average of 645.169 *10* from ^{194}Ir β$^-$ decay (19.18 h) and 645.164 *9* from ^{194}Au ε decay (38.02 h). Others: 645.16 *10* from (n,n′γ) and 645.2 *1* from Coulomb excitation. I_γ: from ^{194}Ir β$^-$ decay (19.18 h). Others: 100.0 *22* from ^{194}Au ε decay (38.02 h) and 100 *11* from (n,n′γ).
		938.719 *9*	49.9 *7*	328.473	2$^+$	E2		0.00621	B(E2)(W.u.)=0.63 *+20−13* E_γ: weighted average of 938.719 *10* from ^{194}Ir β$^-$ decay (19.18 h),

$^{194}_{78}Pt_{116}$-12

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. &	α [a]	$I_{(\gamma+ce)}$	Comments
									938.720 *9* from ^{194}Au ε decay (38.02 h), and 938.6 *2* from (n,n′γ).
									I_γ: weighted average of 50.7 *15* from ^{194}Ir β^- decay (19.18 h), 49.7 *5* from ^{194}Au ε decay (38.02 h), and 61 *6* from (n,n′γ).
1267.200	0^+	1267.36 *16*		0.0	0^+	E0		0.11 *1*	q^2_K(E0/E2)=0.337 *23*, X(E0/E2)=0.0082 *5*, ρ^2(E0)=0.00019 *10* (2005Ki02,evaluation). Other: ρ^2(E0)=0.00016 *8* (1999Wo07,evaluation).
1373.772	(5^-)	144.5 *2*	1.21 *35*	1229.520	4^+				E_γ,I_γ: γ seen in (α,2nγ) only.
		562.482 *15*	100 *33*	811.288	4^+	(E1)	0.00646		E_γ: weighted average of 562.4 *5* from ^{194}Ir β^- decay (171 d), 562.478 *14* from ^{194}Au ε decay (38.02 h), 562.5 *1* from (α,2nγ), 562.64 *8* from (n,n′γ), and 562.4 *1* from Coulomb excitation.
									I_γ: from (α,2nγ).
1411.83	6^+	600.5 *1*	100	811.288	4^+	E2	0.01607		B(E2)(W.u.)=67 *+30−16*
									E_γ: from (α,2nγ). Others: 600.5 *5* from ^{194}Ir β^- decay (171 d), 600.3 *2* from (n,n′γ), and 600.6 *1* from Coulomb excitation.
									Mult.: from ce data in ^{194}Ir β^- decay (171 d).
1422.21	$(3,4)^+$	499.48 *12*	100 *10*	922.772	3^+				E_γ: weighted average of 499.4 *2* from (α,2nγ), 499.65 *9* from (n,n′γ), and 499.3 *1* from Coulomb excitation.
									I_γ: from (n,n′γ).
		1093.6 *2*	23.4 *24*	328.473	2^+				E_γ: weighted average of 1093.9 *2* from (n,n′γ) and 1093.5 *1* from Coulomb excitation.
									I_γ: from (n,n′γ).
1432.551	3^-	59.2 *4*	0.023 *6*	1373.772	(5^-)	(E2)	50.9 *19*		B(E2)(W.u.)=14 *+7−5*
									α(L)=38.2 *14*; α(M)=9.9 *4*
									α(N)=2.40 *9*; α(O)=0.372 *14*; α(P)=0.000406 *12*
									E_γ,I_γ: from ^{194}Ir β^- decay (19.18 h) only.
		203.04 *3*	16.3 *15*	1229.520	4^+	E1	0.0675		B(E1)(W.u.)=2.09×10^{-5} *+42−37*
									α(K)=0.0555 *8*; α(L)=0.00929 *13*; α(M)=0.00214 *3*
									α(N)=0.000525 *8*; α(O)=9.07×10^{-5} *13*; α(P)=4.85×10^{-6} *7*
									E_γ: weighted average of 203.056 *21* from ^{194}Ir β^- decay (19.18 h), 202.96 *5* from ^{194}Au ε decay (38.02 h), and 202.8 *2* from (n,n′γ).
									I_γ: unweighted average of 18.7 *9* from ^{194}Ir β^- decay (19.18 h), 16.61 *32* from ^{194}Au ε decay (38.02 h), and 13.6 *17* from (n,n′γ).
		621.256 *15*	38.89 *29*	811.288	4^+	E1	0.00527		B(E1)(W.u.)=1.74×10^{-6} *+21−19*
									E_γ: weighted average of 621.295 *36* from ^{194}Ir β^- decay (19.18 h) and 621.250 *14* from ^{194}Au ε decay (38.02 h). Others: 621.8 *1* from (α,2nγ) and 621.4 *2* from (n,n′γ).
									I_γ: from ^{194}Au ε decay (38.02 h). Others: 39 *4* from ^{194}Ir β^- decay (19.18 h), 63 *31* from (α,2nγ), and 37.3 *34* from (n,n′γ).

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Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	α[a]	$I_{(\gamma+ce)}$	Comments
1432.551	3⁻	810.547 *14*	9.7 *12*	622.024	2⁺	E1	0.00313		B(E1)(W.u.)=1.96×10^{-7} *+47−40* E_γ: weighted average of 810.569 *18* from ^{194}Ir β⁻ decay (19.18 h), 810.533 *14* from ^{194}Au ε decay (38.02 h), 811.0 *5* from (α,2nγ), 810.5 *2* from (n,n′γ), and 811 *1* from Coulomb excitation. I_γ: unweighted average of 9.67 *19* from ^{194}Ir β⁻ decay (19.18 h), 8.27 *9* from ^{194}Au ε decay (38.02 h), 13 *6* from (α,2nγ), and 7.8 *9* from (n,n′γ).
		1104.064 *10*	100.0 *9*	328.473	2⁺	E1	1.77×10^{-3}		B(E1)(W.u.)=8.0×10^{-7} *9* E_γ: weighted average of 1104.073 *10* from ^{194}Ir β⁻ decay (19.18 h), 1104.056 *10* from ^{194}Au ε decay (38.02 h), 1104.0 *3* from (α,2nγ), 1104.01 *8* from (n,n′γ), and 1104 *1* from Coulomb excitation. I_γ: from ^{194}Au ε decay (38.02 h). Others: 100.0 *14* from ^{194}Ir β⁻ decay (19.18 h), 100 *16* from (α,2nγ), and 100 *5* from (n,n′γ).
		1432.542 *14*	3.28 *6*	0.0	0⁺	[E3]	0.00566		B(E3)(W.u.)=7.7 *+11−9* E_γ: from ^{194}Au ε decay (38.02 h). Other: 1432.56 *8* from ^{194}Ir β⁻ decay (19.18 h). I_γ: weighted average of 3.33 *14* from ^{194}Ir β⁻ decay (19.18 h) and 3.27 *6* from ^{194}Au ε decay (38.02 h).
1479.272	0⁺	857.234 *18*	0.974 *22*	622.024	2⁺	[E2]	0.00746		E_γ: weighted average of 857.224 *14* from ^{194}Ir β⁻ decay (19.18 h) and 857.265 *24* from ^{194}Au ε decay (38.02 h). I_γ: weighted average of 0.976 *13* from ^{194}Ir β⁻ decay (19.18 h) and 0.69 *17* from ^{194}Au ε decay (38.02 h).
		1150.788 *10*	100.0 *10*	328.473	2⁺	E2	0.00416		E_γ: weighted average of 1150.799 *12* from ^{194}Ir β⁻ decay (19.18 h) and 1150.780 *10* from ^{194}Au ε decay (38.02 h). Other: 1150.8 *2* from (n,n′γ). I_γ: from ^{194}Au ε decay (38.02 h). Other: 100.0 *11* from ^{194}Ir β⁻ decay (19.18 h).
		1479.33 *11*		0.0	0⁺	E0		5.5 *4*	q^2_K(E0/E2)=10.4 *4*, X(E0/E2)=0.410 *16* (2005Ki02 evaluation).
1485.04	(7⁻)	111.4 *2*	100	1373.772	(5⁻)	(E2)	3.15		B(E2)(W.u.)=34.5 *13* α(K)=0.617 *9*; α(L)=1.90 *4*; α(M)=0.492 *8* α(N)=0.1201 *20*; α(O)=0.0187 *3*; α(P)=6.66×10^{-5} *10* E_γ: from (α,2nγ). Other: 111.7 *5* from ^{194}Ir β⁻ decay (171 d). Mult.: deduced from intensity balance in ^{194}Ir β⁻ decay (171 d).
1498.77	(5⁺)	576.0 *2*	100	922.772	3⁺				E_γ: from (α,2nγ).
1512.004	2⁺	244.781 *19*	3.06 *7*	1267.200	0⁺	(E2)	0.184		α(K)=0.1019 *15*; α(L)=0.0623 *9*; α(M)=0.01576 *22*

$^{194}_{78}Pt_{116}$-14

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	Comments
									α(N)=0.00386 *6*; α(O)=0.000620 *9*; α(P)=9.98×10^{-6} *14* E_γ: weighted average of 244.769 *19* from ^{194}Ir β$^-$ decay (19.18 h) and 244.798 *22* from ^{194}Au ε decay (38.02 h). I_γ: weighted average of 2.91 *16* from ^{194}Ir β$^-$ decay (19.18 h) and 3.09 *7* from ^{194}Au ε decay (38.02 h).
1512.004	2$^+$	589.207 *10*	44.3 *8*	922.772	3$^+$	E2+M1	2.2 *+6−4*	0.0226 *23*	E_γ: weighted average of 589.202 *19* from ^{194}Ir β$^-$ decay (19.18 h) and 589.208 *10* from ^{194}Au ε decay (38.02 h). Other: 589.18 *11* from (n,n′γ). I_γ: unweighted average of 45.1 *5* from ^{194}Ir β$^-$ decay (19.18 h) and 43.5 *4* from ^{194}Au ε decay (38.02 h). Other: 34 *4* from (n,n′γ) is discrepant.
		700.680 *16*	8.93 *16*	811.288	4$^+$	E2		0.01140	E_γ: weighted average of 700.687 *20* from ^{194}Ir β$^-$ decay (19.18 h) and 700.675 *16* from ^{194}Au ε decay (38.02 h). Other: 700.5 *2* from (n,n′γ). I_γ: unweighted average of 8.77 *9* from ^{194}Ir β$^-$ decay (19.18 h) and 9.08 *9* from ^{194}Au ε decay (38.02 h). Other: 44 *4* from (n,n′γ) is discrepant.
		889.980 *10*	17.78 *18*	622.024	2$^+$	E2+M1	+0.50 *16*	0.0155 *12*	E_γ: weighted average of 889.986 *10* from ^{194}Ir β$^-$ decay (19.18 h) and 889.969 *14* from ^{194}Au ε decay (38.02 h). Other: 889.90 *15* from (n,n′γ). I_γ: weighted average of 17.67 *18* from ^{194}Ir β$^-$ decay (19.18 h) and 18.08 *30* from ^{194}Au ε decay (38.02 h). Other: 29.3 *29* from (n,n′γ) is discrepant. δ: from ce and γγ(θ) in ^{194}Au ε decay (38.02 h). Other: +1.51 *40* from γ(θ) in ^{194}Ir β$^-$ decay (19.18 h).
		1183.537 *10*	100.0 *9*	328.473	2$^+$	M1+E2	+1.09 *+18−16*	0.0061 *4*	E_γ: weighted average of 1183.539 *10* from ^{194}Ir β$^-$ decay (19.18 h) and 1183.535 *10* from ^{194}Au ε decay (38.02 h). Other: 1183.60 *12* from (n,n′γ). I_γ: from ^{194}Ir β$^-$ decay (19.18 h). Others: 100.0 *10* from ^{194}Au ε decay (38.02 h) and 100 *7* from (n,n′γ). δ: unweighted average of +1.32 *9* (1983Ri14) and +0.9 *1* (1973Si22) from γ(θ) in ^{194}Ir β$^-$ decay (19.18 h) and +1.09 *+18−16* from ce and γγ(θ) in ^{194}Au ε decay (38.02 h).
		1512.071# *14*	7.5 *10*	0.0	0$^+$	(E2)		0.00255	E_γ: weighted average of 1511.98 *10* from ^{194}Ir β$^-$ decay (19.18 h) and 1512.073 *14* from ^{194}Au ε decay (38.02 h). I_γ: weighted average of 7.9 *10* from ^{194}Ir β$^-$ decay (19.18 h) and 6.7 *15* from ^{194}Au ε decay (38.02 h). Level-energy difference=1512.998.
1547.281	0$^+$	925.260 *14*	25.5 *6*	622.024	2$^+$	E2		0.00639	B(E2)(W.u.)=14.4 *+10−12* E_γ: weighted average of 925.269 *14* from ^{194}Ir β$^-$ decay

$^{194}_{78}Pt_{116}$-15

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	$I_{(\gamma+ce)}$	Comments
										(19.18 h) and 925.251 *14* from ^{194}Au ε decay (38.02 h). Others: 925.5 *3* from (n,n′γ) and 925.3 *1* from Coulomb excitation.
										I_γ: unweighted average of 24.94 *23* from ^{194}Ir β^- decay (19.18 h) and 26.12 *26* from ^{194}Au ε decay (38.02 h). Other: 48 *4* from (n,n′γ) is discrepant.
1547.281	0^+	1218.802 *10*	100.0 *9*	328.473	2^+	E2		0.00373		B(E2)(W.u.)=14.3 *+10−11*
										E_γ: weighted average of 1218.813 *10* from ^{194}Ir β^- decay (19.18 h), 1218.791 *10* from ^{194}Au ε decay (38.02 h), 1218.75 *13* from (n,n′γ), and 1218.8 *1* from Coulomb excitation.
										I_γ: from ^{194}Ir β^- decay (19.18 h). Others: 100.0 *10* from ^{194}Au ε decay (38.02 h) and 100 *10* from (n,n′γ).
		1547.9 *4*		0.0	0^+	E0			0.23 *2*	E_γ,Mult.: transition seen only in ce data in ^{194}Au ε decay (38.02 h).
										q^2_K(E0/E2)=0.53 *4*, X(E0/E2)=0.0238 *18*, ρ^2(E0)=0.010 *4* (2005Ki02,evaluation). Other: ρ^2(E0)=0.011 *4* (1999Wo07, evaluation).
1592.8	(5^+)	670.0 *3*	100	922.772	3^+					E_γ: from (α,2nγ) only.
1622.197	2^+	699.29@ *4*	8.0 *4*	922.772	3^+	[M1,E2]		0.022 *11*		E_γ: unweighted average of 699.332 *29* from ^{194}Ir β^- decay (19.18 h) and 699.257 *18* from ^{194}Au ε decay (38.02 h).
										I_γ: unweighted average of 7.60 *25* from ^{194}Ir β^- decay (19.18 h) and 8.43 *23* from ^{194}Au ε decay (38.02 h).
		1000.178 *10*	84 *8*	622.024	2^+	M1+E2	1.38 *+13−12*	0.0081 *4*		E_γ: weighted average of 1000.173 *10* from ^{194}Ir β^- decay (19.18 h) and 1000.190 *15* from ^{194}Au ε decay (38.02 h). Other: 999.99 *14* from (n,n′γ).
										I_γ: unweighted average of 76.2 *9* from ^{194}Ir β^- decay (19.18 h), 99 *7* from ^{194}Au ε decay (38.02 h), and 76 *8* from (n,n′γ).
		1293.716 *14*	79 *6*	328.473	2^+	E2+M1+E0	−0.9 *1*	0.0192 *8*		E_γ: weighted average of 1293.723 *14* from ^{194}Ir β^- decay (19.18 h) and 1293.708 *14* from ^{194}Au ε decay (38.02 h). Other: 1293.5 *2* from (n,n′γ).
										I_γ: unweighted average of 71.4 *6* from ^{194}Ir β^- decay (19.18 h), 73.7 *7* from ^{194}Au ε decay (38.02 h), and 91 *10* from (n,n′γ).
										δ: E2/M1 ratio from γγ(θ) in ^{194}Ir β^- decay (19.18 h).
										α: from ^{194}Au ε decay.
		1622.185 *14*	100.0 *10*	0.0	0^+	E2		0.00229		E_γ: from ^{194}Ir β^- decay (19.18 h). Others: 1622.185 *14* from ^{194}Au ε decay (38.02 h) and

$^{194}_{78}Pt_{116}$-16

Adopted Levels, Gammas (continued)

$\gamma(^{194}Pt)$ (continued)

E_i(level)	J^π_i	E_γ [†]	I_γ [†]	E_f	J^π_f	Mult. [&]	δ [&]	α [a]	$I_{(\gamma+ce)}$	Comments
										1622.4 *3* from (n,n′γ).

