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^-)=2228.3 *13*; S(n)=6066.79 *11*; S(p)=6426.3 *24*; Q(α)=626 *5* 2021Wa16
S(2n)=13838.78 *23*, S(2p)=15520 *70* (2021Wa16).
See ^{193}Ir(n,γ),(n,n):Resonances dataset for 39 neutron s-wave resonances in the range of E(n)(lab)=1.298 eV to 309 eV, and 14 resonances from 315 eV to 391 eV.
Theoretical references: consult the NSR database (www.nndc.bnl.gov/nsr/) for nine references dealing with nuclear structure calculations.
Additional information 1.
Other measurements:
2016Bu03 measured a resonance at E_{res}=2.65 eV *61*.
2004Be49 measured high-spin isomer yields via ^{195}Pt(γ,p) and ^{193}Ir(n,γ).
2003Ga51 measured isomer yield ratios via ^{193}Ir(n,γ).

^{194}Ir Levels

Band assignments are from 2008Ba25 in (n,γ) E=th.

Cross Reference (XREF) Flags

A	^{194}Os β^- decay (6.0 y)	E	^{193}Ir(n,γ),(n,n):resonances
B	^{194}Ir IT decay (31.85 ms)	F	^{193}Ir(d,p)
C	^{193}Ir(n,γ) E=th	G	^{196}Pt(pol d,α)
D	^{193}Ir(n,γ) E=2,24 keV		

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$	XREF	Comments
0.0[#]	1$^-$	19.18 h *3*	ABCD FG	%β^-=100 μ=+0.39 *1* (1982Ha28,1991Sc28,2019StZV) Q=+0.339 *12* (1985Ed02,1982Ha28,2016St14) $T_{1/2}$: weighted average (NRM) of 19.20 h *2* (2016Kr06, decay curve for 328γ recorded for 2.5 half-lives, uncertainty was increased to 0.03 to bring down the relative weight to 50%); 19.15 h *3* (1972Ge10); 19.41 h *1* (1972Em01, uncertainty got increased to 0.10 in the NRM procedure); 19.0 h *2* (1947Go01). Other measurements: 17.4 h *1* (1964Pe18), 19.7 h *7* (1958Gu09), 20.7 h *5* (1947Se33), 19.5 h (1941Wi07), 19.5 h (1938Ja01), 1935Am01. Weighted average of the four values is 19.37 h *5*, but with reduced χ^2=35. The unweighted average of these values is 19.19 h *9*. J$^\pi$: spin from atomic-beam method (1963Do13). Parity from L(d,p)=1 from 3/2$^+$ target. μ: Radiation detection of nuclear magnetic resonance (1982Ha28). Other value: 0.37 *4*, low temperature nuclear orientation (1969Re06); sign of μ=+, low temperature nuclear orientation (1988Sc20,1991Sc28). Q: Radiation detection of nuclear magnetic resonance (1985Ed02,1982Ha28).
43.119[a] *1*	0$^-$		ABCD FG	J$^\pi$: M1 γ to 1$^-$; ARC in (n,γ); L(d,p)=1; J^π=0$^-$ from $\sigma(\theta)$ and $A_y(\theta)$ in (pol d,α).
82.334[a] *1*	1$^-$		ABCd	J$^\pi$: M1 γ to 0$^-$.
84.284[#] *1*	2$^-$		BCd FG	J$^\pi$: E2 γ to 0$^-$; J^π=2$^-$ from $\sigma(\theta)$ and $A_y(\theta)$ in (pol d,α).
112.230[a] *1*	2$^-$		BCD FG	J$^\pi$: M1+E2 γs to 1$^-$ and 2$^-$; M2 γ from 4$^+$; J^π=2$^-$ from $\sigma(\theta)$ and $A_y(\theta)$ in (pol d,α).
138.687[@] *1*	1$^-$		CD FG	J$^\pi$: M1 γ to 0$^-$.
143.595[b] *1*	0$^-$		C	J$^\pi$: M1 γ to 1$^-$, possible bandhead.

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Adopted Levels, Gammas (continued)

^{194}Ir Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
147.073[g] 2	4^+	31.85 ms 24	BCd	%IT=100 Jπ: M2 γ to 2^-; absence of γ to 1^- suggests J>3. $T_{1/2}$: from 1972Br53. Others: 30 ms 2 (1968Lu01), 50 ms (1962Fe02), 32 ms 2 (1961Al21), 1959Ca13.
148.934[e] 1	$(3)^-$		Cd FG	Jπ: E2 γ to 1^-; M1 γ to 2^-; 2^-,(3^-) in (pol d,α).
160.999[&] 1	1^-		CD F	Jπ: M1 γ to 0^-.
161.5 3	(5^+)		C G	Jπ: from σ(θ) and $A_y(\theta)$ in (pol d,α). $J^\pi=4^-$ is less likely but cannot be rejected.
184.689[#] 1	3^-		CD F	Jπ: E2 γ to 1^-; M1+E2 γs to 2^- and $(3)^-$.
190.0+x	(10,11)	171 d 11		%β^-=100 $T_{1/2}$: from 1968Su02. Jπ: β^- decay is mainly to the 2438 level with $J^\pi=(8^+,9^+,10^+)$, with no significant feeding to levels with $J^\pi\leq(9^-)$. 1968Su02 pointed out that $J^\pi=11^-$ would result from configuration=ν11/2[605]⊗π11/2[505]. E(level): x=50 keV to 250 keV. From an estimate of β- end-point energy x≤250 keV (1968Su02). Log *ft*≥5.0 for feeding to 2438 level gives x≥50.
195.526[b] 1	2^-		CD FG	Jπ: E2 γ to 0^-; $J^\pi=2^-$ from σ(θ) and $A_y(\theta)$ in (pol d,α).
235.8 6			G	
245.110[a] 1	$(3)^-$		Cd F	Jπ: E2 γs to 1^-; E2+M1 γs to 2^-.
245.492[c] 2	(0^-)		Cd	Jπ: (M1) γ to 1^-.
254.161[@] 1	2^-		CD FG	Jπ: M1+E2 γs to 3^- and 1^-; $J^\pi=2^-$ from σ(θ) and $A_y(\theta)$ in (pol d,α).
263.798 3	$(4)^+$		C	Jπ: M1+E2 γs to 4^+ and 5^+.
270.918 2	$(3)^+$		C G	Jπ: E2 γ to (5^+), M1+E2 γ to 4^+. $J^\pi=(2^-,3^+)$ from σ(θ) and $A_y(\theta)$ in (pol d,α).
278.504 1	$(2)^-$		CD F	Jπ: M1 γ to 1^-; M1+E2 γ to $(3)^-$.
293.241 3	$(3,4,5)^+$		C	Jπ: M1 γ to 4^+.
296.630[#] 2	4^-		C FG	Jπ: E2 γ to 2^-; M1 γ to 3^-; $J^\pi=4^-$ from σ(θ) and $A_y(\theta)$ in (pol d,α).
308.973[b] 1	1^-		CD F	Jπ: M1 γ to 0^-.
314.054[&] 1	2^-		CD FG	Jπ: M1 γs to 3^- and 1^-; 2^- from σ(θ) and $A_y(\theta)$ in (pol d,α).
337.525[c] 2	1^-		Cd f	Jπ: M1 γ to 0^-.
337.648[c] 2	2^-		Cd fG	Jπ: E2 γ to 0^-; $J^\pi=2^-$ from σ(θ) and $A_y(\theta)$ in (pol d,α).
347.055 3	3^-		CD FG	Jπ: E2 γ to 1^-, M1+E2 γ to 3^-; $J^\pi=(2^-,3^-)$ from σ(θ) and $A_y(\theta)$ in (pol d,α).
361.382 4	$(3)^+$		C	Jπ: M1 γs to 4^+ and $(3,4)^+$; 105.8γ from 2^-.
374.8 6	$(4^-,5^+)$		G	Jπ: σ(θ) and $A_y(\theta)$ in (pol d,α).
377.006 2	$(3)^-$		CD F	Jπ: E2 γ to 1^-; M1+E2 γ to $(3)^-$.
390.963[d] 2	$(1,2)^-$		CD F	XREF: F(388.0). Jπ: M1+E2 γs to 1^- and 2^-.
394.880[e] 2	4^-		C FG	XREF: G(393.3). Jπ: E2 γ to 2^-; M1+E2 γ to 3^-; 3^+,4^- in (pol d,α) from σ(θ) and $A_y(\theta)$.
407.017 2	3^+		C G	Jπ: M1 γs to 4^+ and $(3,4)^+$; γ to 2^-; $J^\pi=3^+$ from σ(θ) and $A_y(\theta)$ in (pol d,α).
416.589 2	$(4)^-$		C G	Jπ: E1 γ to 4^+; (M1) γ to 3^-; (4^-) from σ(θ) and $A_y(\theta)$ in (pol d,α).
419.611[@] 2	$(3)^-$		Cd F	Jπ: M1 γ to 2^-; γs to 1^- and 4^+.
423.725 2	$(2)^-$		Cd F	Jπ: M1+E2 γs to 1^- and 2^-; no γ to 0^-.
436.295 2	2^-		CD FG	Jπ: M1+E2 γs to 1^- and 2^-; 2^- from σ(θ) and $A_y(\theta)$ in (pol d,α).
467.207 3	2^-		C FG	Jπ: E2 γ to 0^-.
486.064 2	2^-		C F	Jπ: E2 γ to 0^-.
489.648 2	2^-		CD FG	Jπ: M1 γs to 1^- and 3^-; 2^- from σ(θ) and $A_y(\theta)$ in (pol d,α).
500.218[&] 3	$(3)^-$		C FG	Jπ: M1+E2 γ to 3^-; M1 γ to 2^-; E1 γ to $(3,4)^+$; $(3^-,4^+)$ from σ(θ) and $A_y(\theta)$ in (pol d,α).
501.814 3	$(2)^-$		CD F	Jπ: M1 γs to 1^- and 2^-; M1+E2 γ to $(3)^-$.
518.575[f] 2	2^+		C f	Jπ: E2 γ to 4^+; E1 γs to 1^- and 3^-.

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Adopted Levels, Gammas (continued)

^{194}Ir Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
519.517 *3*	$(3)^+$	C fG	Jπ: M1 γs to 4^+ and $(3)^+$; γ to 2^-; (4^+) or (3^+) from σ(θ) and $A_y(\theta)$ in (pol d,α).
519.788 *2*	3^-	C f	Jπ: M1 γs to 2^- and 4^-.
534.9 *9*		F	
542.588 *2*	$(2)^+$	C	Jπ: E1 γs to 1^- and 2^-; no γ to 0^-.
544.676 *2*	2^-	CD FG	Jπ: M1 γs to 1^- and 2^-; γ to 4^-; 2^- from σ(θ) and $A_y(\theta)$ in (pol d,α) for a 544.4 group.
547.6 *12*		C	
556.374 *3*	$(3)^-$	C F	Jπ: M1 γ to 2^-; E1 γ to $(3)^+$; doubly-placed γ to 4^+.
561.855[g] *4*	$(5)^+$	C G	Jπ: M1 γ to 4^+; (5^+) from σ(θ) and $A_y(\theta)$ in (pol d,α).
570.9 *4*		F	
574.6 *7*	(2^-)	G	Jπ: σ(θ) and $A_y(\theta)$ in (pol d,α).
578.499[d] *3*	3^-	C F	Jπ: E1 γ to 4^+; M1 γ to 2^-.
579.147 *2*	$(2)^-$	CD	Jπ: M1 γs to 1^- and 2^-; doubly-placed M1 γ to 3^-; L(d,p)=1 from $3/2^+$ target.
590.727 *7*	$(2,3)^+$	C FG	XREF: F(591.5). Jπ: E1 γ to $(3)^-$; doubly-placed γ to 2^-. (2^-) in (pol d,α) for a 590.7 level is in disagreement if the levels are the same.
599.405 *2*	$(2,3)^-$	C F	Jπ: M1 γs to 2^- and $(3)^-$.
605.532 *3*	$(3)^-$	C FG	XREF: F(604.4)G(604.1). Jπ: M1 γs to 3^- and $(2)^-$; γ to 4^+,5^+. J^π=$(3^+,4^-)$ in (pol d,α) is in disagreement.
613.087 *4*	$(2,3,4)^-$	C	Jπ: E1 γ to $(3)^+$; γ to 4^-.
620.522 *6*	$(4)^-$	C FG	Jπ: M1+E2 γ to 3^-; J^π=4^-,5^+ from σ(θ) and $A_y(\theta)$ in (pol d,α).
638.775 *3*	$2^-,3^-$	C	Jπ: M1+E2 γs to 2^- and 3^-.
639.394 *3*	$(2)^-$	C FG	Jπ: M1 γ to 1^-; γ to $(3)^-$; doubly-placed (E2) γ to 0^-. 5^+,(4^-) from σ(θ) and $A_y(\theta)$ in (pol d,α) for a 639.6 level is in disagreement if the levels are the same.
646.539 *6*	$(3,4)^+$	C	Jπ: M1+E2 γs to 4^+ and $(3)^+$.
656.42 *22*		C F	XREF: F(657.3).
662.3 *4*	(4^-)	C G	XREF: C(661). E(level),Jπ: from (pol d,α), J^π=(4^-) from σ(θ) and $A_y(\theta)$.
669.369 *6*	$(3)^-$	C FG	XREF: F(667.9). Jπ: M1 γs to 3^- and 4^-; γ to $(2)^+$. J^π=4^-,(3^+) from σ(θ) and $A_y(\theta)$ for 669.2 level in (pol d, α) is in disagreement if the level is the same as in (n,γ).
670.121 *4*	$(2)^-$	C	Jπ: M1 γs to 1^- and $(3)^-$; M1+E2 γ to $(2)^-$.
677.8 *3*		F	
680.8 *9*		C	
686.9 *14*	(1^-)	G	Jπ: from σ(θ) and $A_y(\theta)$ in (pol d,α).
690.0 *12*		C F	XREF: F(690.5).
698.7 *8*		C F	XREF: F(698.0).
708.546 *4*	$(2)^-$	C FG	Jπ: M1 γ to 1^-; M1+E2 γ to $(3)^-$; (2^-) from σ(θ) and $A_y(\theta)$ in (pol d,α).
718.5 *4*	4^-	FG	Jπ: σ(θ) and $A_y(\theta)$ in (pol d,α).
722.760[f] *4*	3^+	C	Jπ: M1 γs to 2^+ and 4^+.
738.345 *4*	$(3)^+$	C	Jπ: M1+E2 γ to $(3)^+$; γs to 2^- and 5^+.
748.9 *4*	2^-	FG	Jπ: σ(θ) and $A_y(\theta)$ in (pol d,α).
751.3 *7*		C	
758.4 *13*		C	
761.8 *9*	(4^-)	C FG	XREF: F(762.7)G(761.0). Jπ: σ(θ) and $A_y(\theta)$ in (pol d,α).
766.4 *13*		C	
775.5 *5*		C F	XREF: F(773.8).
784.9 *7*		C F	XREF: F(784.3).
801.9 *10*		C F	XREF: F(801.6).
805.6 *9*		C	
813.4 *3*		F	
820.1 *10*		C	
823.3 *3*		F	
835.1 *6*		C F	
858.8 *3*		F	
861.8 *8*		C	

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Adopted Levels, Gammas (continued)

^{194}Ir Levels (continued)

E(level)†	XREF	Comments
877.2 *10*	C F	XREF: F(876.8).
881.8 *6*	C F	XREF: F(883.2).
886.0 *6*	C	
891.9 *4*	F	
897.7 *10*	C	
901.3 *3*	F	
908.3 *6*	C F	XREF: F(908.4).
924.1 *6*	F	
926.6 *9*	C	
934.0 *8*	F	
937.8 *8*	C	
950.5? *16*	C	
954.6 *4*	F	
957.0 *6*	C	
962.2 *6*	F	
969.2 *16*	C	XREF: C(?).
976.1 *7*	C	
994.8 *6*	C	
1001.2 *4*	F	
1008.3 *7*	C	
1029.6 *23*	F	
1038.5 *5*	C	
1044.5 *8*	F	
1052.3 *9*	C	
1060.2 *7*	C	
1062.5 *4*	F	
1074.9 *11*	C F	XREF: F(1074.0).
1087.2 *8*	C F	XREF: F(1087.5).
1095.6 *7*	F	
1099.1 *7*	C	
1105.8 *4*	F	
1114.4 *8*	C F	XREF: F(1115.2).
1122.1 *4*	F	
1135.9 *9*	C F	XREF: F(1134.5).
1145.6 *7*	C F	XREF: F(1146.7).
1161.7 *3*	F	
1174.3 *10*	C	
1179.6 *3*	F	
1191.3 *12*	C	
1198.10 *24*	F	
1211.2 *6*	C F	XREF: F(1211.1).
1222.7 *4*	F	
1227.4 *5*	C	
1234.6 *6*	F	
1239.5 *7*	C	
1249.8 *5*	F	
1258.4 *7*	C F	XREF: F(1258.0).
1272.0 *7*	C	
1281.5 *9*	C	
1288.0? *17*	C	
1311.9 *5*	C	
1323.8 *9*	C	
1332.2 *8*	C	
1352.8 *7*	C	
1368.6 *15*	C	
1377? *3*	C	
1389.1 *7*	C	

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Adopted Levels, Gammas (continued)

^{194}Ir Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
1400.9 *7*		C	
1423.3 *7*		C	
1440? *4*		C	
1446? *3*		C	
1454.2 *8*		C	
1466.9 *7*		C	
1482.1 *7*		C	
1489.4 *7*		C	
1506.9 *21*		C	
1520.7 *11*		C	
1542.3 *7*		C	
1561.4 *7*		C	
1571.9 *7*		C	
1579.3 *7*		C	
1594.2 *6*		C	
1604.9 *9*		C	
1612.1 *7*		C	
1624.3 *6*		C	
1631.7 *13*		C	
1641.8 *10*		C	
1654.1 *10*		C	
1665.2 *11*		C	
1672.1 *10*		C	
1684.8 *14*		C	
1695.4 *14*		C	
1702.5 *9*		C	
(6066.79 *11*)	$1^+,2^+$	C	
(6068.8 *4*)	$(1^+,2^+)$	D	E(level): S(n)+E(n), S(n)=6066.79 *11* (2021Wa16), E(n)=2 keV. Jπ: probable s-wave capture in ^{193}Ir g.s., $J^\pi=3/2^+$.
(6090.8 *4*)	$(0^-,1,2,3^-)$	D	E(level): S(n)+E(n), S(n)=6066.79 *11* (2021Wa16), E(n)=24 keV. Jπ: p-wave and s-wave capture in ^{193}Ir g.s., $J^\pi=3/2^+$.

[†] Below 542 keV, energies are from a least-squares fit to γ-ray energies, above 542 keV energies are from primary γ rays in ^{193}Ir(n,γ) E=th (using S(n)=6066.79 *11*), unless otherwise specified.

[‡] From multipolarity assignments in (n,γ) E=th and average resonance capture (ARC) data in E(n)=2,24 keV. For some levels L(d,p) and (pol d,α) data support the assignments from (n,γ). Levels populated by primary γ rays only have J≤3 (capture state has $J^\pi=1^+,2^+$). The L-transfer in (d,p) is from $3/2^+$, ^{193}Ir target. See individual levels for detailed arguments.

[#] Band(A): $K^\pi=1^-$, g.s. band.

[@] Band(B): $K^\pi=1^-$, based on 138.7 level.

[&] Band(C): $K^\pi=1^-$, based on 161.0 level.

[a] Band(D): $K^\pi=0^-$, based on 43.1 level.

[b] Band(E): $K^\pi=0^-$, based on 143.6 level.

[c] Band(F): $K^\pi=0^-$, based on 245.5 level.

[d] Band(G): $K^\pi=2^-$, based on 391.0 level.

[e] Band(H): $K^\pi=3^-$, based on 148.9 level.

[f] Band(I): $K^\pi=2^+$, based on 518.6 level.

[g] Band(J): $K^\pi=4^+$, based on 147.1 level.