$^{194}_{78}Pt_{116}$-17

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[&]	δ[&]	α[a]	Comments
									I_γ: from ^{194}Au ε decay (38.02 h). Others: 100.0 *11* from ^{194}Ir β$^-$ decay (19.18 h) and 100 *10* from (n,n′γ).
1670.667	2$^+$	747.88[c] *4*	0.321 *19*	922.772	3$^+$	[M1,E2]		0.019 *9*	E_γ,I_γ: from ^{194}Au ε decay (38.02 h) only.
		859.382 *24*	4.44 *6*	811.288	4$^+$	(E2)		0.00742	E_γ: weighted average of 859.396 *25* from ^{194}Ir β$^-$ decay (19.18 h) and 859.370 *24* from ^{194}Au ε decay (38.02 h). I_γ: from ^{194}Au ε decay (38.02 h). Other: 4.38 *20* from ^{194}Ir β$^-$ decay (19.18 h).
		1048.640 *10*	66.4 *7*	622.024	2$^+$	M1		0.01161	E_γ: weighted average of 1048.655 *14* from ^{194}Ir β$^-$ decay (19.18 h), 1048.633 *10* from ^{194}Au ε decay (38.02 h), and 1048.55 *13* from (n,n′γ). I_γ: weighted average of 66.4 *7* from ^{194}Ir β$^-$ decay (19.18 h) and 66.4 *7* from ^{194}Au ε decay (38.02 h). Other: 93 *9* from (n,n′γ).
		1342.187 *12*	100.0 *10*	328.473	2$^+$	M1+E2	−0.23 *9*	0.00612 *16*	E_γ: weighted average of 1342.204 *10* from ^{194}Ir β$^-$ decay (19.18 h), 1342.170 *10* from ^{194}Au ε decay (38.02 h), and 1342.12 *14* from (n,n′γ). I_γ: from ^{194}Ir β$^-$ decay (19.18 h). Others: 100.0 *19* from ^{194}Au ε decay (38.02 h) and 100 *10* from (n,n′γ).
		1670.672 *14*	14.4 *4*	0.0	0$^+$	(E2)		0.00219	E_γ: weighted average of 1670.680 *16* from ^{194}Ir β$^-$ decay (19.18 h) and 1670.665 *14* from ^{194}Au ε decay (38.02 h). I_γ: unweighted average of 14.87 *13* from ^{194}Ir β$^-$ decay (19.18 h) and 14.00 *14* from ^{194}Au ε decay (38.02 h).
1737.427	(3$^-$)	304.886 *17*	100.0 *21*	1432.551	3$^-$	[M1,E2]		0.19 *10*	α(K)=0.15 *10*; α(L)=0.033 *7*; α(M)=0.0079 *13* α(N)=0.0019 *3*; α(O)=0.00034 *7*; α(P)=1.7×10^{-5} *11*
		363.10[@] *18*	34 *8*	1373.772	(5$^-$)	[E2]		0.0569	α(K)=0.0383 *6*; α(L)=0.01413 *20*; α(M)=0.00350 *5* α(N)=0.000859 *13*; α(O)=0.0001418 *20*; α(P)=3.94×10^{-6} *6*
		814.59 *6*	34.8 *21*	922.772	3$^+$	[E1]		0.00310	
1778.578	2$^+$	345.984[c] *20*	1.03 *5*	1432.551	3$^-$	[E1]		0.0187	
		855.823 *17*	14.09 *14*	922.772	3$^+$	(M1+E2)	0.53 +*22*−*24*	0.0168 *17*	α(K)=0.0139 *15*; α(L)=0.00224 *20*; α(M)=0.00052 *5* α(N)=0.000128 *12*; α(O)=2.30×10^{-5} *21*; α(P)=1.54×10^{-6} *17*
		1156.542 *16*	100.0 *10*	622.024	2$^+$	M1(+E2)	<0.2	0.00898 *16*	E_γ: weighted average of 1156.48 *4* from ^{194}Ir β$^-$

$^{194}_{78}Pt_{116}$-18

Adopted Levels, Gammas (continued)

$\gamma(^{194}Pt)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α^a	Comments
									decay (19.18 h), 1156.550 *14* from ^{194}Au ε decay (38.02 h), and 1156.5 *2* from (n,n′γ).
									I_γ: from ^{194}Au ε decay (38.02 h). Others: 100 *4* from ^{194}Ir β^- decay (19.18 h) and 100 *10* from (n,n′γ).
1778.578	2^+	1450.25 *13*	71 *7*	328.473	2^+	M1+E2	−0.27 *10*	0.00506 *15*	α(K)=0.00414 *13*; α(L)=0.000645 *19*; α(M)=0.000148 *5* α(N)=3.66×10^{-5} *11*; α(O)=6.61×10^{-6} *19*; α(P)=4.55×10^{-7} *14*; α(IPF)=7.69×10^{-5} *18*
									E_γ: unweighted average of 1450.137 *14* from ^{194}Ir β^- decay (19.18 h), 1450.098 *14* from ^{194}Au ε decay (38.02 h), and 1450.5 *2* from (n,n′γ).
									I_γ: unweighted average of 61.6 *24* from ^{194}Ir β^- decay (19.18 h), 68.6 *7* from ^{194}Au ε decay (38.02 h), and 84 *9* from (n,n′γ).
		1778.39 *14*	8.3 *3*	0.0	0^+	(E2)		0.00201	E_γ: unweighted average of 1778.25 *14* from ^{194}Ir β^- decay (19.18 h) and 1778.532 *20* from ^{194}Au ε decay (38.02 h).
									I_γ: weighted average of 9.2 *8* from ^{194}Ir β^- decay (19.18 h) and 8.19 *27* from ^{194}Au ε decay (38.02 h).
1783.52	(6^-)	409.75 *10*	100	1373.772	(5^-)	M1+E2	+0.4 *1*	0.119 *6*	α(K)=0.098 *6*; α(L)=0.0165 *6*; α(M)=0.00383 *13* α(N)=0.00095 *3*; α(O)=0.000169 *6*; α(P)=1.10×10^{-5} *6*
									E_γ: weighted average of 409.8 *1* from (α,2nγ) and 409.69 *10* from (n,n′γ).
									Mult.,δ: from $\gamma(\theta)$ and ce data in (α,2nγ).
1797.390	1^-	250.102 *17*	0.549 *7*	1547.281	0^+	E1		0.0404	α(K)=0.0333 *5*; α(L)=0.00546 *8*; α(M)=0.001258 *18* α(N)=0.000308 *5*; α(O)=5.36×10^{-5} *8*; α(P)=2.98×10^{-6} *5*
		318.122 *10*	3.189 *28*	1479.272	0^+	E1		0.0227	
		364.840 *6*	23.51 *23*	1432.551	3^-	E2		0.0562	α(K)=0.0378 *6*; α(L)=0.01390 *20*; α(M)=0.00344 *5* α(N)=0.000844 *12*; α(O)=0.0001394 *20*; α(P)=3.90×10^{-6} *6*
									E_γ: weighted average of 364.852 *10* from ^{194}Ir β^- decay (19.18 h), 364.836 *6* from ^{194}Au ε decay (38.02 h), and 364.8 *2* from (n,n′γ).
									I_γ: weighted average of 23.45 *28* from ^{194}Ir β^- decay (19.18 h) and 23.55 *23* from ^{194}Au ε decay (38.02 h). Other: 69 *7* from (n,n′γ) is discrepant.
		530.177 *10*	9.10 *7*	1267.200	0^+	E1		0.00730	E_γ: weighted average of 530.184 *14* from ^{194}Ir β^- decay (19.18 h) and 530.173 *10* from ^{194}Au ε decay (38.02 h).
									I_γ: weighted average of 9.16 *7* from ^{194}Ir β^- decay (19.18 h) and 9.03 *8* from ^{194}Au ε decay (38.02 h).
		1175.369 *10*	31.6 *3*	622.024	2^+	E1		1.60×10^{-3}	E_γ: weighted average of 1175.377 *10* from ^{194}Ir β^-

$^{194}_{78}Pt_{116}$-19

Adopted Levels, Gammas (continued)

$\gamma(^{194}Pt)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	$I_{(\gamma+ce)}$	Comments
										decay (19.18 h), 1175.360 *10* from ^{194}Au ε decay (38.02 h), and 1175.4 *2* from (n,n′γ). I_γ: weighted average of 31.69 *28* from ^{194}Ir β^- decay (19.18 h), 31.52 *28* from ^{194}Au ε decay (38.02 h), and 25.9 *24* from (n,n′γ).
1797.390	1⁻	1468.907 *10*	100.0 *7*	328.473	2⁺	E1		1.23×10^{-3}		E_γ: weighted average of 1468.910 *10* from ^{194}Ir β^- decay (19.18 h) and 1468.904 *10* from ^{194}Au ε decay (38.02 h). Other: 1468.99 *12* from (n,n′γ). I_γ: from ^{194}Ir β^- decay (19.18 h). Others: 100.0 *10* from ^{194}Au ε decay (38.02 h) and 100 *11* from (n,n′γ).
		1797.406 *14*	8.93 *24*	0.0	0⁺	E1		1.16×10^{-3}		E_γ: weighted average of 1797.408 *14* from ^{194}Ir β^- decay (19.18 h) and 1797.404 *14* from ^{194}Au ε decay (38.02 h). I_γ: unweighted average of 9.16 *7* from ^{194}Ir β^- decay (19.18 h) and 8.69 *8* from ^{194}Au ε decay (38.02 h).
1802.646?	1⁺,2⁺	1802.637[b] *14*	100[b]	0.0	0⁺	M1,E2		0.0026 *7*		
1816.591	(2)⁺	304.8[c] *3*	159 *15*	1512.004	2⁺					E_γ,I_γ: reported in (n,n′γ) only.
		894.29 *22*	85 *17*	922.772	3⁺	(M1+E2)	1.1 *+8−4*	0.0116 *25*		E_γ: unweighted average of 894.07 *18* from ^{194}Au ε decay (38.02 h) and 894.51 *13* from (n,n′γ). I_γ: from ^{194}Au ε decay (38.02 h). Other: 113 *11* from (n,n′γ).
		1005.292[c] *13*	46.1 *7*	811.288	4⁺					
		1194.530 *19*	100 *15*	622.024	2⁺	(E2)		0.00388		E_γ: weighted average of 1194.529 *14* from ^{194}Au ε decay (38.02 h) and 1194.8 *2* from (n,n′γ). I_γ: from ^{194}Au ε decay (38.02 h). Other: 100 *11* from (n,n′γ).
		1488.94[#] *15*	31.9 *19*	328.473	2⁺					E_γ: weighted average of 1489.01 *9* from ^{194}Au ε decay (38.02 h) and 1488.6 *2* from (n,n′γ). I_γ: from ^{194}Au ε decay (38.02 h). Other: 217 *28* from (n,n′γ). Level-energy difference=1488.112.
		1816.33 *17*	<3.4	0.0	0⁺					
1888.35	(2,3,4)	455.80 *9*	100	1432.551	3⁻					E_γ: from (n,n′γ). Mult.: γ(θ) does not allow ΔJ=2.

$^{194}_{78}Pt_{116}$-20

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	$I_{(\gamma+ce)}$	Comments
1893.588	0^+	1565.118 *14*	100 *4*	328.473	2^+					E_γ: weighted average of 1565.116 *14* from ^{194}Ir β^- decay (19.18 h) and 1565.20 *8* from ^{194}Au ε decay (38.02 h).
		1893.1[c] *4*		0.0	0^+	(E0)			1.2 *3*	E_γ,Mult.: from ce data only in ^{194}Au ε decay.
1924.285	1^+	126.82[c] *4*	0.281 *25*	1797.390	1^-	[E1]		0.222		α(K)=0.181 *3*; α(L)=0.0322 *5*; α(M)=0.00747 *11* α(N)=0.00182 *3*; α(O)=0.000309 *5*; α(P)=1.478×10^{-5} *21*
		253.61 *7*	0.159 *18*	1670.667	2^+	M1(+E2)	<1.4	0.38 *11*		α(K)=0.30 *11*; α(L)=0.062 *4*; α(M)=0.0146 *6* α(N)=0.00360 *14*; α(O)=0.00063 *5*; α(P)=3.3×10^{-5} *12*
		412.288 *17*	0.893 *12*	1512.004	2^+	(M1+E2)	0.9 +*8*−*5*	0.09 *3*		α(K)=0.072 *25*; α(L)=0.014 *3*; α(M)=0.0032 *6* α(N)=0.00079 *14*; α(O)=0.00014 *3*; α(P)=8.E−6 *3*
		1001.481[c] *28*	0.590 *22*	922.772	3^+	[E2]		0.00546		
		1302.255 *14*	13.30 *12*	622.024	2^+	(M1+E2)	0.56 +*22*−*23*	0.0059 *5*		
		1595.806 *14*	90 *3*	328.473	2^+	M1+E2	−0.071 *21*	0.00420		E_γ: weighted average of 1595.802 *23* from ^{194}Ir β^- decay (19.18 h) and 1595.807 *14* from ^{194}Au ε decay (38.02 h). Other: 1595.6 *2* from (n,n′γ). I_γ: unweighted average of 84.5 *13* from ^{194}Ir β^- decay (19.18 h), 91.7 *9* from ^{194}Au ε decay (38.02 h), and 93 *10* from (n,n′γ).
		1924.289 *25*	100.0 *15*	0.0	0^+	M1		0.00290		E_γ: weighted average of 1924.327 *28* from ^{194}Ir β^- decay (19.18 h), 1924.273 *20* from ^{194}Au ε decay (38.02 h), and 1924.0 *2* from (n,n′γ). I_γ: from ^{194}Au ε decay (38.02 h). Others: 100.0 *19* from ^{194}Ir β^- decay (19.18 h) and 100 *10* from (n,n′γ).
1925.85	(6^+)	514.0 *1*	6 *4*	1411.83	6^+					Branching ratio for 514γ, 696γ and 1114γ deduced from $T_{1/2}$(1926 level) and B(E2) values from 1996Wu07 in Coulomb excitation.
		696.4 *1*	100 *20*	1229.520	4^+					
		1114.5 *1*	12 *4*	811.288	4^+					
1930.368	2^+	308.17[c] *4*	1.59 *13*	1622.197	2^+					
		1007.582 *14*	25.9 *4*	922.772	3^+	(M1+E2)	1.1 +*5*−*3*	0.0088 *13*		E_γ: from ^{194}Au ε decay (38.02 h). Others: 1007.55 *7* from ^{194}Ir β^- decay (19.18 h) and 1007.57 *9* from (n,n′γ). I_γ: weighted average of 27.7 *32* from ^{194}Ir β^- decay (19.18 h) and 25.89 *34* from ^{194}Au ε decay (38.02 h). Other: 149 *15* from (n,n′γ).

$^{194}_{78}Pt_{116}$-21

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	Comments
1930.368	2+	1119.117 *22*	27.7 *5*	811.288	4+	[E2]		0.00439	E_γ: weighted average of 1119.118 *16* from ^{194}Au ε decay (38.02 h) and 1118.7 *3* from (n,n′γ). I_γ: weighted average of 27.6 *5* from ^{194}Au ε decay (38.02 h) and 30.1 *32* from (n,n′γ). Mult.: D+Q suggested in ce data (^{194}Au ε decay) is inconsistent with ΔJ=2 from level scheme.
		1308.328 *14*	62.2 *5*	622.024	2+	(M1+E2)	1.7 +*11*−*5*	0.0042 *6*	E_γ: weighted average of 1308.304 *40* from ^{194}Ir β^- decay (19.18 h) and 1308.331 *14* from ^{194}Au ε decay (38.02 h). Other: 1308.3 *2* from (n,n′γ). I_γ: weighted average of 62.9 *19* from ^{194}Ir β^- decay (19.18 h), and 62.2 *5* from ^{194}Au ε decay (38.02 h). Other: 122 *14* in (n,n′γ).
		1601.913 *20*	100.0 *11*	328.473	2+	M1(+E2)	<−0.2	0.00414 *7*	E_γ: weighted average of 1601.947 *17* from ^{194}Ir β^- decay (19.18 h), 1601.891 *14* from ^{194}Au ε decay (38.02 h), and 1601.8 *2* from (n,n′γ). I_γ: from ^{194}Au ε decay (38.02 h). Others: 100.0 *19* from ^{194}Ir β^- decay (19.18 h), 100 *11* from (n,n′γ).
		1930.35 *9*	0.70 *18*	0.0	0+	[E2]		0.00182	
1961.332	2−	144.742[c] *15*	0.60 *4*	1816.591	(2)+	[E1]		0.1589	α(K)=0.1295 *19*; α(L)=0.0226 *4*; α(M)=0.00524 *8* α(N)=0.001277 *18*; α(O)=0.000218 *3*; α(P)=1.079×10^{-5} *16*
		163.951 *24*	7.22 *18*	1797.390	1−	M1+E2	0.50 +*7*−*8*	1.45 *5*	α(K)=1.13 *6*; α(L)=0.244 *7*; α(M)=0.0582 *20* α(N)=0.0143 *5*; α(O)=0.00249 *7*; α(P)=0.000128 *7*
		223.911 *21*	1.92 *4*	1737.427	(3−)	(M1+E2)	1.7 +*14*−*5*	0.36 *8*	α(K)=0.24 *7*; α(L)=0.0901 *14*; α(M)=0.0223 *4* α(N)=0.00548 *9*; α(O)=0.000904 *17*; α(P)=2.6×10^{-5} *9*
		290.688 *14*	11.48 *18*	1670.667	2+	E1		0.0281	α(K)=0.0232 *4*; α(L)=0.00375 *6*; α(M)=0.000864 *12* α(N)=0.000212 *3*; α(O)=3.70×10^{-5} *6*; α(P)=2.12×10^{-6} *3*
		339.01 *13*	0.592 *21*	1622.197	2+	[E1]		0.0196	
		449.317 *12*	8.56 *7*	1512.004	2+	(E1)		0.01040	
		528.773 *9*	100.0 *11*	1432.551	3−	M1+E2	−1.68 +*8*−*7*	0.0336 *10*	α(K)=0.0265 *9*; α(L)=0.00542 *12*; α(M)=0.00128 *3* α(N)=0.000317 *7*; α(O)=5.51×10^{-5} *13*; α(P)=2.89×10^{-6} *10* E_γ: weighted average of 528.773 *8* from ^{194}Au ε decay (38.02 h) and 529.0 *2* from (n,n′γ).
		1038.567 *14*	17.57 *18*	922.772	3+	E1		0.00198	
		1339.251[@] *14*	12.68 *14*	622.024	2+	E1		1.34×10^{-3}	
		1632.847 *16*	15.07 *18*	328.473	2+	E1		1.17×10^{-3}	

$^{194}_{78}Pt_{116}$-22

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	Comments
1984.4	(6,7,8$^+$)	572.6 *3*	100	1411.83	6$^+$				E_γ: from (α,2nγ) only.
1991.69	(7$^-$)	506.7 *2*	100 *14*	1485.04	(7$^-$)	M1,E2		0.05 *3*	α(K)=0.040 *23*; α(L)=0.007 *3*; α(M)=0.0017 *6* α(N)=0.00043 *15*; α(O)=8.E−5 *3*; α(P)=4.E−6 *3* Mult.: from ce and γ(θ) in (α,2nγ).
		617.8 *3*	17 *6*	1373.772	(5$^-$)				
1999.8	(8$^-$)	514.8 *2*	100	1485.04	(7$^-$)	M1+E2	+0.5 *1*	0.062 *4*	α(K)=0.051 *3*; α(L)=0.0086 *4*; α(M)=0.00199 *8* α(N)=0.000492 *20*; α(O)=8.8×10^{-5} *4*; α(P)=5.7×10^{-6} *4* Mult.,δ: from ce and γ(θ) data in (α,2nγ).
2003.659	(2$^+$)	1080.90 *11*	16.5 *14*	922.772	3$^+$	(M1(+E2))	<0.4	0.0103 *5*	
		1675.174 *18*	100.0 *7*	328.473	2$^+$	(M1)		0.00379	E_γ: weighted average of 1675.147 *24* from ^{194}Ir β$^-$ decay (19.18 h), 1675.188 *18* from ^{194}Au ε decay (38.02 h), and 1675.27 *15* from (n,n′γ).
		2003.651 *19*	8.6 *4*	0.0	0$^+$	[E2]		1.75×10^{-3}	
2043.718	1$^+$	227.05[c] *11*	0.094 *10*	1816.591	(2)$^+$	[M1,E2]		0.45 *21*	α(K)=0.33 *21*; α(L)=0.087 *3*; α(M)=0.0210 *6* α(N)=0.00516 *11*; α(O)=0.00088 *4*; α(P)=3.7×10^{-5} *25*
		265.091[c] *27*	0.140 *7*	1778.578	2$^+$	[M1,E2]		0.29 *15*	α(K)=0.22 *14*; α(L)=0.052 *7*; α(M)=0.0124 *10* α(N)=0.0031 *3*; α(O)=0.00052 *7*; α(P)=2.4×10^{-5} *16*
		373.11 *4*	0.175 *9*	1670.667	2$^+$	[M1,E2]		0.11 *6*	α(K)=0.09 *6*; α(L)=0.018 *5*; α(M)=0.0042 *11* α(N)=0.0010 *3*; α(O)=0.00018 *6*; α(P)=1.0×10^{-5} *6*
		421.59 *6*	0.740 *14*	1622.197	2$^+$	[M1,E2]		0.08 *5*	α(K)=0.06 *4*; α(L)=0.012 *4*; α(M)=0.0029 *9* α(N)=0.00072 *21*; α(O)=0.00013 *5*; α(P)=7.E−6 *5*
		531.702[c] *15*	0.645 *14*	1512.004	2$^+$	[M1,E2]		0.044 *23*	α(K)=0.035 *20*; α(L)=0.0065 *24*; α(M)=0.0015 *6* α(N)=0.00037 *13*; α(O)=6.6×10^{-5} *25*; α(P)=3.9×10^{-6} *23*
		564.444[c] *7*	0.492 *5*	1479.272	0$^+$	[M1]		0.0568	α(K)=0.0470 *7*; α(L)=0.00753 *11*; α(M)=0.001734 *25* α(N)=0.000429 *6*; α(O)=7.73×10^{-5} *11*; α(P)=5.26×10^{-6} *8*
		776.70[@] *6*	0.069 *7*	1267.200	0$^+$	[M1]		0.0249	α(K)=0.0206 *3*; α(L)=0.00327 *5*; α(M)=0.000753 *11* α(N)=0.000186 *3*; α(O)=3.36×10^{-5} *5*; α(P)=2.30×10^{-6} *4*
		1120.961 *17*	0.950 *17*	922.772	3$^+$	[E2]		0.00438	
		1421.683 *14*	9.0 *7*	622.024	2$^+$	M1(+E2)	<0.2	0.00542 *10*	E_γ: weighted average of 1421.72 *4* from ^{194}Ir β$^-$ decay (19.18 h) and 1421.679 *14* from

$^{194}_{78}Pt_{116}$-23

Adopted Levels, Gammas (continued)

$\gamma(^{194}Pt)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	$I_{(\gamma+ce)}$	Comments
										^{194}Au ε decay (38.02 h).
										I_γ: unweighted average of 8.3 *4* from ^{194}Ir β^- decay (19.18 h) and 9.75 *9* from ^{194}Au ε decay (38.02 h).
2043.718	1^+	1715.237 *16*	19.82 *24*	328.473	2^+	E2+M1	−1.10 *12*	0.00279 *10*		E_γ: weighted average of 1715.243 *25* from ^{194}Ir β^- decay (19.18 h) and 1715.235 *16* from ^{194}Au ε decay (38.02 h). Other: 1715.2 *2* from (n,n′γ).
										I_γ: weighted average of 20.0 *4* from ^{194}Ir β^- decay (19.18 h) and 19.75 *24* from ^{194}Au ε decay (38.02 h). Other: 49 *5* from (n,n′γ) is discrepant.
		2043.723 *15*	100.0 *7*	0.0	0^+	M1		0.00263		E_γ: weighted average of 2043.727 *17* from ^{194}Ir β^- decay (19.18 h) and 2043.719 *15* from ^{194}Au ε decay (38.02 h). Other: 2043.5 *2* from (n,n′γ).
										I_γ: from ^{194}Au ε decay (38.02 h). Others: 100.0 *9* from ^{194}Ir β^- decay (19.18 h) and 100 *10* from (n,n′γ).
2047.52	(9^-)	562.5 *1*	100	1485.04	(7^-)	(E2)		0.0187		E_γ: from (α,2nγ). Other: 562.4 *5* from ^{194}Ir β^- decay (171 d).
										Mult.: from ce data in ^{194}Ir β^- decay (171 d).
2053.018	$(2)^+$	1241.93[c] *7*	10.8 *9*	811.288	4^+	[E2]		0.00361		
		1430.992 *22*	100.0 *9*	622.024	2^+	[M1,E2]		0.0041 *13*		E_γ: weighted average of 1430.95 *4* from ^{194}Ir β^- decay (19.18 h), 1430.996 *14* from ^{194}Au ε decay (38.02 h), and 1431.6 *3* from (n,n′γ).
										I_γ: from ^{194}Au ε decay (38.02 h). Other: 100 *11* from ^{194}Ir β^- decay (19.18 h).
		1724.53 *3*	77.7 *8*	328.473	2^+	[M1,E2]		0.0028 *8*		E_γ: weighted average of 1724.535 *27* from ^{194}Ir β^- decay (19.18 h) and 1724.40 *14* from ^{194}Au ε decay (38.02 h).
										I_γ: from ^{194}Au ε decay (38.02 h). Other: 79 *5* from ^{194}Ir β^- decay (19.18 h).
2063.746	2^+	1140.990 *20*	6.51 *11*	922.772	3^+	M1		0.00939		
		1441.714 *14*	54.0 *7*	622.024	2^+	M1(+E2)	<0.6	0.0050 *4*		E_γ: weighted average of 1441.733 *19* from ^{194}Ir β^- decay (19.18 h) and 1441.703 *14* from ^{194}Au ε decay (38.02 h). Other: 1441.6 *3* from (n,n′γ).
										I_γ: weighted average of 55.2 *14* from ^{194}Ir β^- decay (19.18 h), 53.7 *6* from ^{194}Au ε decay (38.02 h), and 62 *6* from (n,n′γ).
		1735.253 *14*	100.0 *11*	328.473	2^+	M1+E2	+0.12 *6*	0.00351 *6*		E_γ: weighted average of 1735.272 *21* from ^{194}Ir β^- decay (19.18 h) and 1735.245 *14* from ^{194}Au ε decay (38.02 h). Other: 1735.2 *2* from (n,n′γ).
										I_γ: from ^{194}Au ε decay (38.02 h). Others: 100.0 *18*

$^{194}_{78}Pt_{116}$-24

Adopted Levels, Gammas (continued)

$\gamma(^{194}Pt)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	$I_{(\gamma+ce)}$	Comments
										from ^{194}Ir β^- decay (19.18 h) and 100 *11* from (n,n′γ).
2063.746	2^+	2063.764 *21*	1.92 *9*	0.0	0^+	[E2]		1.70×10^{-3}		
2085.475	0^+	288.13[c] *4*	2.31 *7*	1797.390	1^-	[E1]		0.0287		α(K)=0.0237 *4*; α(L)=0.00384 *6*; α(M)=0.000883 *13* α(N)=0.000217 *3*; α(O)=3.78×10^{-5} *6*; α(P)=2.16×10^{-6} *3*
		1463.439 *14*	100.0 *10*	622.024	2^+	(E2)		0.00270		E_γ: weighted average of 1463.445 *14* from ^{194}Ir β^- decay (19.18 h) and 1463.434 *14* from ^{194}Au ε decay (38.02 h). I_γ: from ^{194}Au ε decay (38.02 h). Other: 100.0 *11* from ^{194}Ir β^- decay (19.18 h).
		1756.995 *14*	8.65 *11*	328.473	2^+	(E2)		0.00204		E_γ: weighted average of 1756.93 *7* from ^{194}Ir β^- decay (19.18 h) and 1756.998 *14* from ^{194}Au ε decay (38.02 h). I_γ: weighted average of 8.1 *4* from ^{194}Ir β^- decay (19.18 h) and 8.67 *8* from ^{194}Au ε decay (38.02 h).
		2085.8 *4*		0.0	0^+	E0			0.57 *4*	E_γ,Mult.: seen only in ce data in ^{194}Au ε decay (38.02 h). q^2_K(E0/E2)=61 *21*, X(E0/E2)=6.1 *21* (2005Ki02,evaluation).
2099.55	$(8)^+$	687.7 *1*	100	1411.83	6^+	(E2)		0.01188		B(E2)(W.u.)=50 *+18−11* E_γ: from (α,2nγ) and Coulomb excitation. Others: 687.8 *5* from ^{194}Ir β^- decay (171 d). Mult.: from ce data in ^{194}Ir β^- decay (171 d) and γ(θ) in (α,2nγ) with ΔJ=(2).
2109.068	$(2)^+$	1186.37 *4*	55.7 *9*	922.772	3^+	(E2+M1)	1.1 *+6−4*	0.0060 *10*		E_γ: unweighted average of 1186.408 *26* from ^{194}Ir β^- decay (19.18 h) and 1186.325 *19* from ^{194}Au ε decay (38.02 h). I_γ: weighted average of 56.4 *9* from ^{194}Ir β^- decay (19.18 h) and 54.8 *10* from ^{194}Au ε decay (38.02 h).
		1487.080 *22*	100.0 *8*	622.024	2^+	(M1(+E2))	<0.3	0.00483 *12*		E_γ: unweighted average of 1487.058 *14* from ^{194}Ir β^- decay (19.18 h) and 1487.102 *16* from ^{194}Au ε decay (38.02 h). I_γ: from ^{194}Ir β^- decay (19.18 h). Other: 100.0 *10* from ^{194}Au ε decay (38.02 h).
		1780.560 *18*	25.1 *10*	328.473	2^+					E_γ: weighted average of 1780.571 *18* from ^{194}Ir β^- decay (19.18 h) and 1780.543

$^{194}_{78}Pt_{116}$-25

Adopted Levels, Gammas (continued)

$\gamma(^{194}Pt)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α^a	$I_{(\gamma+ce)}$	Comments
										22 from ^{194}Au ε decay (38.02 h).