Adopted Levels, Gammas (continued)

γ(^{194}Ir)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
43.119	0⁻	43.119 *1*	100	0.0	1⁻	M1		12.59 *18*	α(L)=9.70 *14*; α(M)=2.236 *31* α(N)=0.550 *8*; α(O)=0.0973 *14*; α(P)=0.00732 *10*
82.334	1⁻	39.217 *1*	34.7 *23*	43.119	0⁻	M1		16.66 *23*	α(L)=12.84 *18*; α(M)=2.96 *4* α(N)=0.727 *10*; α(O)=0.1287 *18*; α(P)=0.00968 *14*
		82.339 *2*	100.0 *19*	0.0	1⁻	M1+E2	0.105 *10*	10.67 *15*	α(K)=8.69 *12*; α(L)=1.522 *25*; α(M)=0.353 *6* α(N)=0.0867 *14*; α(O)=0.01522 *24*; α(P)=0.001091 *15*
84.284	2⁻	41.166 *10*	0.4	43.119	0⁻	E2		276 *4*	α(L)=208.2 *29*; α(M)=53.2 *7* α(N)=12.82 *18*; α(O)=1.939 *27*; α(P)=0.001714 *24*
		84.288 *2*	100 *6*	0.0	1⁻	M1+E2	0.49 *2*	9.88 *14*	α(K)=6.79 *13*; α(L)=2.36 *7*; α(M)=0.577 *19* α(N)=0.140 *5*; α(O)=0.0229 *7*; α(P)=0.000857 *17*
112.230	2⁻	27.93 *3*	0.26 *6*	84.284	2⁻	M1+E2	0.26 *1*	161 *9*	α(L)=122 *7*; α(M)=30.3 *17* α(N)=7.3 *4*; α(O)=1.16 *6*; α(P)=0.0254 *4*
		29.890 *6*	2.01 *17*	82.334	1⁻	M1+E2	0.070 *4*	43.5 *10*	α(L)=33.4 *7*; α(M)=7.83 *18* α(N)=1.92 *4*; α(O)=0.331 *7*; α(P)=0.02153 *30*
		112.230 *1*	100.0 *17*	0.0	1⁻	E2+M1	1.64 *10*	3.30 *6*	α(K)=1.45 *8*; α(L)=1.402 *34*; α(M)=0.356 *9* α(N)=0.0862 *22*; α(O)=0.01340 *32*; α(P)=0.000172 *10*
138.687	1⁻	26.434 *15*	1.87 *23*	112.230	2⁻	M1		53.5 *8*	α(L)=41.2 *6*; α(M)=9.51 *13* α(N)=2.337 *33*; α(O)=0.413 *6*; α(P)=0.0311 *4*
		54.404 *1*	15.2 *15*	84.284	2⁻	M1+E2	0.051 *4*	6.52 *10*	α(L)=5.02 *7*; α(M)=1.161 *17* α(N)=0.285 *4*; α(O)=0.0503 *7*; α(P)=0.00369 *5*
		56.355 *2*	6.1 *6*	82.334	1⁻	M1+E2	0.61 *18*	20 *6*	α(L)=15 *5*; α(M)=3.9 *12* α(N)=0.94 *29*; α(O)=0.15 *4*; α(P)=0.00256 *33*
		95.575 *3*	100 *5*	43.119	0⁻	M1		6.97 *10*	α(K)=5.74 *8*; α(L)=0.947 *13*; α(M)=0.2182 *31* α(N)=0.0536 *8*; α(O)=0.00950 *13*; α(P)=0.000715 *10*
		138.686 *1*	100.0 *20*	0.0	1⁻	E2+M1	1.45 *10*	1.64 *4*	α(K)=0.92 *5*; α(L)=0.545 *13*; α(M)=0.1369 *35* α(N)=0.0332 *8*; α(O)=0.00525 *12*; α(P)=0.000107 *7*
143.595	0⁻	61.225 *3*	6.1 *11*	82.334	1⁻	M1		4.50 *6*	α(L)=3.46 *5*; α(M)=0.798 *11* α(N)=0.1962 *27*; α(O)=0.0347 *5*; α(P)=0.00261 *4* E_γ: uncertainty increased to 0.030 keV from 0.003 in the fitting procedure.
		143.594 *1*	100.0 *15*	0.0	1⁻	M1		2.180 *31*	α(K)=1.798 *25*; α(L)=0.294 *4*; α(M)=0.0678 *9* α(N)=0.01666 *23*; α(O)=0.00295 *4*; α(P)=0.0002222 *31*
147.073	4⁺	34.829 *10*	6.0[‡] *4*	112.230	2⁻	M2		1837 *26*	B(M2)(W.u.)=0.000135 *17* α(L)=1368 *19*; α(M)=362 *5* α(N)=90.6 *13*; α(O)=15.37 *22*; α(P)=0.871 *12*
		62.793 *3*	100[‡] *13*	84.284	2⁻	M2		129.0 *18*	B(M2)(W.u.)=0.000119 *22* α(L)=96.7 *14*; α(M)=24.94 *35* α(N)=6.22 *9*; α(O)=1.064 *15*; α(P)=0.0640 *9*
148.934	(3)⁻	64.647 *10*	12.2	84.284	2⁻	M1		3.83 *5*	α(L)=2.95 *4*; α(M)=0.681 *10* α(N)=0.1674 *23*; α(O)=0.0296 *4*; α(P)=0.002229 *31*
		148.934 *1*	100.0 *25*	0.0	1⁻	E2		0.980 *14*	α(K)=0.352 *5*; α(L)=0.473 *7*; α(M)=0.1209 *17* α(N)=0.0293 *4*; α(O)=0.00451 *6*; α(P)=3.50×10^{-5} *5*

$^{194}_{77}Ir_{117}$-6

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
160.999	1⁻	22.264 *14*	5.4 *6*	138.687	1⁻	M1		88.9 *13*	α(L)=68.5 *10*; α(M)=15.82 *22* α(N)=3.89 *5*; α(O)=0.688 *10*; α(P)=0.0517 *7* E_γ: uncertainty increased to 0.042 keV from 0.014 in the fitting procedure.
		48.71 *3*	4.9 *11*	112.230	2⁻	M1+E2	1.7 *5*	92 *17*	α(L)=70 *13*; α(M)=17.8 *33* α(N)=4.3 *8*; α(O)=0.65 *12*; α(P)=0.0019 *7*
		78.666 *2*	13.4 *22*	82.334	1⁻	M1		12.11 *17*	α(K)=9.94 *14*; α(L)=1.666 *23*; α(M)=0.384 *5* α(N)=0.0944 *13*; α(O)=0.01671 *23*; α(P)=0.001258 *18*
		117.880 *2*	100 *3*	43.119	0⁻	M1		3.82 *5*	α(K)=3.15 *4*; α(L)=0.517 *7*; α(M)=0.1192 *17* α(N)=0.0293 *4*; α(O)=0.00519 *7*; α(P)=0.000391 *5*
		160.996 *2*	97.3 *22*	0.0	1⁻	M1+E2	0.50 *6*	1.41 *4*	α(K)=1.10 *4*; α(L)=0.237 *6*; α(M)=0.0563 *16* α(N)=0.0138 *4*; α(O)=0.00235 *5*; α(P)=0.000134 *5*
184.689	3⁻	35.72 *3*	1.14 *18*	148.934	(3)⁻	M1+E2	0.16 *1*	35.3 *17*	α(L)=26.9 *13*; α(M)=6.47 *34* α(N)=1.58 *8*; α(O)=0.262 *12*; α(P)=0.01252 *18*
		100.407 *2*	14.1 *10*	84.284	2⁻	M1+E2	1.72 *+18−15*	4.92 *9*	α(K)=1.82 *15*; α(L)=2.34 *8*; α(M)=0.596 *21* α(N)=0.144 *5*; α(O)=0.0223 *7*; α(P)=0.000224 *19*
		184.687 *2*	100.0 *18*	0.0	1⁻	E2		0.454 *6*	α(K)=0.2080 *29*; α(L)=0.1853 *26*; α(M)=0.0471 *7* α(N)=0.01142 *16*; α(O)=0.001776 *25*; α(P)=2.081×10^{-5} *29*
195.526	2⁻	46.50 *5*	3.4 *9*	148.934	(3)⁻	M1		10.08 *14*	α(L)=7.77 *11*; α(M)=1.790 *26* α(N)=0.440 *6*; α(O)=0.0779 *11*; α(P)=0.00586 *8*
		56.844 *2*	18.4 *19*	138.687	1⁻	M1+E2	0.071 *15*	5.85 *15*	α(L)=4.50 *11*; α(M)=1.043 *28* α(N)=0.256 *7*; α(O)=0.0450 *10*; α(P)=0.00323 *5*
		83.291 *7*	10.8 *25*	112.230	2⁻	M1		10.33 *14*	α(K)=8.50 *12*; α(L)=1.411 *20*; α(M)=0.325 *5* α(N)=0.0799 *11*; α(O)=0.01415 *20*; α(P)=0.001065 *15*
		111.246 *4*	9.1 *11*	84.284	2⁻	M1+E2	1.33 *+25−19*	3.55 *12*	α(K)=1.76 *23*; α(L)=1.35 *9*; α(M)=0.342 *24* α(N)=0.083 *6*; α(O)=0.0130 *8*; α(P)=0.000212 *30*
		113.192 *4*	13.4 *9*	82.334	1⁻	M1+E2	1.15 *+17−14*	3.44 *11*	α(K)=1.88 *19*; α(L)=1.18 *7*; α(M)=0.297 *19* α(N)=0.072 *5*; α(O)=0.0114 *7*; α(P)=0.000227 *25*
		152.405 *2*	100.0 *19*	43.119	0⁻	E2		0.900 *13*	α(K)=0.334 *5*; α(L)=0.427 *6*; α(M)=0.1092 *15* α(N)=0.0264 *4*; α(O)=0.00408 *6*; α(P)=3.31×10^{-5} *5*
		195.519 *3*	56.9 *15*	0.0	1⁻	E2		0.373 *5*	α(K)=0.1800 *25*; α(L)=0.1456 *20*; α(M)=0.0369 *5* α(N)=0.00896 *13*; α(O)=0.001396 *20*; α(P)=1.813×10^{-5} *25*
245.110	(3)⁻	49.52 *7*	2.5 *10*	195.526	2⁻	M1		8.38 *12*	α(L)=6.46 *9*; α(M)=1.488 *22* α(N)=0.366 *5*; α(O)=0.0647 *9*; α(P)=0.00487 *7*
		96.172 *4*	9.1 *15*	148.934	(3)⁻	M1+E2	1.7 *+5−3*	5.79 *15*	α(K)=2.0 *4*; α(L)=2.83 *22*; α(M)=0.72 *6* α(N)=0.175 *14*; α(O)=0.0269 *21*; α(P)=0.00025 *5*
		132.883 *2*	51.8 *16*	112.230	2⁻	E2+M1	2.8 *3*	1.64 *4*	α(K)=0.66 *5*; α(L)=0.740 *15*; α(M)=0.189 *4* α(N)=0.0457 *9*; α(O)=0.00707 *14*; α(P)=7.2×10^{-5} *6*
		160.825 *2*	100 *3*	84.284	2⁻	E2+M1	1.6 *3*	0.98 *8*	α(K)=0.58 *9*; α(L)=0.302 *12*; α(M)=0.0757 *35* α(N)=0.0184 *8*; α(O)=0.00292 *11*; α(P)=6.6×10^{-5} *12*
		162.774 *2*	70.6 *21*	82.334	1⁻	E2		0.709 *10*	α(K)=0.285 *4*; α(L)=0.320 *4*; α(M)=0.0816 *11* α(N)=0.01977 *28*; α(O)=0.00306 *4*; α(P)=2.82×10^{-5} *4*
		245.115 *3*	41.5 *17*	0.0	1⁻	E2		0.1767 *25*	α(K)=0.1006 *14*; α(L)=0.0576 *8*; α(M)=0.01448 *20* α(N)=0.00351 *5*; α(O)=0.000554 *8*; α(P)=1.048×10^{-5} *15*