$^{194}_{78}Pt_{116}$-26

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[&]	δ[&]	α[a]	Comments
									I_γ: unweighted average of 26.1 *4* from ^{194}Ir β^- decay (19.18 h) and 24.1 *4* from ^{194}Au ε decay (38.02 h).
2114.106	1^+	190.05[c] *8*	0.82 *15*	1924.285	1^+	M1		1.077	α(K)=0.887 *13*; α(L)=0.1461 *21*; α(M)=0.0338 *5* α(N)=0.00835 *12*; α(O)=0.001503 *22*; α(P)=0.0001014 *15*
		491.967[c] *25*	1.25 *6*	1622.197	2^+				
		566.91[c] *4*	0.82 *5*	1547.281	0^+	[M1]		0.0561	α(K)=0.0465 *7*; α(L)=0.00744 *11*; α(M)=0.001715 *24* α(N)=0.000424 *6*; α(O)=7.64×10^{-5} *11*; α(P)=5.20×10^{-6} *8*
		602.053 *18*	2.10 *9*	1512.004	2^+				
		846.96 *12*	9.78 *9*	1267.200	0^+	M1		0.0200	Mult.: ce data give δ(E2/M1)<0.4, ΔJ^π requires M1.
		1492.055 *18*	42.1 *6*	622.024	2^+	M1(+E2)	<0.5	0.00466 *24*	E_γ: weighted average of 1492.020 *27* from ^{194}Ir β^- decay (19.18 h) and 1492.065 *14* from ^{194}Au ε decay (38.02 h). I_γ: weighted average of 41.1 *9* from ^{194}Ir β^- decay (19.18 h) and 42.4 *5* from ^{194}Au ε decay (38.02 h).
		1785.634 *17*	100.0 *9*	328.473	2^+	M1(+E2)	−0.04 *3*	0.00333	E_γ: weighted average of 1785.631 *21* from ^{194}Ir β^- decay (19.18 h) and 1785.636 *17* from ^{194}Au ε decay (38.02 h). I_γ: from ^{194}Ir β^- decay (19.18 h).
		2114.100 *14*	60.9 *17*	0.0	0^+	M1		0.00250	E_γ: from ^{194}Au ε decay (38.02 h). Other: 2114.099 *26* from ^{194}Ir β^- decay (19.18 h). I_γ: unweighted average of 59.2 *6* from ^{194}Ir β^- decay (19.18 h) and 62.6 *6* from ^{194}Au ε decay (38.02 h). Mult.: ce data gives δ(E2/M1)<0.5, ΔJ^π requires M1.
2131.126	(2^+)	1208.372 *18*	100.0 *29*	922.772	3^+				
		1319.70[c] *4*	39.4 *25*	811.288	4^+	[E2]		0.00322	
		1509.08[c] *3*	49 *4*	622.024	2^+				
		1802.637[b] *14*	<817[b]	328.473	2^+	M1,E2		0.0026 *7*	
		2131.08[c] *7*	6.5 *8*	0.0	0^+	[E2]		1.65×10^{-3}	
2134.123	$1^+,2^+$	1512.073 *14*	37 *4*	622.024	2^+	M1,E2		0.0037 *11*	E_γ: from ^{194}Au ε decay (38.02 h). Others: 1512.15 *21* from ^{194}Ir β^- decay (19.18 h) and 1511.6 *4* from (n,n′γ).

$^{194}_{78}Pt_{116}$-27

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	δ&	α[a]	$I_{(\gamma+ce)}$	Comments
										I_γ: weighted average of 41 *6* from ^{194}Ir β^- decay (19.18 h), 43 *4* from ^{194}Au ε decay (38.02 h), and 32.2 *34* from (n,n′γ).
2134.123	$1^+,2^+$	1805.727@ *14*	100.0 *8*	328.473	2^+	M1(+E2)	<0.5	0.00313 *14*		E_γ: from ^{194}Ir β^- decay (19.18 h). Others: 1805.729 *14* from ^{194}Au ε decay (38.02 h) and 1805.7 *2* from (n,n′γ).
										I_γ: from ^{194}Ir β^- decay (19.18 h). Others: 100.0 *14* from ^{194}Au ε decay (38.02 h) and 100 *10* from (n,n′γ).
2140.696	$(1^+,2^+)$	1518.657 *14*	100.0 *9*	622.024	2^+	(M1(+E2))	<0.7	0.0043 *4*		E_γ: weighted average of 1518.652 *22* from ^{194}Ir β^- decay (19.18 h) and 1518.659 *14* from ^{194}Au ε decay (38.02 h). Other: 1518.7 *2* from (n,n′γ).
										I_γ: from ^{194}Au ε decay (38.02 h). Other: 100.0 *22* from ^{194}Ir β^- decay (19.18 h).
		1812.225 *17*	44.8 *9*	328.473	2^+	(M1)		0.00324		E_γ: weighted average of 1812.18 *7* from ^{194}Ir β^- decay (19.18 h) and 1812.228 *17* from ^{194}Au ε decay (38.02 h).
										I_γ: weighted average of 33 *9* from ^{194}Ir β^- decay (19.18 h) and 44.9 *7* from ^{194}Au ε decay (38.02 h).
		2140.71 *8*	0.45 *18*	0.0	0^+					
2157.995	$(2)^+$	1346.68 *4*	6.40 *10*	811.288	4^+					
		1535.781# *21*	6.1 *23*	622.024	2^+					E_γ: level-energy difference=1535.965.
		1829.519 *14*	100.0 *10*	328.473	2^+	M1(+E2)	<0.3	0.00313 *7*		E_γ: from ^{194}Au ε decay (38.02 h). Others: 1829.524 *33* from ^{194}Ir β^- decay (19.18 h) and 1829.4 *2* from (n,n′γ).
2163.747	0^+	49.7 *3*	6.2 *17*	2114.106	1^+	M1		9.12 *21*		α(L)=7.02 *16*; α(M)=1.62 *4* α(N)=0.402 *10*; α(O)=0.0722 *17*; α(P)=0.00486 *11*
		239.443 *17*	12.5 *5*	1924.285	1^+	M1		0.567		α(K)=0.467 *7*; α(L)=0.0766 *11*; α(M)=0.01769 *25* α(N)=0.00438 *7*; α(O)=0.000788 *11*; α(P)=5.32×10^{-5} *8*
		366.365 *22*	7.43 *23*	1797.390	1^-	[E1]		0.01639		
		1541.715 *18*	6.14 *9*	622.024	2^+	[E2]		0.00248		
		1835.274 *14*	100.0 *9*	328.473	2^+	E2		0.00193		
		2164.1 *4*		0.0	0^+	E0			3.1 *2*	E_γ,Mult.: seen in ce data only. q^2_K(E0/E2)=15.8 *10*, X(E0/E2)=1.73 *11* (2005Ki02,evaluation).
2184.910	$1^+,2^+$	752.47c *7*	1.00 *11*	1432.551	3^-					
		1262.27 *15*	8.78 *15*	922.772	3^+					
		1562.891 *14*	100.0 *11*	622.024	2^+	M1(+E2)	<0.3	0.00432 *11*		
		1856.403 *17*	13.19 *18*	328.473	2^+					

$^{194}_{78}Pt_{116}$-28

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[&]	δ[&]	α[a]	Comments
2214.525	(2$^+$)	397.84[c] *5*	0.208 *19*	1816.591	(2)$^+$				
		702.54 *4*	1.47 *4*	1512.004	2$^+$	(M1)		0.0322	α(K)=0.0267 *4*; α(L)=0.00425 *6*; α(M)=0.000977 *14* α(N)=0.000242 *4*; α(O)=4.36×10^{-5} *7*; α(P)=2.98×10^{-6} *5*
		781.974 *17*	2.140 *27*	1432.551	3$^-$	[E1]		0.00335	
		1291.765 *14*	4.81 *8*	922.772	3$^+$	(M1(+E2))	<0.3	0.00675 *18*	
		1592.489 *14*	64.0 *11*	622.024	2$^+$	M1(+E2)	<0.3	0.00415 *10*	
		1885.95 *7*	100.0 *23*	328.473	2$^+$	M1(+E2)	<0.3	0.00296 *7*	
		2214.47 *5*	0.57 *15*	0.0	0$^+$	[E2]		1.60×10^{-3}	
2215.534	1$^+$	101.46 *4*	0.269 *17*	2114.106	1$^+$	M1		6.39	α(K)=5.26 *8*; α(L)=0.875 *13*; α(M)=0.202 *3* α(N)=0.0501 *7*; α(O)=0.00901 *13*; α(P)=0.000606 *9*
		106.51 *4*	0.400 *17*	2109.068	(2)$^+$	M1		5.56	α(K)=4.58 *7*; α(L)=0.761 *11*; α(M)=0.1759 *25* α(N)=0.0435 *7*; α(O)=0.00783 *11*; α(P)=0.000527 *8*
		151.83 *3*	3.18 *8*	2063.746	2$^+$	M1		2.03	α(K)=1.667 *24*; α(L)=0.276 *4*; α(M)=0.0637 *9* α(N)=0.01577 *22*; α(O)=0.00284 *4*; α(P)=0.000191 *3*
		162.58 *4*	1.12 *4*	2053.018	(2)$^+$	M1(+E2)	<0.7	1.52 *16*	α(K)=1.20 *18*; α(L)=0.247 *20*; α(M)=0.058 *6* α(N)=0.0144 *15*; α(O)=0.00252 *19*; α(P)=0.000136 *22*
		171.837 *23*	3.07 *6*	2043.718	1$^+$	M1		1.428	α(K)=1.176 *17*; α(L)=0.194 *3*; α(M)=0.0448 *7* α(N)=0.01110 *16*; α(O)=0.00200 *3*; α(P)=0.0001346 *19*
		211.87 *3*	0.225 *17*	2003.659	(2$^+$)				
		285.315[#] *14*	2.197 *25*	1930.368	2$^+$	(M1+E2)	1.5 *+3−2*	0.187 *18*	α(K)=0.137 *16*; α(L)=0.0382 *11*; α(M)=0.00930 *21* α(N)=0.00229 *6*; α(O)=0.000386 *12*; α(P)=1.49×10^{-5} *19* E_γ: level-energy difference=285.166.
		291.52[@] *7*	1.04 *14*	1924.285	1$^+$	E2(+M1)	>2.0	0.130 *23*	α(K)=0.086 *21*; α(L)=0.0328 *14*; α(M)=0.0081 *3* α(N)=0.00200 *7*; α(O)=0.000329 *15*; α(P)=9.0×10^{-6} *25*
		321.960[c] *18*	0.381 *14*	1893.588	0$^+$				
		398.937 *8*	0.526 *19*	1816.591	(2)$^+$				
		418.200 *25*	2.14 *17*	1797.390	1$^-$	[E1]		0.01218	
		436.90 *9*	0.537 *17*	1778.578	2$^+$				
		544.826 *17*	1.096 *25*	1670.667	2$^+$	(M1(+E2))	<0.7	0.055 *7*	α(K)=0.046 *6*; α(L)=0.0075 *8*; α(M)=0.00174 *17* α(N)=0.00043 *4*; α(O)=7.7×10^{-5} *8*; α(P)=5.1×10^{-6} *7*
		593.37 *3*	12.74 *11*	1622.197	2$^+$	M1+E2	−0.25 *18*	0.048 *4*	α(K)=0.040 *3*; α(L)=0.0064 *4*; α(M)=0.00147 *8*

$^{194}_{78}Pt_{116}$-29

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[&]	δ[&]	α[a]	Comments
									α(N)=0.000364 *20*; α(O)=6.6×10^{-5} *4*; α(P)=4.4×10^{-6} *4*
2215.534	1$^+$	668.247 *17*	4.79 *6*	1547.281	0$^+$	M1		0.0366	α(K)=0.0304 *5*; α(L)=0.00484 *7*; α(M)=0.001114 *16*
									α(N)=0.000276 *4*; α(O)=4.96×10^{-5} *7*; α(P)=3.39×10^{-6} *5*
		703.525 *14*	17.92 *17*	1512.004	2$^+$	M1+E2	+0.24 *6*	0.0310 *8*	α(K)=0.0256 *7*; α(L)=0.00410 *9*; α(M)=0.000945 *20*
									α(N)=0.000234 *5*; α(O)=4.21×10^{-5} *9*; α(P)=2.86×10^{-6} *7*
		736.249 *14*	5.51 *33*	1479.272	0$^+$	M1		0.0285	α(K)=0.0237 *4*; α(L)=0.00376 *6*; α(M)=0.000865 *13*
									α(N)=0.000214 *3*; α(O)=3.86×10^{-5} *6*; α(P)=2.64×10^{-6} *4*
		948.323 *9*	100.0 *8*	1267.200	0$^+$	M1		0.01497	E$_\gamma$: from ^{194}Au ε decay (38.02 h). Other: 948.3 *2* from (n,n′γ). I$_\gamma$: from ^{194}Au ε decay (38.02 h). Other: 100 *10* from (n,n′γ).
		1593.530 *20*	33.4 *6*	622.024	2$^+$	(M1+E2)	0.74 *8*	0.00356 *11*	
		1887.030 *23*	90 *11*	328.473	2$^+$	(M1+E2)	+0.75 *24*	0.00260 *18*	E$_\gamma$: other: 1886.6 *2* from (n,n′γ). I$_\gamma$: other: 141 *14* from (n,n′γ).
		2215.509 *16*	7.32 *14*	0.0	0$^+$	M1		0.00235	
2239.636	(2)$^-$	442.225[c] *19*	3.42 *11*	1797.390	1$^-$				
		807.119 *21*	6.9 *22*	1432.551	3$^-$				
		1316.857 *14*	32.05 *28*	922.772	3$^+$				
		1617.604 *14*	100.0 *11*	622.024	2$^+$	E1		1.18×10^{-3}	
		1911.154 *14*	55.1 *6*	328.473	2$^+$	E1		1.17×10^{-3}	
2250.665?	(1,2$^+$)	1922.171[c] *22*	100.0 *19*	328.473	2$^+$				
		2250.73[c] *6*	0.77 *7*	0.0	0$^+$				
2287.376	(1$^+$,2$^+$)	173.3 *3*	2.9 *11*	2114.106	1$^+$				
		243.65 *3*	4.52 *26*	2043.718	1$^+$				
		490.030[c] *22*	4.15 *15*	1797.390	1$^-$				
		1665.321 *18*	17.06 *22*	622.024	2$^+$				
		1958.898 *14*	100.0 *11*	328.473	2$^+$	(M1(+E2))	<0.6	0.00268 *14*	
		2287.28 *5*	0.37 *7*	0.0	0$^+$				
2298.157	1$^+$	189.17 *6*	0.88 *13*	2109.068	(2)$^+$	M1		1.091	α(K)=0.899 *13*; α(L)=0.1480 *21*; α(M)=0.0342 *5*
									α(N)=0.00846 *12*; α(O)=0.001523 *22*; α(P)=0.0001027 *15*
		500.737 *24*	1.37 *7*	1797.390	1$^-$	[E1]		0.00824	
		627.59[@] *3*	1.00 *7*	1670.667	2$^+$	[M1,E2]		0.029 *15*	α(K)=0.023 *13*; α(L)=0.0041 *16*; α(M)=0.0010