$^{194}_{77}Ir_{117}$-7

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
245.492	(0⁻)	245.491 *2*	100	0.0	1⁻	(M1)		0.486 *7*	α(K)=0.402 *6*; α(L)=0.0651 *9*; α(M)=0.01499 *21* α(N)=0.00369 *5*; α(O)=0.000653 *9*; α(P)=4.93×10^{-5} *7*
254.161	2⁻	69.460 *7*	5.3 *13*	184.689	3⁻	M1+E2	1.5 *+5−3*	16.0 *20*	α(L)=12.0 *15*; α(M)=3.1 *4* α(N)=0.74 *10*; α(O)=0.114 *14*; α(P)=0.00072 *17*
		93.166 *2*	73.8 *20*	160.999	1⁻	M1		7.50 *11*	α(K)=6.18 *9*; α(L)=1.020 *14*; α(M)=0.2349 *33* α(N)=0.0578 *8*; α(O)=0.01023 *14*; α(P)=0.000770 *11*
		115.473 *1*	100.0 *25*	138.687	1⁻	M1+E2	0.12 *2*	4.03 *6*	α(K)=3.30 *5*; α(L)=0.562 *9*; α(M)=0.1301 *22* α(N)=0.0320 *5*; α(O)=0.00563 *9*; α(P)=0.000409 *6*
		169.874 *2*	32.2 *15*	84.284	2⁻	M1		1.356 *19*	α(K)=1.119 *16*; α(L)=0.1826 *26*; α(M)=0.0421 *6* α(N)=0.01034 *14*; α(O)=0.001831 *26*; α(P)=0.0001380 *19*
		171.835 *4*	10.3 *5*	82.334	1⁻	M1		1.313 *18*	α(K)=1.083 *15*; α(L)=0.1768 *25*; α(M)=0.0407 *6* α(N)=0.01001 *14*; α(O)=0.001773 *25*; α(P)=0.0001336 *19*
263.798	(4)⁺	102.267 *8*	23 *7*	161.5	(5⁺)	M1+E2	0.6 *+4−5*	5.3 *4*	α(K)=3.7 *10*; α(L)=1.3 *5*; α(M)=0.31 *13* α(N)=0.075 *30*; α(O)=0.012 *4*; α(P)=4.6×10^{-4} *13*
		116.726 *3*	100 *6*	147.073	4⁺	M1+E2	0.38 *+18−26*	3.75 *17*	α(K)=2.91 *30*; α(L)=0.64 *10*; α(M)=0.153 *27* α(N)=0.037 *7*; α(O)=0.0064 *9*; α(P)=0.00036 *4*
270.918	(3)⁺	109.400 *3*	6.1 *3*	161.5	(5⁺)	E2		3.21 *4*	α(K)=0.664 *9*; α(L)=1.914 *27*; α(M)=0.492 *7* α(N)=0.1190 *17*; α(O)=0.01817 *25*; α(P)=7.33×10^{-5} *10*
		123.845 *1*	100 *3*	147.073	4⁺	M1+E2	0.12 *2*	3.30 *5*	α(K)=2.71 *4*; α(L)=0.458 *7*; α(M)=0.1059 *17* α(N)=0.0260 *4*; α(O)=0.00459 *7*; α(P)=0.000335 *5*
278.504	(2)⁻	117.503 *4*	1.60 *16*	160.999	1⁻	M1		3.86 *5*	α(K)=3.18 *4*; α(L)=0.522 *7*; α(M)=0.1203 *17* α(N)=0.0296 *4*; α(O)=0.00524 *7*; α(P)=0.000394 *6*
		129.571[@] *5*	<1.34[@]	148.934	(3)⁻	M1+E2	1.3 *+6−4*	2.12 *23*	α(K)=1.20 *35*; α(L)=0.70 *9*; α(M)=0.176 *25* α(N)=0.043 *6*; α(O)=0.0067 *8*; α(P)=1.4×10^{-4} *5*
		139.804 *6*	1.00 *16*	138.687	1⁻	M1		2.352 *33*	α(K)=1.940 *27*; α(L)=0.317 *4*; α(M)=0.0731 *10* α(N)=0.01798 *25*; α(O)=0.00318 *4*; α(P)=0.0002398 *34*
		166.275 *3*	5.16 *16*	112.230	2⁻	M1		1.440 *20*	α(K)=1.188 *17*; α(L)=0.1940 *27*; α(M)=0.0447 *6* α(N)=0.01098 *15*; α(O)=0.001945 *27*; α(P)=0.0001466 *21*
		194.217 *3*	2.56 *14*	84.284	2⁻	M1+E2	0.39 *+22−39*	0.86 *8*	α(K)=0.69 *8*; α(L)=0.128 *4*; α(M)=0.0300 *13* α(N)=0.00737 *31*; α(O)=0.001279 *31*; α(P)=8.5×10^{-5} *11*
		278.502 *3*	100.0 *25*	0.0	1⁻	M1+E2	0.36 *+16−22*	0.318 *23*	α(K)=0.260 *21*; α(L)=0.0447 *13*; α(M)=0.01037 *23* α(N)=0.00255 *6*; α(O)=0.000447 *14*; α(P)=3.17×10^{-5} *27*
293.241	(3,4,5)⁺	146.169 *2*	100	147.073	4⁺	M1		2.073 *29*	α(K)=1.710 *24*; α(L)=0.280 *4*; α(M)=0.0644 *9* α(N)=0.01584 *22*; α(O)=0.00280 *4*; α(P)=0.0002113 *30*
296.630	4⁻	42.48 *3*	23 *5*	254.161	2⁻	[E2]		236.7 *34*	α(L)=178.4 *26*; α(M)=45.6 *7* α(N)=11.00 *16*; α(O)=1.663 *24*; α(P)=0.001488 *21*
		111.938 *6*	18 *3*	184.689	3⁻	M1		4.43 *6*	α(K)=3.65 *5*; α(L)=0.600 *8*; α(M)=0.1383 *19* α(N)=0.0340 *5*; α(O)=0.00602 *8*; α(P)=0.000453 *6*
		184.407 *9*	18 *4*	112.230	2⁻	E2		0.456 *6*	α(K)=0.2088 *29*; α(L)=0.1865 *26*; α(M)=0.0474 *7* α(N)=0.01150 *16*; α(O)=0.001787 *25*; α(P)=2.089×10^{-5} *29*
		212.346 *2*	100.0 *24*	84.284	2⁻	E2		0.282 *4*	α(K)=0.1457 *20*; α(L)=0.1031 *14*; α(M)=0.0261 *4* α(N)=0.00633 *9*; α(O)=0.000990 *14*; α(P)=1.484×10^{-5} *21*