$^{194}_{78}Pt_{116}$-30

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[&]	δ[&]	α[a]	Comments
									4 α(N)=0.00024 *9*; α(O)=4.2×10^{-5} *17*; α(P)=2.6×10^{-6} *14*
2298.157	1$^+$	675.943 *16*	9.43 *9*	1622.197	2$^+$	M1(+E2)	<0.4	0.0340 *17*	α(K)=0.0281 *15*; α(L)=0.00452 *19*; α(M)=0.00104 *5* α(N)=0.000257 *11*; α(O)=4.63×10^{-5} *20*; α(P)=3.13×10^{-6} *17*
		786.07[c] *5*	0.83 *5*	1512.004	2$^+$	[M1,E2]		0.017 *8*	
		818.856 *18*	7.24 *9*	1479.272	0$^+$	M1		0.0217	
		1030.997 *23*	2.31 *7*	1267.200	0$^+$	M1		0.01212	
		1676.111 *21*	16.13 *13*	622.024	2$^+$	(M1)		0.00379	
		1969.680 *14*	100.0 *9*	328.473	2$^+$	M1+E2	−0.35 *4*	0.00268 *5*	E_γ: from ^{194}Au ε decay (38.02 h). Other: 1969.6 *3* from (n,n′γ).
		2298.171 *17*	5.68 *8*	0.0	0$^+$	M1		0.00224	
2309.6	(11$^-$)	262.1 *2*	100	2047.52	(9$^-$)				
2311.875	2$^+$	197.82 *7*	2.5 *6*	2114.106	1$^+$	M1		0.963	α(K)=0.793 *12*; α(L)=0.1305 *19*; α(M)=0.0302 *5* α(N)=0.00746 *11*; α(O)=0.001343 *19*; α(P)=9.06×10^{-5} *13*
		387.65[c] *5*	1.78 *18*	1924.285	1$^+$	[M1,E2]		0.10 *6*	α(K)=0.08 *5*; α(L)=0.016 *5*; α(M)=0.0038 *10* α(N)=0.00093 *25*; α(O)=0.00016 *5*; α(P)=9.E−6 *6*
		689.61[c] *3*	2.86 *11*	1622.197	2$^+$	[M1,E2]		0.023 *11*	
		799.857[c] *26*	3.14 *14*	1512.004	2$^+$	[M1,E2]		0.016 *8*	
		1081.8 *19*	<5.2	1229.520	4$^+$	[E2]		0.00469	
		1388.93 *19*	9.30 *21*	922.772	3$^+$	[M1,E2]		0.0044 *15*	
		1500.66[c] *13*	16.7 *21*	811.288	4$^+$	(E2)		0.00259	
		1689.845 *14*	73.9 *11*	622.024	2$^+$	(M1(+E2))	<0.4	0.00362 *12*	
		1983.411 *17*	20.66 *21*	328.473	2$^+$	M1+E2+E0		0.026 *4*	α: from α(K)exp in ^{194}Au ε decay.
		2311.856 *14*	100.0 *14*	0.0	0$^+$	(E2)		1.56×10^{-3}	
2356.059	0$^+$	69.6[@] *3*	4.5 *15*	2287.376	(1$^+$,2$^+$)	[M1]		3.40 *7*	α(L)=2.61 *5*; α(M)=0.605 *12* α(N)=0.150 *3*; α(O)=0.0269 *5*; α(P)=0.00181 *4* E_γ,I_γ: seen in ce data, with intensity deduced from measured I(ceL) and theoretical α(L1)=2.35 assuming Mult=M1.
		140.514 *18*	100.0 *22*	2215.534	1$^+$	M1		2.52	α(K)=2.08 *3*; α(L)=0.344 *5*; α(M)=0.0794 *12* α(N)=0.0197 *3*; α(O)=0.00354 *5*; α(P)=0.000238 *4*
		431.61[c] *6*	4.7 *5*	1924.285	1$^+$	[M1]		0.1149	α(K)=0.0950 *14*; α(L)=0.01535 *22*; α(M)=0.00354 *5* α(N)=0.000876 *13*; α(O)=0.0001577 *22*; α(P)=1.070×10^{-5} *15*
		843.89[c] *20*	<2.33	1512.004	2$^+$	[E2]		0.00770	

$^{194}_{78}Pt_{116}$-31

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[&]	α[a]	$I_{(\gamma+ce)}$	Comments
2356.059	0^+	2027.608[c] *20*	8.95 *23*	328.473	2^+	[E2]	1.73×10^{-3}		
		2357.0 *8*		0.0	0^+	E0		0.20 *2*	E_γ,Mult.: seen in ce data only.
2365.932	1^+	1743.77 *15*	47.5 *6*	622.024	2^+				
		2365.919 *21*	100.0 *14*	0.0	0^+	M1	0.00218		
2397.321	2^+	435.935[c] *28*	35.1 *18*	1961.332	2^-	[E1]	0.01111		
		1474.37 *7*	81 *4*	922.772	3^+	[M1,E2]	0.0038 *12*		
		1775.795[#] *27*	100.0 *18*	622.024	2^+	[M1,E2]	0.0027 *7*		E_γ: level-energy difference=1775.289.
		2068.869 *17*	88 *6*	328.473	2^+	[M1,E2]	0.0021 *5*		E_γ: other: 2068.8 *5* from (n,n′γ).
		2397.25 *4*	15.9 *9*	0.0	0^+	[E2]	1.52×10^{-3}		Mult.: ce data in ^{194}Au ε decay (30.02 h) suggests M3, which disagrees with E2 expected from $J^\pi=2^+$ for 2397 level.
2412.744	1^+	1790.6 *1*	10.2 *17*	622.024	2^+				
		2084.290 *17*	100 *7*	328.473	2^+				
		2412.693 *19*	40.0 *7*	0.0	0^+	M1	0.00213		
2423.6	$(6^+,7,8^+)$	324.0[c] *5*	≈56	2099.55	$(8)^+$				
		1011.8 *5*	100 *6*	1411.83	6^+				
2438.44	(10^+)	338.8 *2*	100 *6*	2099.55	$(8)^+$	(E2)	0.0691		α(K)=0.0453 *7*; α(L)=0.0181 *3*; α(M)=0.00450 *7* α(N)=0.001103 *16*; α(O)=0.000181 *3*; α(P)=4.63×10^{-6} *7* E_γ: from (α,2nγ). Other: 338.8 *5* from ^{194}Ir β^- decay (171 d). I_γ: from ^{194}Ir β^- decay (171 d). Others: 100 *16* from (α,2nγ) and 100 *11* from (^{82}Se,Xγ). Mult.: from ce data in ^{194}Ir β^- decay (171 d); γ(θ) in (α,2nγ) consistent with ΔJ=2.
		391.0 *2*	64 *4*	2047.52	(9^-)	(E1)	0.01415		E_γ: from (α,2nγ). Other: 390.8 *5* from ^{194}Ir β^- decay (171 d). I_γ: from ^{194}Ir β^- decay (171 d). Other: 63 *19* from (α,2nγ). Mult.: from ce data in ^{194}Ir β^- decay (171 d).
2451.1	(12^+)	(12.7 *12*)		2438.44	(10^+)				E_γ: from ^{194}Ir β^- decay (171 d).
2517.20	1	2188.7[‡c]	<35[‡]	328.473	2^+				
		2517.2[‡] *4*	100[‡]	0.0	0^+				
2577.30	1	2248.8[‡c]	<28[‡]	328.473	2^+				
		2577.3[‡] *4*	100[‡]	0.0	0^+				
2663.4	$(10,11,12^+)$	225.0	100	2438.44	(10^+)				E_γ: from (^{82}Se,Xγ) only.
2689.25	(8^+)	763.4 *1*	100	1925.85	(6^+)	[E2]	0.00949		B(E2)(W.u.)=53 *+12−7* E_γ: from Coulomb excitation only.
2700.1	(11^-)	652.6 *2*	100	2047.52	(9^-)				E_γ: from (α,2nγ). γ also reported in (^{82}Se,Xγ) and (^{209}Bi,Xγ). Mult.: γ(θ) in (α,2nγ) consistent with ΔJ=2.

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Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.&	α[a]	Comments
2720.2	1	2391.7‡[c]	<52‡	328.473	2^+			
		2720.2‡ *5*	100‡	0.0	0^+			
2842.1	(14^+)	391.0 *2*	100	2451.1	(12^+)			E_γ: from (α,2nγ).
2848.6	(10^+)	749 *1*	100	2099.55	$(8)^+$	[E2]	0.00988	B(E2)(W.u.)=34 *+9−8* E_γ: from Coulomb excitation.
2916.6	(10^+)	817 *1*	100	2099.55	$(8)^+$	[E2]	0.00824	B(E2)(W.u.)=43 *+12−14* E_γ: from Coulomb excitation.
2990.1?	(13^-)	290	100	2700.1	(11^-)			
3000.11	1	2671.6‡[c]	<10.0‡	328.473	2^+			
		3000.1‡ *3*	100‡	0.0	0^+			
3014.81	1	2686.3‡	55‡ *8*	328.473	2^+			
		3014.8‡ *3*	100‡	0.0	0^+			
3057.8?	$(10,11,12^+)$	619.4[c]	100	2438.44	(10^+)			
3078.81	1	2750.3‡[c]	<15.0‡	328.473	2^+			
		3078.8‡ *3*	100‡	0.0	0^+			
3141.11	1	2812.6‡[c]	<26‡	328.473	2^+			
		3141.1‡ *4*	100‡	0.0	0^+			
3351.31	1	3022.8‡	27‡ *17*	328.473	2^+			
		3351.3‡ *3*	100‡	0.0	0^+			
3375.24	1	2753.2‡	100‡ *13*	622.024	2^+			
		3375.2‡ *3*	78‡	0.0	0^+			
3383.01	1	3054.5‡[c]	<23.0‡	328.473	2^+			
		3383.0‡ *4*	100‡	0.0	0^+			
3417.12	1	3088.6‡[c]	<6.0‡	328.473	2^+			
		3417.1‡ *3*	100‡	0.0	0^+			
3421.4	1	3092.9‡[c]	<18.0‡	328.473	2^+			
		3421.4‡ *5*	100‡	0.0	0^+			
3427.71	1	3099.2‡[c]	<25.0‡	328.473	2^+			
		3427.7‡ *4*	100‡	0.0	0^+			
3459.31	1	3130.8‡[c]	<16.0‡	328.473	2^+			
		3459.3‡ *4*	100‡	0.0	0^+			
3465.2	1	3136.7‡[c]	<72‡	328.473	2^+			
		3465.2‡ *7*	100‡	0.0	0^+			
3477.01	1	3148.5‡[c]	<36‡	328.473	2^+			
		3477.0‡ *4*	100‡	0.0	0^+			
3497.9	1	3169.4‡[c]	<64‡	328.473	2^+			

$^{194}_{78}Pt_{116}$-33

Adopted Levels, Gammas (continued)

γ(^{194}Pt) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Comments
3497.9	1	3497.9[‡] *6*	100[‡]	0.0	0^+	
3499.7	(16^+)	657.6		2842.1	(14^+)	E_γ: from (^{82}Se,Xγ). γ also reported in (^{209}Bi,Xγ).
3545.3	1	3216.8[‡][c]	<33[‡]	328.473	2^+	
		3545.3[‡] *5*	100[‡]	0.0	0^+	
3697.5	1	3369.0[‡][c]	<52[‡]	328.473	2^+	
		3697.4[‡] *5*	100[‡]	0.0	0^+	
3703.3	1	3703.3[‡] *4*		0.0	0^+	
3717.02	1	3388.5[‡][c]	<36[‡]	328.473	2^+	
		3717.0[‡] *4*	100[‡]	0.0	0^+	
3726.8	1	3726.8[‡] *4*		0.0	0^+	
3747.1	1	3418.6[‡][c]	<26[‡]	328.473	2^+	
		3747.1[‡] *6*	100[‡]	0.0	0^+	
3754.7	(18^+)	255.0		3499.7	(16^+)	E_γ: from (^{82}Se,Xγ) and (^{209}Bi,Xγ).
3813.62	1	3485.1[‡][c]	<16.0[‡]	328.473	2^+	
		3813.6[‡] *4*	100[‡]	0.0	0^+	
3890.22	1	3561.7[‡][c]	<30[‡]	328.473	2^+	
		3890.2[‡] *4*	100[‡]	0.0	0^+	
3937.7	(20^+)	183.0		3754.7	(18^+)	E_γ: from (^{82}Se,Xγ) and (^{209}Bi,Xγ).
4529.8	(22^+)	592.1		3937.7	(20^+)	E_γ: from (^{82}Se,Xγ). Other: 529 from (^{209}Bi,Xγ).
4541.7	(22^+)	604		3937.7	(20^+)	E_γ: from (^{209}Bi,Xγ) only.
4896.7	(24^+)	355		4541.7	(22^+)	E_γ: from (^{209}Bi,Xγ) only.
5336.7	(26^+)	440		4896.7	(24^+)	E_γ: from (^{209}Bi,Xγ) only.

[†] Unless otherwise noted, values are from ^{194}Au ε decay (38.02 h) for transitions from levels up to 2413. Above 2413 level, values are from various reactions, as specifically noted. All E0 transitions are from ^{194}Au ε decay.
[‡] From (γ,γ′) only.
[#] Very poor fit; uncertainty has been increased by a factor of 5 in the fitting procedure by evaluators.
[@] Poor fit; uncertainty has been increase by a factor of 2 in the fitting procedure by evaluators.
[&] From ce and γγ(θ) data in ^{194}Au ε decay, unless otherwise noted.
[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.
[b] Multiply placed with undivided intensity.
[c] Placement of transition in the level scheme is uncertain.