$^{194}_{77}Ir_{117}$-8

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
308.973	1⁻	113.447 *1*	16.4 *5*	195.526	2⁻	M1		4.27 *6*	α(K)=3.52 *5*; α(L)=0.578 *8*; α(M)=0.1331 *19* α(N)=0.0327 *5*; α(O)=0.00579 *8*; α(P)=0.000436 *6*
		124.320 *25*	2.9 *12*	184.689	3⁻	E2		1.939 *27*	α(K)=0.524 *7*; α(L)=1.065 *15*; α(M)=0.273 *4* α(N)=0.0661 *9*; α(O)=0.01013 *14*; α(P)=5.39×10^{-5} *8*
		147.979 *3*	8.0 *4*	160.999	1⁻	M1		2.001 *28*	α(K)=1.651 *23*; α(L)=0.270 *4*; α(M)=0.0622 *9* α(N)=0.01529 *21*; α(O)=0.00271 *4*; α(P)=0.0002040 *29*
		165.374 *3*	47.4 *21*	143.595	0⁻	M1		1.462 *20*	α(K)=1.207 *17*; α(L)=0.1970 *28*; α(M)=0.0454 *6* α(N)=0.01115 *16*; α(O)=0.001976 *28*; α(P)=0.0001489 *21*
		170.314 *12*	4.1 *16*	138.687	1⁻	M1+E2	>1.3	0.74 *14*	α(K)=0.41 *16*; α(L)=0.247 *16*; α(M)=0.062 *5* α(N)=0.0151 *11*; α(O)=0.00238 *13*; α(P)=4.6×10^{-5} *21*
		196.639 *23*	1.8 *5*	112.230	2⁻	[M1+E2]		0.63 *27*	α(K)=0.46 *28*; α(L)=0.132 *11*; α(M)=0.032 *4* α(N)=0.0078 *10*; α(O)=0.00129 *8*; α(P)=5.E−5 *4* E_γ: uncertainty increased to 0.069 keV from 0.023 in the fitting procedure.
		226.639 *2*	34 *9*	82.334	1⁻	M1+E2	0.52 *13*	0.526 *33*	α(K)=0.421 *32*; α(L)=0.0808 *11*; α(M)=0.01898 *28* α(N)=0.00465 *7*; α(O)=0.000803 *12*; α(P)=5.1×10^{-5} *4*
		308.975 *2*	100.0 *25*	0.0	1⁻	M1+E2	0.72 *+11−10*	0.201 *12*	α(K)=0.160 *11*; α(L)=0.0308 *8*; α(M)=0.00724 *17* α(N)=0.00178 *4*; α(O)=0.000306 *9*; α(P)=1.93×10^{-5} *14*
314.054	2⁻	69.009 *24*	4.7 *19*	245.110	(3)⁻	[M1+E2]		13 *10*	α(L)=10 *7*; α(M)=2.4 *19* α(N)=0.6 *5*; α(O)=0.09 *7*; α(P)=0.0010 *8*
		129.368 *4*	6.1 *7*	184.689	3⁻	M1		2.93 *4*	α(K)=2.418 *34*; α(L)=0.396 *6*; α(M)=0.0913 *13* α(N)=0.02244 *31*; α(O)=0.00397 *6*; α(P)=0.000299 *4*
		153.054 *1*	100.0 *24*	160.999	1⁻	M1		1.819 *25*	α(K)=1.501 *21*; α(L)=0.2454 *34*; α(M)=0.0565 *8* α(N)=0.01389 *19*; α(O)=0.002461 *34*; α(P)=0.0001854 *26*
		231.751 *23*	7.7 *12*	82.334	1⁻	M1+E2	0.8 *+5−4*	0.43 *9*	α(K)=0.33 *9*; α(L)=0.0747 *15*; α(M)=0.01782 *29* α(N)=0.00436 *6*; α(O)=0.000738 *21*; α(P)=4.0×10^{-5} *12*
		314.065 *6*	53 *4*	0.0	1⁻	M1+E2	0.45 *+21−26*	0.220 *23*	α(K)=0.180 *21*; α(L)=0.0313 *15*; α(M)=0.00726 *30* α(N)=0.00178 *8*; α(O)=0.000312 *16*; α(P)=2.18×10^{-5} *26*
337.525	1⁻	92.019 *15*	7.2 *23*	245.492	(0⁻)	[M1]		7.77 *11*	α(K)=6.40 *9*; α(L)=1.057 *15*; α(M)=0.2435 *34* α(N)=0.0599 *8*; α(O)=0.01060 *15*; α(P)=0.000798 *11*
		141.95 *3*	5.7 *15*	195.526	2⁻	M1+E2	2.9 *+5−4*	1.29 *4*	α(K)=0.55 *5*; α(L)=0.556 *12*; α(M)=0.1414 *32* α(N)=0.0343 *8*; α(O)=0.00531 *11*; α(P)=5.9×10^{-5} *6*
		176.534 *4*	9.5 *8*	160.999	1⁻	M1		1.217 *17*	α(K)=1.004 *14*; α(L)=0.1638 *23*; α(M)=0.0377 *5* α(N)=0.00927 *13*; α(O)=0.001643 *23*; α(P)=0.0001238 *17*
		188.63[@] *5*	<1.2[@]	148.934	(3)⁻	[E2]		0.422 *6*	α(K)=0.1972 *28*; α(L)=0.1694 *24*; α(M)=0.0430 *6* α(N)=0.01043 *15*; α(O)=0.001624 *23*; α(P)=1.977×10^{-5} *28*
		193.928 *3*	34.6 *12*	143.595	0⁻	M1		0.935 *13*	α(K)=0.772 *11*; α(L)=0.1258 *18*; α(M)=0.0290 *4* α(N)=0.00712 *10*; α(O)=0.001261 *18*; α(P)=9.51×10^{-5} *13*
		198.834 *3*	24 *6*	138.687	1⁻	M1+E2	1.3 *+4−3*	0.55 *7*	α(K)=0.38 *7*; α(L)=0.1288 *30*; α(M)=0.0316 *10* α(N)=0.00771 *24*; α(O)=0.001254 *24*; α(P)=4.4×10^{-5} *9*
		294.41 *3*	12 *5*	43.119	0⁻	M1		0.296 *4*	α(K)=0.2446 *34*; α(L)=0.0395 *6*; α(M)=0.00908 *13* α(N)=0.002233 *31*; α(O)=0.000396 *6*; α(P)=2.99×10^{-5} *4*

$^{194}_{77}Ir_{117}$-9

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
337.525	1⁻	337.531 *4*	100.0 *23*	0.0	1⁻	M1		0.2043 *29*	α(K)=0.1690 *24*; α(L)=0.0272 *4*; α(M)=0.00625 *9* α(N)=0.001537 *22*; α(O)=0.000273 *4*; α(P)=2.064×10^{-5} *29*
337.648	2⁻	59.142 *10*	1.71	278.504	(2)⁻	M1+E2		26 *21*	α(L)=20 *16*; α(M)=5 *4* α(N)=1.2 *10*; α(O)=0.19 *15*; α(P)=0.0016 *12*
		83.42 *5*	12.6 *23*	254.161	2⁻	[M1+E2]		10.08 *25*	α(K)=5 *4*; α(L)=4.1 *27*; α(M)=1.0 *7* α(N)=0.25 *17*; α(O)=0.039 *25*; α(P)=6.E−4 *5*
		152.960 *7*	11.7 *13*	184.689	3⁻	M1+E2	1.34 *+33−24*	1.22 *9*	α(K)=0.75 *11*; α(L)=0.358 *17*; α(M)=0.089 *5* α(N)=0.0217 *12*; α(O)=0.00346 *15*; α(P)=8.7×10^{-5} *15*
		176.654 *3*	37.7 *12*	160.999	1⁻	M1		1.215 *17*	α(K)=1.002 *14*; α(L)=0.1635 *23*; α(M)=0.0377 *5* α(N)=0.00926 *13*; α(O)=0.001640 *23*; α(P)=0.0001236 *17*
		188.721 *5*	13.9 *8*	148.934	(3)⁻	M1+E2	0.5 *+4−5*	0.89 *15*	α(K)=0.71 *16*; α(L)=0.142 *8*; α(M)=0.0336 *29* α(N)=0.0082 *7*; α(O)=0.00141 *7*; α(P)=8.6×10^{-5} *21*
		225.412 *5*	28.3 *7*	112.230	2⁻	M1+E2	0.67 *+17−16*	0.50 *4*	α(K)=0.39 *4*; α(L)=0.0820 *12*; α(M)=0.01943 *31* α(N)=0.00476 *7*; α(O)=0.000812 *13*; α(P)=4.7×10^{-5} *5*
		255.313 *4*	88 *4*	82.334	1⁻	M1+E2	1.31 *+24−19*	0.259 *22*	α(K)=0.190 *21*; α(L)=0.0525 *10*; α(M)=0.01272 *20* α(N)=0.00310 *5*; α(O)=0.000514 *11*; α(P)=2.23×10^{-5} *26*
		294.531 *6*	100 *4*	43.119	0⁻	E2		0.1002 *14*	α(K)=0.0629 *9*; α(L)=0.0282 *4*; α(M)=0.00703 *10* α(N)=0.001709 *24*; α(O)=0.000273 *4*; α(P)=6.74×10^{-6} *9*
347.055	3⁻	151.526 *9*	5.3 *5*	195.526	2⁻	M1		1.872 *26*	α(K)=1.544 *22*; α(L)=0.2525 *35*; α(M)=0.0581 *8* α(N)=0.01430 *20*; α(O)=0.002532 *35*; α(P)=0.0001907 *27*
		162.366 *3*	11.3 *7*	184.689	3⁻	M1+E2	1.25 *+28−21*	1.04 *8*	α(K)=0.67 *9*; α(L)=0.278 *11*; α(M)=0.0690 *33* α(N)=0.0168 *8*; α(O)=0.00270 *10*; α(P)=7.9×10^{-5} *12*
		198.101 *5*	12.6 *7*	148.934	(3)⁻	M1+E2	0.55 *14*	0.76 *5*	α(K)=0.60 *5*; α(L)=0.1229 *24*; α(M)=0.0291 *8* α(N)=0.00712 *19*; α(O)=0.001219 *21*; α(P)=7.3×10^{-5} *7* E_γ: uncertainty increased to 0.020 keV from 0.005 in the fitting procedure.
		234.817 *2*	100.0 *21*	112.230	2⁻	M1+E2	0.76 *+15−14*	0.423 *31*	α(K)=0.329 *31*; α(L)=0.0717 *11*; α(M)=0.01706 *24* α(N)=0.00417 *6*; α(O)=0.000709 *12*; α(P)=4.0×10^{-5} *4* E_γ: uncertainty increased to 0.006 keV from 0.002 in the fitting procedure.
		264.744[&] *3*	88.5[&] *21*	82.334	1⁻	(E2)		0.1387 *19*	α(K)=0.0826 *12*; α(L)=0.0425 *6*; α(M)=0.01065 *15* α(N)=0.00259 *4*; α(O)=0.000410 *6*; α(P)=8.70×10^{-6} *12* E_γ: uncertainty increased to 0.020 keV from 0.003 in the fitting procedure. Intensity divided equally in two placements in 2008Ba25 without specifying a supporting argument.
		347.064 *5*	20.1 *11*	0.0	1⁻	E2		0.0621 *9*	α(K)=0.0418 *6*; α(L)=0.01546 *22*; α(M)=0.00382 *5* α(N)=0.000929 *13*; α(O)=0.0001501 *21*; α(P)=4.57×10^{-6} *6*
361.382	(3)⁺	90.460 *5*	100 *15*	270.918	(3)⁺	M1		8.16 *11*	α(K)=6.72 *9*; α(L)=1.111 *16*; α(M)=0.256 *4* α(N)=0.0629 *9*; α(O)=0.01114 *16*; α(P)=0.000838 *12*
		214.327 *22*	19 *4*	147.073	4⁺	M1		0.708 *10*	α(K)=0.585 *8*; α(L)=0.0950 *13*; α(M)=0.02188 *31* α(N)=0.00538 *8*; α(O)=0.000953 *13*; α(P)=7.19×10^{-5} *10*

$^{194}_{77}Ir_{117}$-10

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. †	δ †	α #	Comments
377.006	(3)$^-$	122.847 *8*	2.5 *5*	254.161	2$^-$	M1		3.40 *5*	α(K)=2.80 *4*; α(L)=0.460 *6*; α(M)=0.1059 *15* α(N)=0.0260 *4*; α(O)=0.00461 *6*; α(P)=0.000347 *5*
		131.898 *3*	7.0 *5*	245.110	(3)$^-$	M1		2.77 *4*	α(K)=2.288 *32*; α(L)=0.375 *5*; α(M)=0.0864 *12* α(N)=0.02123 *30*; α(O)=0.00376 *5*; α(P)=0.000283 *4* E_γ: level-energy difference=131.888.
		192.349 *23*	1.0 *3*	184.689	3$^-$	[M1+E2]		0.68 *28*	α(K)=0.49 *30*; α(L)=0.142 *14*; α(M)=0.035 *5* α(N)=0.0084 *12*; α(O)=0.00139 *10*; α(P)=6.E−5 *4*
		215.991 *11*	4.08 *24*	160.999	1$^-$	E2		0.267 *4*	α(K)=0.1394 *20*; α(L)=0.0961 *13*; α(M)=0.02430 *34* α(N)=0.00589 *8*; α(O)=0.000924 *13*; α(P)=1.423×10^{-5} *20*
		228.070 *4*	15.4 *9*	148.934	(3)$^-$	M1+E2	0.19 *+22−19*	0.58 *4*	α(K)=0.48 *4*; α(L)=0.0798 *12*; α(M)=0.01843 *28* α(N)=0.00453 *7*; α(O)=0.000799 *13*; α(P)=5.9×10^{-5} *5*
		264.744& *3*	100.0& *24*	112.230	2$^-$	M1+E2		0.27 *13*	α(K)=0.20 *12*; α(L)=0.048 *5*; α(M)=0.0114 *8* α(N)=0.00279 *21*; α(O)=0.00047 *6*; α(P)=2.4×10^{-5} *16* E_γ: uncertainty increased to 0.020 keV from 0.003 in the fitting procedure.
		292.67@ *6*	<5.0@	84.284	2$^-$	(M1+E2)	1.2 *+8−4*	0.18 *4*	α(K)=0.14 *4*; α(L)=0.0335 *24*; α(M)=0.0080 *4* α(N)=0.00196 *11*; α(O)=0.000330 *26*; α(P)=1.7×10^{-5} *5*
390.963	(1,2)$^-$	136.803 *4*	4.6 *4*	254.161	2$^-$	M1+E2	0.72 *+21−19*	2.11 *14*	α(K)=1.50 *20*; α(L)=0.46 *4*; α(M)=0.112 *12* α(N)=0.0272 *29*; α(O)=0.0045 *4*; α(P)=0.000183 *26*
		252.288 *4*	19.0 *6*	138.687	1$^-$	M1+E2	0.89 *+21−18*	0.323 *31*	α(K)=0.249 *30*; α(L)=0.0564 *13*; α(M)=0.01345 *22* α(N)=0.00329 *6*; α(O)=0.000557 *14*; α(P)=3.0×10^{-5} *4* E_γ: level-energy difference=252.276.
		390.961 *2*	100.0 *24*	0.0	1$^-$	M1		0.1378 *19*	α(K)=0.1141 *16*; α(L)=0.01828 *26*; α(M)=0.00420 *6* α(N)=0.001033 *14*; α(O)=0.0001831 *26*; α(P)=1.389×10^{-5} *19*
394.880	4$^-$	149.777@ *14*	<5.3@	245.110	(3)$^-$	[M1+E2]		1.4 *5*	α(K)=1.0 *6*; α(L)=0.36 *10*; α(M)=0.089 *29* α(N)=0.022 *7*; α(O)=0.0035 *9*; α(P)=1.2×10^{-4} *8* Triple placement in 2008Ba25.
		210.202 *7*	10.6 *10*	184.689	3$^-$	M1+E2	0.97 *+18−16*	0.53 *4*	α(K)=0.39 *4*; α(L)=0.1038 *16*; α(M)=0.0251 *5* α(N)=0.00613 *12*; α(O)=0.001019 *14*; α(P)=4.6×10^{-5} *5*
		245.943 *4*	27.6 *16*	148.934	(3)$^-$	M1+E2	0.71 *+17−16*	0.380 *32*	α(K)=0.299 *31*; α(L)=0.0621 *12*; α(M)=0.01470 *22* α(N)=0.00360 *5*; α(O)=0.000615 *14*; α(P)=3.6×10^{-5} *4*
		282.646 *8*	16.0 *10*	112.230	2$^-$	[E2]		0.1134 *16*	α(K)=0.0699 *10*; α(L)=0.0330 *5*; α(M)=0.00824 *12* α(N)=0.002002 *28*; α(O)=0.000319 *4*; α(P)=7.44×10^{-6} *10*
		310.594 *2*	100 *3*	84.284	2$^-$	E2		0.0856 *12*	α(K)=0.0550 *8*; α(L)=0.02314 *32*; α(M)=0.00575 *8* α(N)=0.001398 *20*; α(O)=0.0002241 *31*; α(P)=5.94×10^{-6} *8*
407.017	3$^+$	136.100 *2*	100 *6*	270.918	(3)$^+$	M1		2.54 *4*	α(K)=2.093 *29*; α(L)=0.343 *5*; α(M)=0.0790 *11* α(N)=0.01941 *27*; α(O)=0.00344 *5*; α(P)=0.000259 *4*
		143.213 *4*	13.6 *18*	263.798	(4)$^+$	M1		2.196 *31*	α(K)=1.811 *25*; α(L)=0.296 *4*; α(M)=0.0683 *10* α(N)=0.01679 *24*; α(O)=0.00297 *4*; α(P)=0.0002239 *31*
		259.949 *4*	37.0 *12*	147.073	4$^+$	M1		0.416 *6*	α(K)=0.343 *5*; α(L)=0.0556 *8*; α(M)=0.01280 *18* α(N)=0.00315 *4*; α(O)=0.000557 *8*; α(P)=4.21×10^{-5} *6*

$^{194}_{77}Ir_{117}$-11

Adopted Levels, Gammas (continued)

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

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
407.017	3^+	322.61 *6*	8.2 *19*	84.284	2^-	[E1]		0.02127 *30*	α(K)=0.01765 *25*; α(L)=0.00279 *4*; α(M)=0.000640 *9* α(N)=0.0001560 *22*; α(O)=2.69×10^{-5} *4*; α(P)=1.761×10^{-6} *25*
416.589	$(4)^-$	119.958 *3*	68 *8*	296.630	4^-	M1+E2	1.3 *+4−3*	2.75 *18*	α(K)=1.47 *31*; α(L)=0.97 *10*; α(M)=0.244 *27* α(N)=0.059 *6*; α(O)=0.0093 *9*; α(P)=0.00017 *4*
		231.901[@] *3*	263[@] *8*	184.689	3^-	(M1)		0.569 *8*	α(K)=0.470 *7*; α(L)=0.0763 *11*; α(M)=0.01756 *25* α(N)=0.00432 *6*; α(O)=0.000765 *11*; α(P)=5.78×10^{-5} *8*
		269.518 *6*	100 *13*	147.073	4^+	E1		0.0327 *5*	α(K)=0.0270 *4*; α(L)=0.00435 *6*; α(M)=0.000997 *14* α(N)=0.0002428 *34*; α(O)=4.17×10^{-5} *6*; α(P)=2.65×10^{-6} *4*
419.611	$(3)^-$	58.04 *9*	5 *3*	361.382	$(3)^+$	[E1]		0.341 *5*	α(L)=0.262 *4*; α(M)=0.0611 *9* α(N)=0.01461 *21*; α(O)=0.002336 *34*; α(P)=9.83×10^{-5} *14*
		165.448 *3*	100 *3*	254.161	2^-	M1		1.460 *20*	α(K)=1.205 *17*; α(L)=0.1968 *28*; α(M)=0.0453 *6* α(N)=0.01114 *16*; α(O)=0.001973 *28*; α(P)=0.0001487 *21*
		224.085 *3*	50.7 *15*	195.526	2^-	M1		0.626 *9*	α(K)=0.517 *7*; α(L)=0.0839 *12*; α(M)=0.01932 *27* α(N)=0.00475 *7*; α(O)=0.000842 *12*; α(P)=6.35×10^{-5} *9*
		280.956 *24*	5.7 *9*	138.687	1^-				
423.725	$(2)^-$	109.662 *23*	9 *5*	314.054	2^-	M1+E2	1.3 *+17−6*	3.7 *5*	α(K)=1.9 *10*; α(L)=1.4 *4*; α(M)=0.36 *10* α(N)=0.087 *24*; α(O)=0.0137 *35*; α(P)=2.2×10^{-4} *12*
		145.221 *2*	46.1 *18*	278.504	$(2)^-$	M1		2.111 *30*	α(K)=1.741 *24*; α(L)=0.285 *4*; α(M)=0.0656 *9* α(N)=0.01613 *23*; α(O)=0.00286 *4*; α(P)=0.0002152 *30*
		169.564 *2*	100 *3*	254.161	2^-	M1		1.363 *19*	α(K)=1.125 *16*; α(L)=0.1836 *26*; α(M)=0.0423 *6* α(N)=0.01039 *15*; α(O)=0.001841 *26*; α(P)=0.0001387 *19*
		228.201 *4*	41.2 *20*	195.526	2^-	M1+E2	1.09 *+28−21*	0.39 *4*	α(K)=0.29 *4*; α(L)=0.0781 *11*; α(M)=0.01891 *29* α(N)=0.00461 *7*; α(O)=0.000766 *13*; α(P)=3.4×10^{-5} *5*
		262.739 *3*	57.1 *23*	160.999	1^-	M1+E2	1.27 *+25−19*	0.242 *21*	α(K)=0.180 *20*; α(L)=0.0477 *11*; α(M)=0.01153 *20* α(N)=0.00281 *5*; α(O)=0.000468 *12*; α(P)=2.11×10^{-5} *26* E_γ: uncertainty increased to 0.010 keV from 0.003 in the fitting procedure.
		276.667[@ a] *24*	<14.4[@]	147.073	4^+	[M2]		1.433 *20*	α(K)=1.102 *15*; α(L)=0.2523 *35*; α(M)=0.0608 *9* α(N)=0.01504 *21*; α(O)=0.00263 *4*; α(P)=0.0001820 *25* Placement of this γ is questionable due to mult=M2 implied by ΔJ^π.
		311.492 *4*	68.6 *20*	112.230	2^-	M1+E2	0.69 *+11−10*	0.199 *12*	α(K)=0.160 *11*; α(L)=0.0303 *9*; α(M)=0.00711 *17* α(N)=0.00174 *4*; α(O)=0.000301 *9*; α(P)=1.93×10^{-5} *14*
		423.74 *4*	9.7 *21*	0.0	1^-	M1		0.1112 *16*	α(K)=0.0921 *13*; α(L)=0.01473 *21*; α(M)=0.00338 *5* α(N)=0.000832 *12*; α(O)=0.0001475 *21*; α(P)=1.120×10^{-5} *16*
436.295	2^-	41.42[@] *5*	<1.2[@]	394.880	4^-	[E2]		268 *4*	α(L)=202.0 *31*; α(M)=51.7 *8* α(N)=12.44 *19*; α(O)=1.881 *29*; α(P)=0.001667 *25*
		182.146 *5*	15.8 *5*	254.161	2^-	M1		1.115 *16*	α(K)=0.920 *13*; α(L)=0.1500 *21*; α(M)=0.0345 *5* α(N)=0.00849 *12*; α(O)=0.001504 *21*; α(P)=0.0001134 *16*
		190.789 *12*	2.8 *10*	245.492	(0^-)	(E2)		0.405 *6*	α(K)=0.1916 *27*; α(L)=0.1614 *23*; α(M)=0.0410 *6* α(N)=0.00994 *14*; α(O)=0.001547 *22*; α(P)=1.923×10^{-5} *27*
		191.198 *7*	3.0 *4*	245.110	$(3)^-$	[M1+E2]		0.69 *29*	α(K)=0.50 *31*; α(L)=0.145 *15*; α(M)=0.035 *5*