$^{194}_{78}Pt_{116}$-34

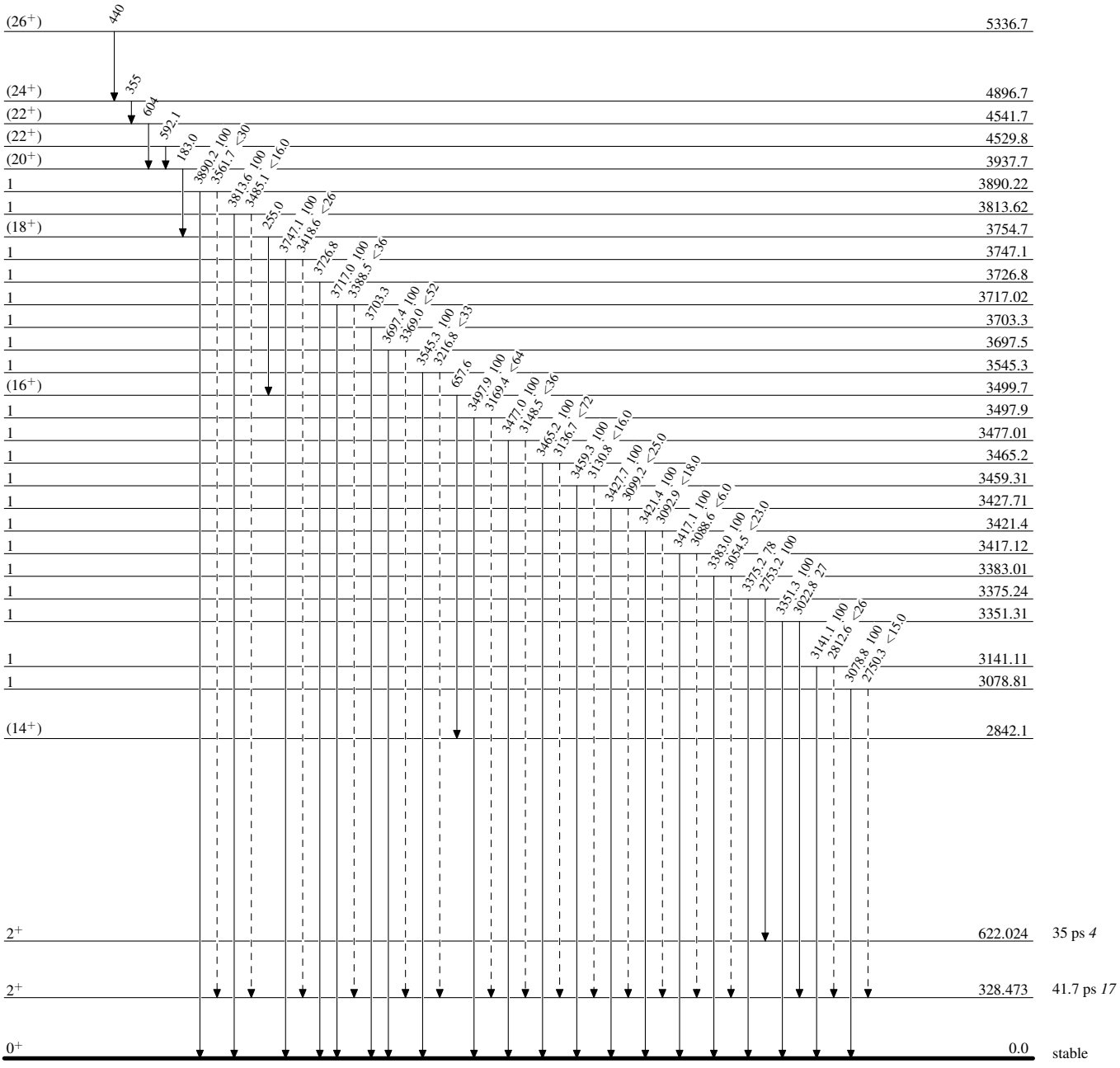
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{194}_{78}Pt_{116}$

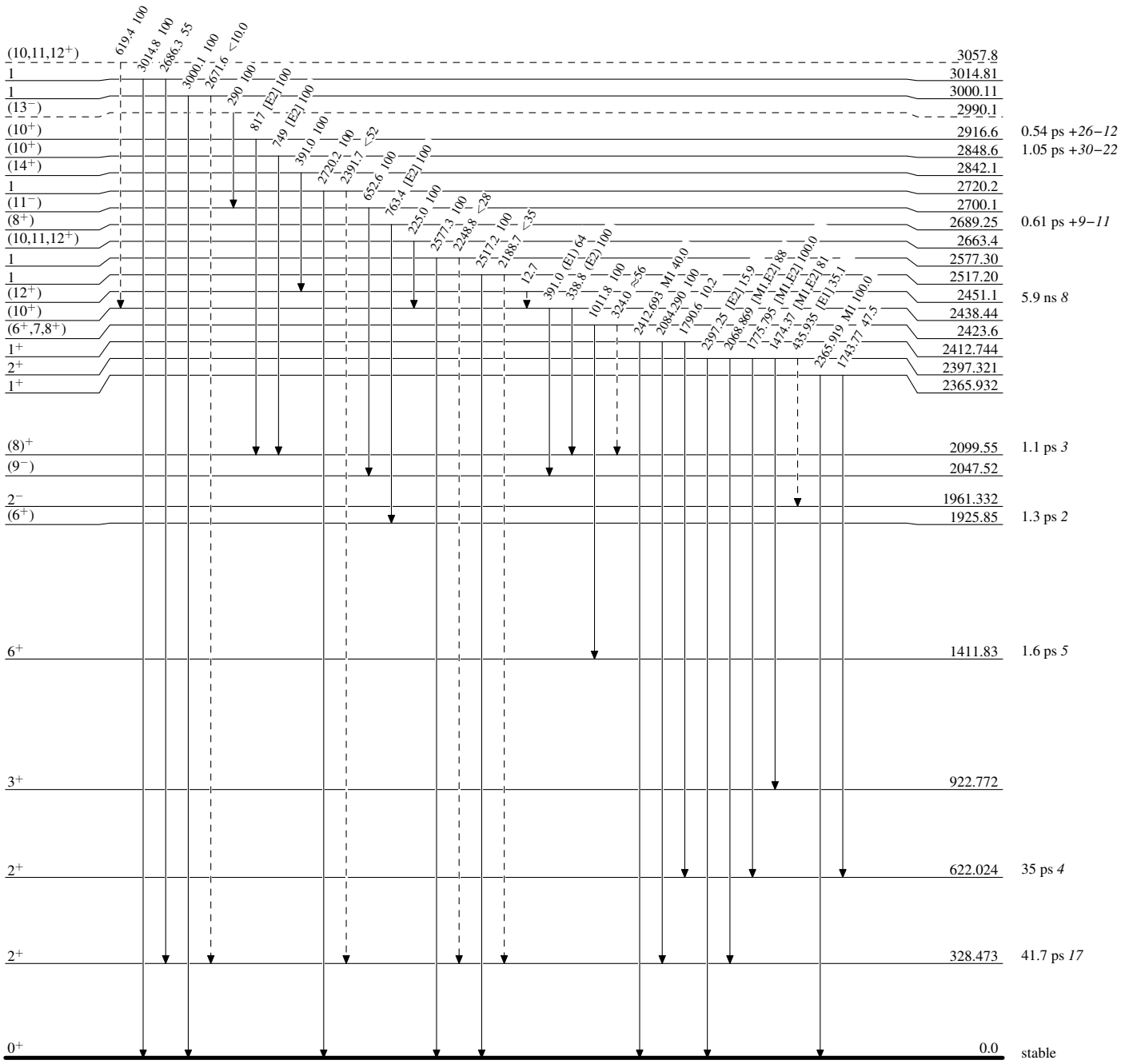
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



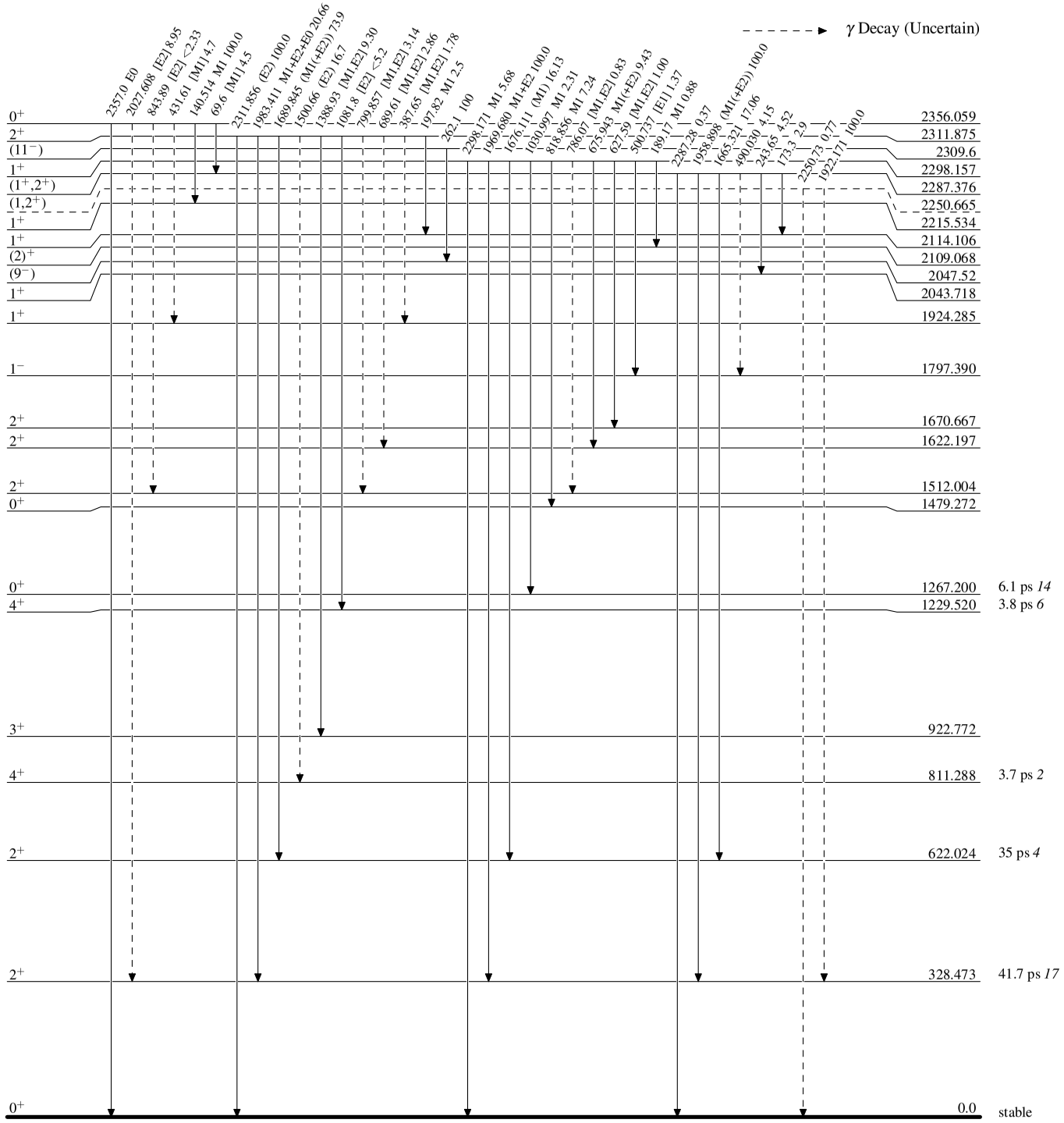
$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

Level Scheme (continued)

Legend

Intensities: Relative photon branching from each level



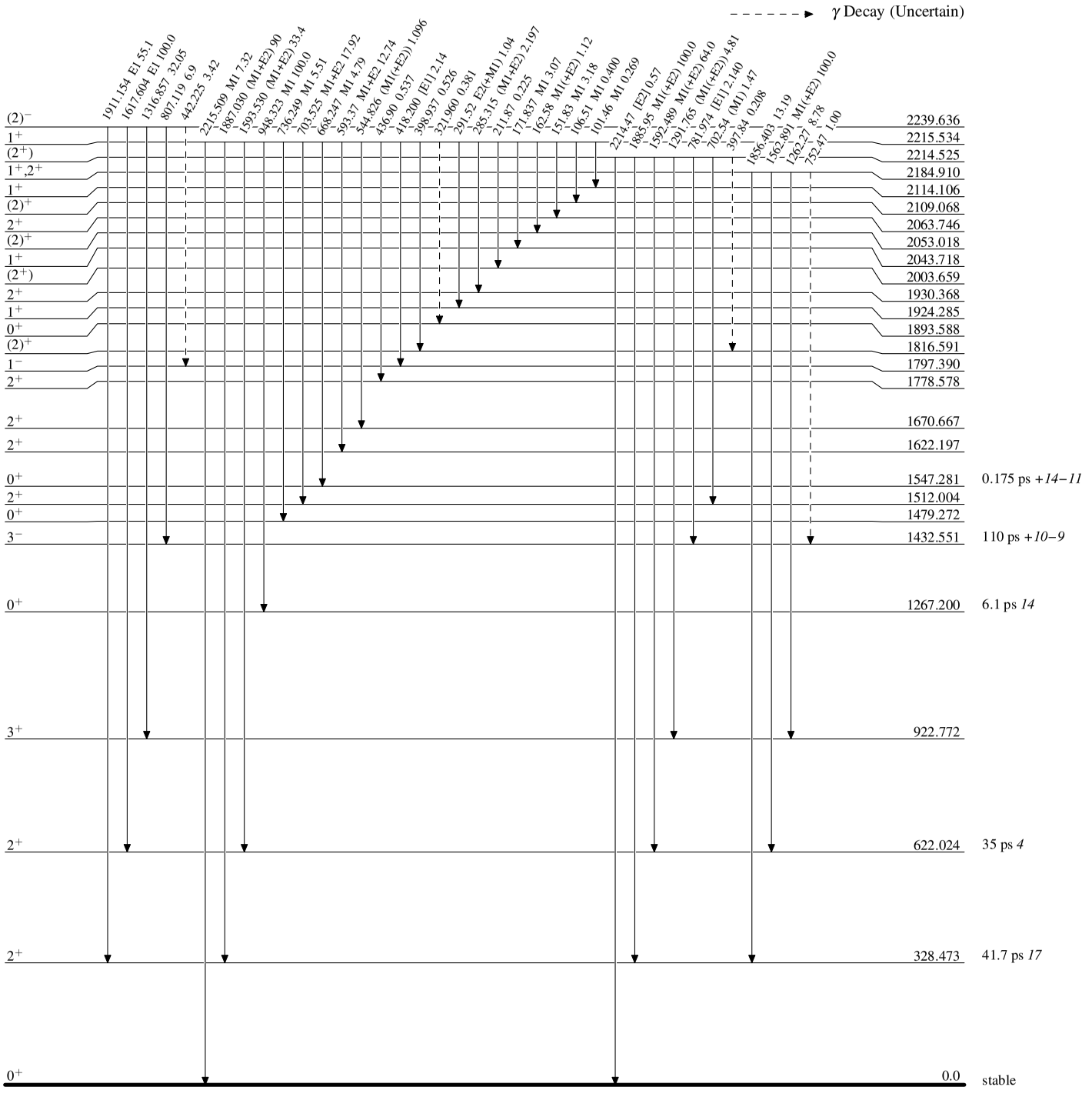
$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level