$^{194}_{77}Ir_{117}$-12

Adopted Levels, Gammas (continued)

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

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
									α(N)=0.0086 *12*; α(O)=0.00142 *11*; α(P)=6.E−5 *4*
		240.774 *5*	11.7 *5*	195.526	2^-	M1+E2	0.91 *+19−16*	0.365 *31*	α(K)=0.280 *30*; α(L)=0.0656 *11*; α(M)=0.01570 *22*
									α(N)=0.00384 *5*; α(O)=0.000647 *13*; α(P)=3.3×10^{-5} *4*
		275.292 *2*	100.0 *17*	160.999	1^-	M1+E2	0.35 *+8−9*	0.330 *12*	α(K)=0.270 *11*; α(L)=0.0463 *8*; α(M)=0.01073 *17*
									α(N)=0.00263 *4*; α(O)=0.000462 *9*; α(P)=3.29×10^{-5} *14*

$^{194}_{77}Ir_{117}$-13

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
436.295	2⁻	292.67[@] *6*	<7.0[@]	143.595	0⁻	(E2)		0.1021 *14*	α(K)=0.0639 *9*; α(L)=0.0289 *4*; α(M)=0.00721 *10* α(N)=0.001751 *25*; α(O)=0.000280 *4*; α(P)=6.84×10^{-6} *10*
		297.597 *10*	7.2 *6*	138.687	1⁻	M1+E2	0.3 *+5−3*	0.27 *6*	α(K)=0.22 *5*; α(L)=0.0374 *35*; α(M)=0.0086 *6* α(N)=0.00212 *16*; α(O)=0.00037 *4*; α(P)=2.7×10^{-5} *7*
		323.86[@] *11*	<5.8[@]	112.230	2⁻	[M1]		0.2284 *32*	α(K)=0.1890 *27*; α(L)=0.0304 *4*; α(M)=0.00700 *10* α(N)=0.001721 *24*; α(O)=0.000305 *4*; α(P)=2.308×10^{-5} *32*
		353.963 *2*	91 *3*	82.334	1⁻	M1		0.1798 *25*	α(K)=0.1488 *21*; α(L)=0.02391 *33*; α(M)=0.00550 *8* α(N)=0.001351 *19*; α(O)=0.0002395 *34*; α(P)=1.815×10^{-5} *25*
		436.281[@] *16*	<10.7[@]	0.0	1⁻	(M1+E2)		0.068 *35*	α(K)=0.055 *31*; α(L)=0.0104 *33*; α(M)=0.0024 *7* α(N)=6.0×10^{-4} *17*; α(O)=1.03×10^{-4} *34*; α(P)=7.E−6 *4*
467.207	2⁻	90.187 *14*	62 *19*	377.006	(3)⁻	[M1+E2]		7.7 *6*	α(K)=3.8 *30*; α(L)=2.9 *18*; α(M)=0.7 *5* α(N)=0.18 *11*; α(O)=0.028 *17*; α(P)=5.E−4 *4*
		105.814 *10*	14 *8*	361.382	(3)⁺	[E1]		0.346 *5*	α(K)=0.280 *4*; α(L)=0.0508 *7*; α(M)=0.01175 *16* α(N)=0.00284 *4*; α(O)=0.000470 *7*; α(P)=2.419×10^{-5} *34*
		129.571[@] *5*	<28[@]	337.648	2⁻	M1+E2		2.3 *6*	α(K)=1.4 *10*; α(L)=0.64 *24*; α(M)=0.16 *7* α(N)=0.039 *16*; α(O)=0.0062 *22*; α(P)=1.7×10^{-4} *12*
		158.249 *12*	41 *16*	308.973	1⁻	M1		1.656 *23*	α(K)=1.366 *19*; α(L)=0.2232 *31*; α(M)=0.0514 *7* α(N)=0.01264 *18*; α(O)=0.002238 *31*; α(P)=0.0001686 *24*
		170.588 *13*	25 *12*	296.630	4⁻	(E2)		0.600 *8*	α(K)=0.254 *4*; α(L)=0.261 *4*; α(M)=0.0665 *9* α(N)=0.01610 *23*; α(O)=0.002494 *35*; α(P)=2.522×10^{-5} *35*
		188.63[@] *5*	<8.6[@]	278.504	(2)⁻	[M1+E2]		0.72 *29*	α(K)=0.52 *32*; α(L)=0.153 *17*; α(M)=0.037 *6* α(N)=0.0091 *14*; α(O)=0.00149 *13*; α(P)=6.E−5 *4*
		271.676[@] *3*	<650[@]	195.526	2⁻	E2		0.1280 *18*	α(K)=0.0773 *11*; α(L)=0.0384 *5*; α(M)=0.00962 *13* α(N)=0.002336 *33*; α(O)=0.000371 *5*; α(P)=8.18×10^{-6} *11*
		282.52 *3*	38 *8*	184.689	3⁻	M1+E2	2.0 *+24−7*	0.16 *4*	α(K)=0.111 *35*; α(L)=0.0353 *20*; α(M)=0.00864 *35* α(N)=0.00210 *9*; α(O)=0.000344 *22*; α(P)=1.3×10^{-5} *4*
		305.687[a] *7*	63 *3*	161.5	(5⁺)	[E3]		0.432 *6*	α(K)=0.1585 *22*; α(L)=0.2051 *29*; α(M)=0.0535 *7* α(N)=0.01305 *18*; α(O)=0.002041 *29*; α(P)=2.54×10^{-5} *4* Placement of this γ is questionable due to mult=E3 implied by ΔJ^π.
		306.24[@] *3*	<41[@]	160.999	1⁻	M1		0.266 *4*	α(K)=0.2198 *31*; α(L)=0.0355 *5*; α(M)=0.00815 *11* α(N)=0.002005 *28*; α(O)=0.000355 *5*; α(P)=2.69×10^{-5} *4*
		323.86[@] *11*	<38[@]	143.595	0⁻	[E2]		0.0757 *11*	α(K)=0.0496 *7*; α(L)=0.01984 *28*; α(M)=0.00492 *7* α(N)=0.001196 *17*; α(O)=0.0001923 *27*; α(P)=5.38×10^{-6} *8*
		382.91 *5*	1.0×10^2 *3*	84.284	2⁻	[M1+E2]		0.10 *5*	α(K)=0.08 *4*; α(L)=0.015 *4*; α(M)=0.0036 *9* α(N)=8.7×10^{-4} *22*; α(O)=1.5×10^{-4} *4*; α(P)=9.E−6 *6*
		424.21 *7*	73 *8*	43.119	0⁻	E2		0.0360 *5*	α(K)=0.0258 *4*; α(L)=0.00778 *11*; α(M)=0.001898 *27* α(N)=0.000462 *6*; α(O)=7.59×10^{-5} *11*; α(P)=2.88×10^{-6} *4*