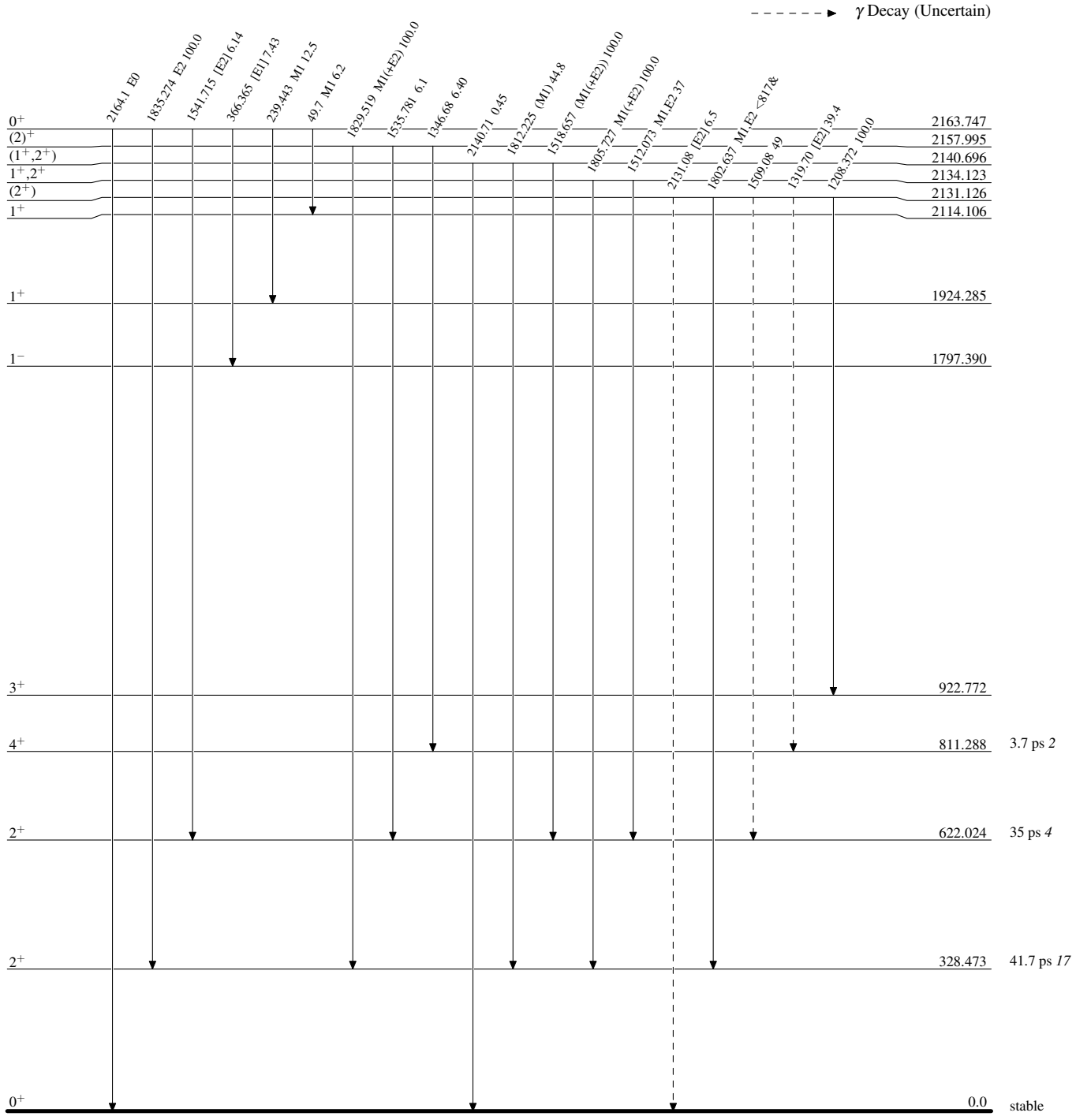
$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

Legend

Level Scheme (continued)

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



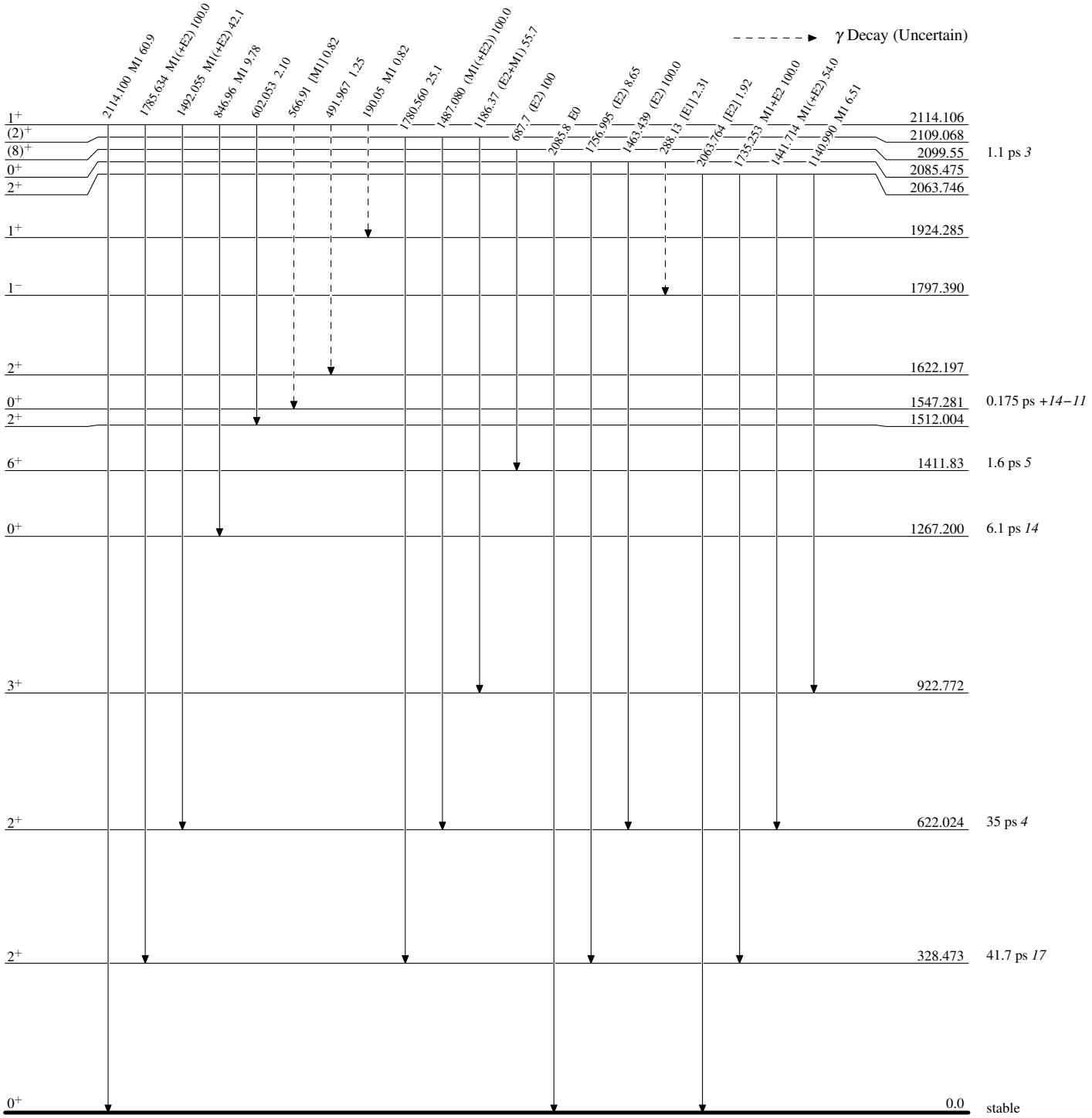
$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

Level Scheme (continued)

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

Legend



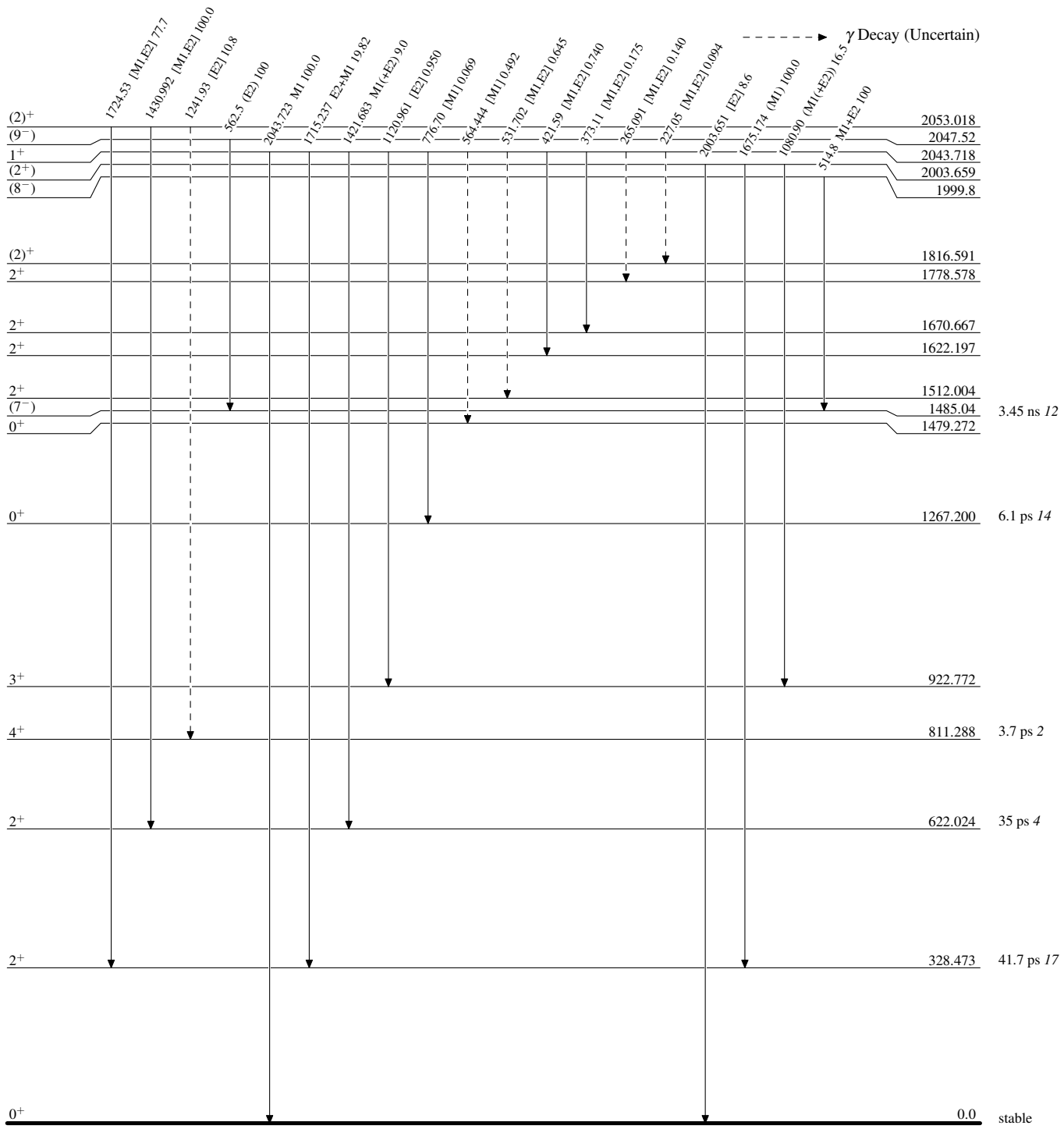
$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

Level Scheme (continued)

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

Legend

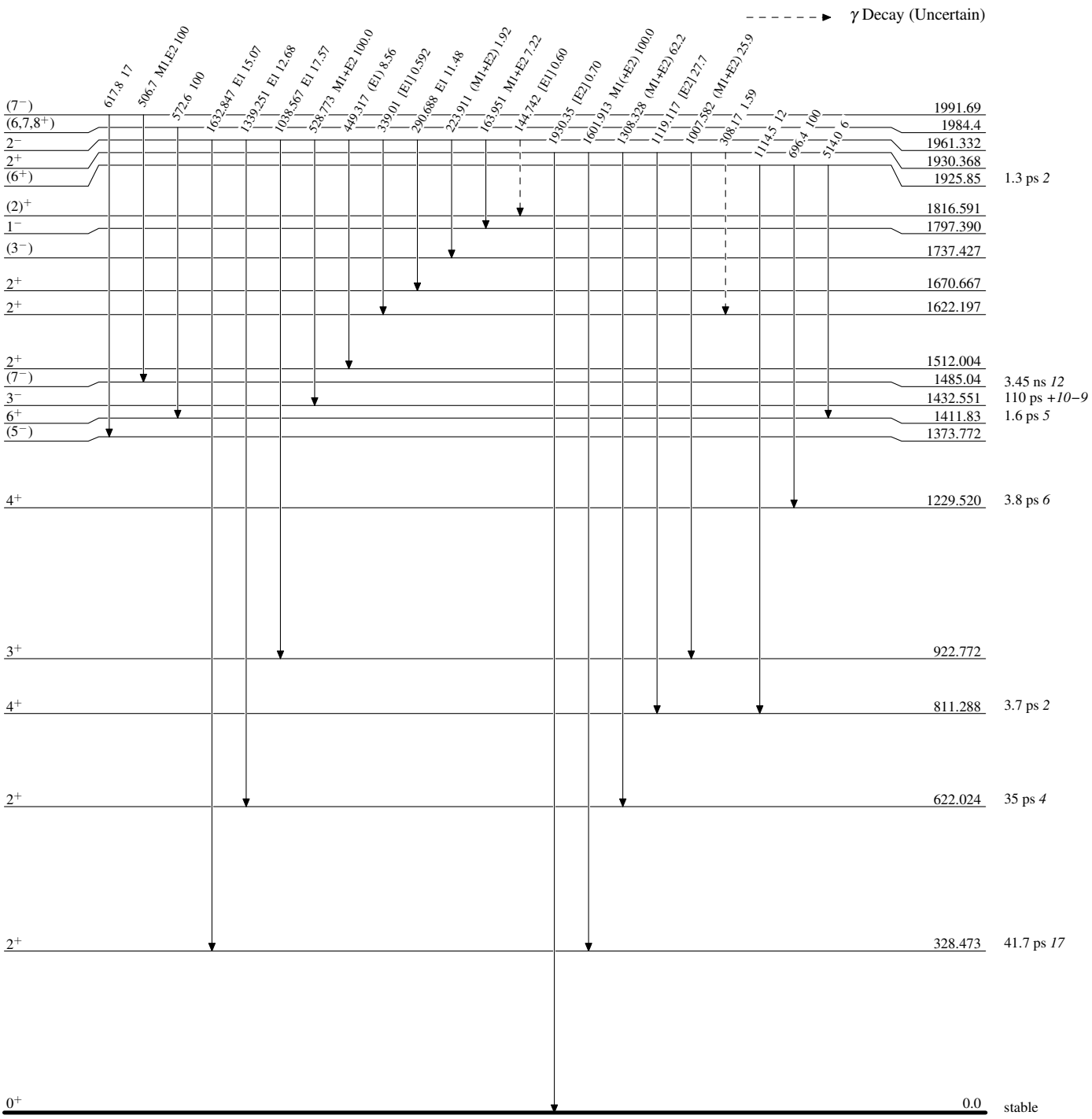


$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

Level Scheme (continued)

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



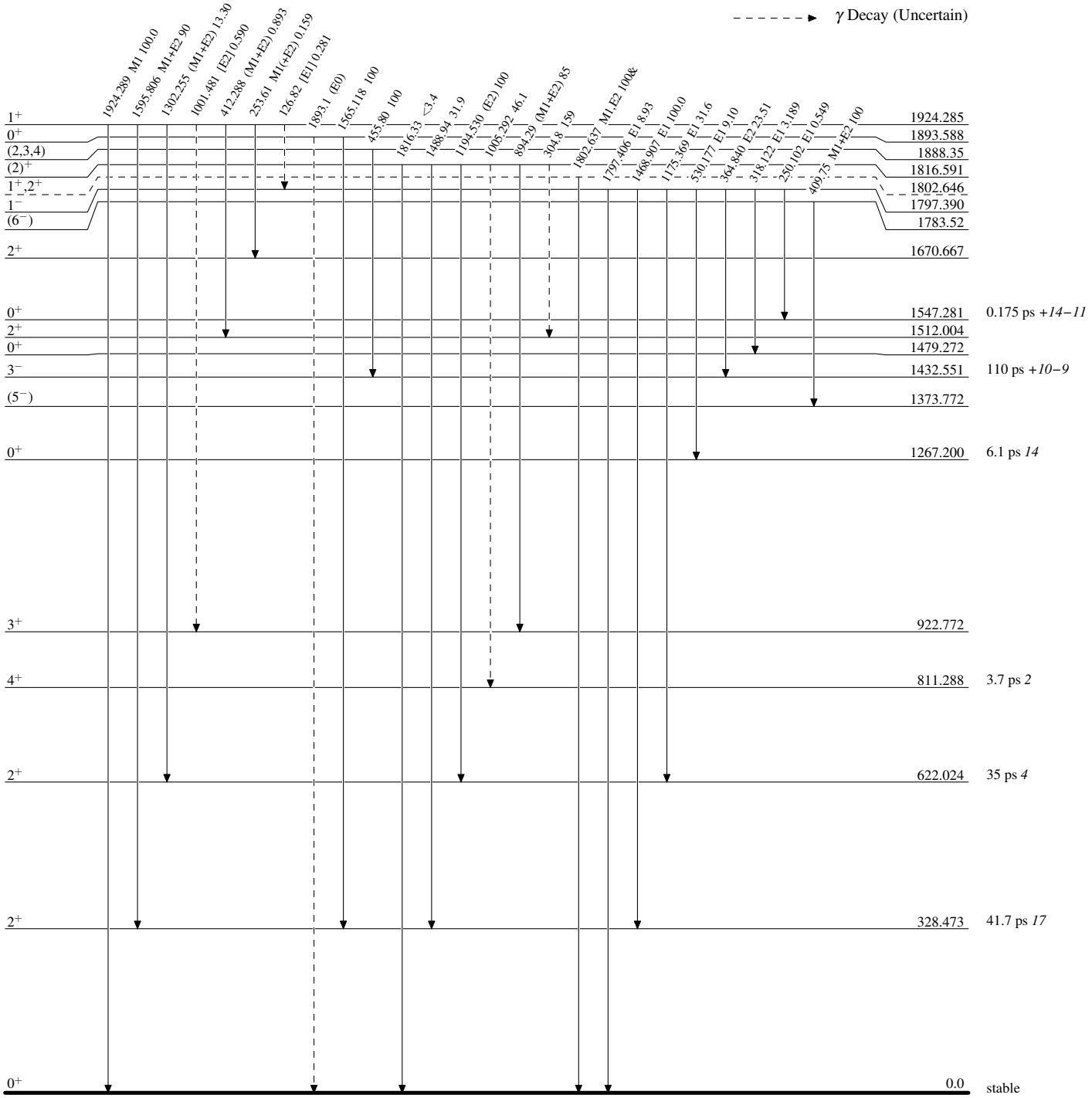
$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

Level Scheme (continued)

Legend

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

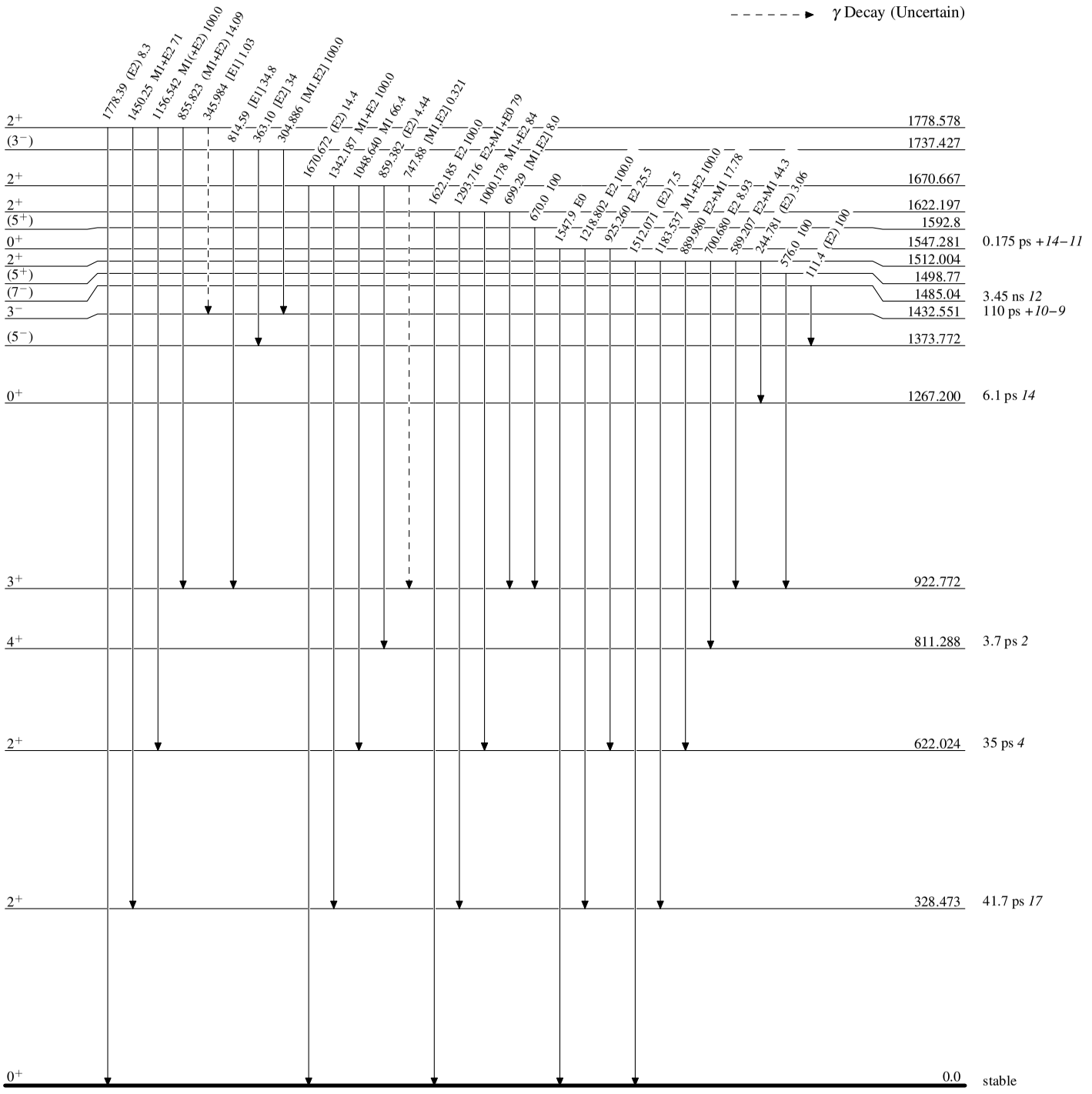


$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

Level Scheme (continued)

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

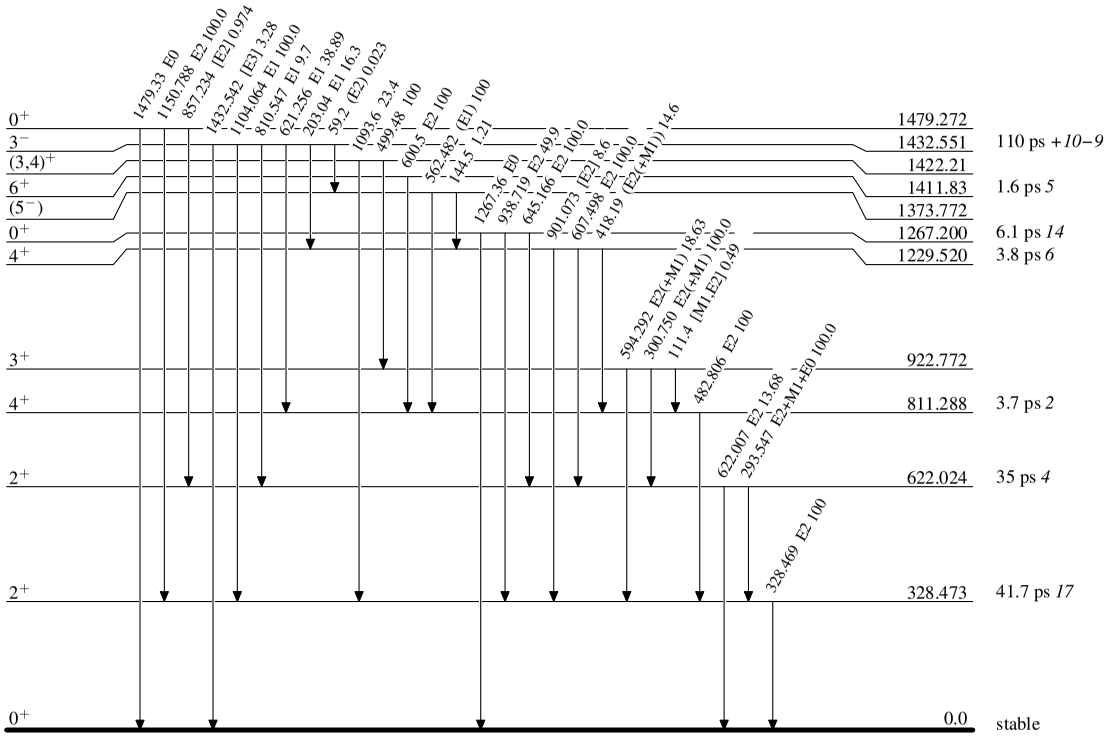


$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas

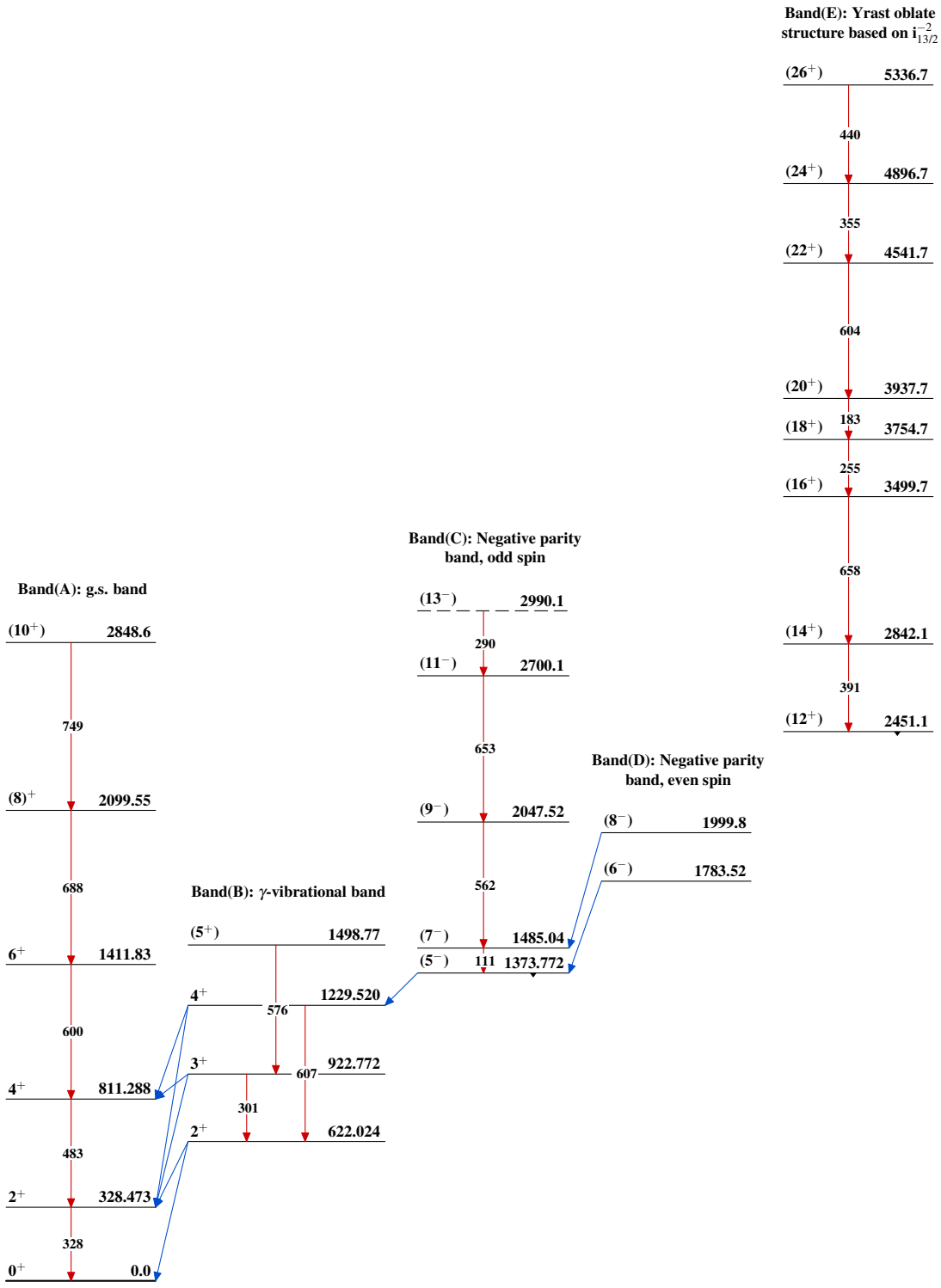
Level Scheme (continued)

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



$^{194}_{78}Pt_{116}$

Adopted Levels, Gammas



$^{194}_{78}Pt_{116}$