$^{194}_{77}Ir_{117}$-14

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
486.064	2⁻	95.107 *18*	22 *8*	390.963	(1,2)⁻	M1+E2	0.6 *+7−6*	6.7 *5*	α(K)=4.5 *18*; α(L)=1.7 *10*; α(M)=0.41 *26* α(N)=0.10 *6*; α(O)=0.016 *9*; α(P)=5.6×10^{-4} *23* Mult.: M1 or M1+E2 (1998Ba85).
		109.058 *6*	23 *4*	377.006	(3)⁻	M1		4.78 *7*	α(K)=3.94 *6*; α(L)=0.647 *9*; α(M)=0.1491 *21* α(N)=0.0366 *5*; α(O)=0.00649 *9*; α(P)=0.000488 *7*
		172.016 *5*	19.6 *16*	314.054	2⁻	M1		1.309 *18*	α(K)=1.080 *15*; α(L)=0.1763 *25*; α(M)=0.0406 *6* α(N)=0.00998 *14*; α(O)=0.001767 *25*; α(P)=0.0001332 *19*
		177.120 *11*	30 *10*	308.973	1⁻	M1+E2	1.6 *+16−6*	0.72 *15*	α(K)=0.45 *17*; α(L)=0.205 *13*; α(M)=0.051 *4* α(N)=0.0124 *10*; α(O)=0.00198 *11*; α(P)=5.1×10^{-5} *22*
		231.901[@] *3*	<101[@]	254.161	2⁻	(M1)		0.569 *8*	α(K)=0.470 *7*; α(L)=0.0763 *11*; α(M)=0.01756 *25* α(N)=0.00432 *6*; α(O)=0.000765 *11*; α(P)=5.78×10^{-5} *8*
		290.516[@] *9*	43[@] *3*	195.526	2⁻	M1		0.307 *4*	α(K)=0.254 *4*; α(L)=0.0410 *6*; α(M)=0.00942 *13* α(N)=0.002316 *32*; α(O)=0.000410 *6*; α(P)=3.10×10^{-5} *4*
		301.356 *9*	27 *4*	184.689	3⁻	M1		0.278 *4*	α(K)=0.2296 *32*; α(L)=0.0370 *5*; α(M)=0.00852 *12* α(N)=0.002095 *29*; α(O)=0.000371 *5*; α(P)=2.81×10^{-5} *4*
		342.472 *6*	83 *5*	143.595	0⁻	E2		0.0645 *9*	α(K)=0.0432 *6*; α(L)=0.01621 *23*; α(M)=0.00401 *6* α(N)=0.000975 *14*; α(O)=0.0001574 *22*; α(P)=4.72×10^{-6} *7*
		373.845 *9*	58 *3*	112.230	2⁻	M1+E2	0.7 *4*	0.121 *26*	α(K)=0.098 *23*; α(L)=0.0178 *22*; α(M)=0.0041 *5* α(N)=0.00102 *11*; α(O)=0.000177 *22*; α(P)=1.18×10^{-5} *29*
		401.782 *6*	100 *4*	84.284	2⁻	M1+E2	0.66 *+17−16*	0.102 *9*	α(K)=0.083 *8*; α(L)=0.0147 *8*; α(M)=0.00341 *18* α(N)=0.00084 *4*; α(O)=0.000146 *9*; α(P)=1.00×10^{-5} *10*
489.648	2⁻	98.698 *6*	21 *5*	390.963	(1,2)⁻	M1+E2	0.7 *3*	5.87 *30*	α(K)=3.8 *9*; α(L)=1.6 *4*; α(M)=0.39 *11* α(N)=0.096 *27*; α(O)=0.015 *4*; α(P)=0.00047 *11*
		152.016 *20*	11 *5*	337.648	2⁻	M1		1.855 *26*	α(K)=1.530 *21*; α(L)=0.2502 *35*; α(M)=0.0576 *8* α(N)=0.01417 *20*; α(O)=0.002509 *35*; α(P)=0.0001890 *26*
		152.118 *14*	15 *4*	337.525	1⁻	M1		1.851 *26*	α(K)=1.527 *21*; α(L)=0.2497 *35*; α(M)=0.0575 *8* α(N)=0.01414 *20*; α(O)=0.002504 *35*; α(P)=0.0001886 *26*
		175.608 *16*	16 *3*	314.054	2⁻	[M1+E2]		0.89 *35*	α(K)=0.6 *4*; α(L)=0.198 *32*; α(M)=0.048 *10* α(N)=0.0118 *24*; α(O)=0.00193 *27*; α(P)=7.E−5 *5*
		180.680 *5*	39.1 *16*	308.973	1⁻	M1		1.140 *16*	α(K)=0.941 *13*; α(L)=0.1534 *21*; α(M)=0.0353 *5* α(N)=0.00869 *12*; α(O)=0.001539 *22*; α(P)=0.0001160 *16*
		211.133 *4*	46 *3*	278.504	(2)⁻	M1+E2	0.5 *+3−5*	0.65 *9*	α(K)=0.52 *9*; α(L)=0.1004 *19*; α(M)=0.0236 *8* α(N)=0.00578 *19*; α(O)=0.000998 *15*; α(P)=6.3×10^{-5} *12*
		235.493 *5*	63 *3*	254.161	2⁻	M1		0.545 *8*	α(K)=0.451 *6*; α(L)=0.0731 *10*; α(M)=0.01683 *24* α(N)=0.00414 *6*; α(O)=0.000733 *10*; α(P)=5.53×10^{-5} *8*
		304.982 *15*	29 *3*	184.689	3⁻	M1		0.269 *4*	α(K)=0.2223 *31*; α(L)=0.0359 *5*; α(M)=0.00825 *12* α(N)=0.002027 *28*; α(O)=0.000359 *5*; α(P)=2.72×10^{-5} *4*
		346.04 *5*	22 *4*	143.595	0⁻	[E2]		0.0627 *9*	α(K)=0.0421 *6*; α(L)=0.01563 *22*; α(M)=0.00386 *5* α(N)=0.000939 *13*; α(O)=0.0001517 *21*; α(P)=4.61×10^{-6} *6*
		350.91 *7*	17 *4*	138.687	1⁻	[M1+E2]		0.12 *6*	α(K)=0.10 *6*; α(L)=0.020 *5*; α(M)=0.0046 *10* α(N)=0.00114 *25*; α(O)=1.9×10^{-4} *5*; α(P)=1.2×10^{-5} *7*
		377.35 *6*	38 *7*	112.230	2⁻	[M1+E2]		0.10 *5*	α(K)=0.08 *5*; α(L)=0.016 *4*; α(M)=0.0037 *9* α(N)=0.00091 *22*; α(O)=1.6×10^{-4} *4*; α(P)=1.0×10^{-5} *6*
		405.351 *6*	87 *4*	84.284	2⁻	M1		0.1251 *18*	α(K)=0.1036 *15*; α(L)=0.01659 *23*; α(M)=0.00381 *5*

$^{194}_{77}Ir_{117}$-15

Adopted Levels, Gammas (continued)

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

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
									α(N)=0.000937 *13*; α(O)=0.0001661 *23*; α(P)=1.261×10^{-5} *18*
		407.325 *8*	100 *11*	82.334	1^-	M1		0.1235 *17*	α(K)=0.1023 *14*; α(L)=0.01637 *23*; α(M)=0.00376 *5*
									α(N)=0.000925 *13*; α(O)=0.0001640 *23*; α(P)=1.244×10^{-5} *17*

$^{194}_{77}Ir_{117}$-16

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
500.218	(3)$^-$	186.162 *3*	64.9 *17*	314.054	2$^-$	M1		1.049 *15*	α(K)=0.866 *12*; α(L)=0.1411 *20*; α(M)=0.0325 *5* α(N)=0.00799 *11*; α(O)=0.001414 *20*; α(P)=0.0001066 *15*
		229.27 *5*	39 *14*	270.918	(3)$^+$	E1		0.0485 *7*	α(K)=0.0401 *6*; α(L)=0.00654 *9*; α(M)=0.001502 *21* α(N)=0.000365 *5*; α(O)=6.24×10^{-5} *9*; α(P)=3.85×10^{-6} *5*
		246.051 *8*	29 *3*	254.161	2$^-$	M1		0.483 *7*	α(K)=0.399 *6*; α(L)=0.0647 *9*; α(M)=0.01490 *21* α(N)=0.00366 *5*; α(O)=0.000649 *9*; α(P)=4.90×10^{-5} *7*
		304.666 *4*	100 *3*	195.526	2$^-$	M1		0.270 *4*	α(K)=0.2229 *31*; α(L)=0.0360 *5*; α(M)=0.00827 *12* α(N)=0.002033 *28*; α(O)=0.000360 *5*; α(P)=2.73×10^{-5} *4* E_γ: uncertainty increased to 0.020 keV from 0.004 in the fitting procedure.
		315.52 *6*	19 *5*	184.689	3$^-$	M1+E2	>1.5	0.107 *25*	α(K)=0.076 *23*; α(L)=0.0235 *17*; α(M)=0.00574 *33* α(N)=0.00140 *8*; α(O)=0.000229 *18*; α(P)=8.7×10^{-6} *29*
501.814	(2)$^-$	124.777 *7*	3.0 *4*	377.006	(3)$^-$	M1+E2	0.68 *+23−22*	2.83 *19*	α(K)=2.00 *31*; α(L)=0.63 *9*; α(M)=0.154 *24* α(N)=0.038 *6*; α(O)=0.0062 *8*; α(P)=0.00024 *4* E_γ: uncertainty increased to 0.028 keV from 0.007 in the fitting procedure.
		192.82 *3*	1.1 *3*	308.973	1$^-$	M1		0.950 *13*	α(K)=0.785 *11*; α(L)=0.1278 *18*; α(M)=0.0294 *4* α(N)=0.00723 *10*; α(O)=0.001281 *18*; α(P)=9.66×10^{-5} *14*
		247.655[@] *4*	<6.1[@]	254.161	2$^-$	M1		0.475 *7*	α(K)=0.392 *5*; α(L)=0.0636 *9*; α(M)=0.01463 *20* α(N)=0.00360 *5*; α(O)=0.000637 *9*; α(P)=4.81×10^{-5} *7*
		306.24[@] *3*	<4.6[@]	195.526	2$^-$	M1		0.266 *4*	α(K)=0.2198 *31*; α(L)=0.0355 *5*; α(M)=0.00815 *11* α(N)=0.002005 *28*; α(O)=0.000355 *5*; α(P)=2.69×10^{-5} *4*
		340.813 *4*	100.0 *15*	160.999	1$^-$	M1		0.1991 *28*	α(K)=0.1647 *23*; α(L)=0.0265 *4*; α(M)=0.00609 *9* α(N)=0.001497 *21*; α(O)=0.000265 *4*; α(P)=2.010×10^{-5} *28*
		358.20 *4*	3.7 *9*	143.595	0$^-$	[E2]		0.0569 *8*	α(K)=0.0387 *5*; α(L)=0.01383 *19*; α(M)=0.00341 *5* α(N)=0.000829 *12*; α(O)=0.0001343 *19*; α(P)=4.25×10^{-6} *6*
		363.142 *11*	5.5 *6*	138.687	1$^-$	M1		0.1679 *24*	α(K)=0.1389 *19*; α(L)=0.02231 *31*; α(M)=0.00513 *7* α(N)=0.001261 *18*; α(O)=0.0002235 *31*; α(P)=1.693×10^{-5} *24*
		389.70 *8*	8.8 *21*	112.230	2$^-$	M1+E2	1.1 *+10−5*	0.088 *27*	α(K)=0.069 *24*; α(L)=0.0140 *23*; α(M)=0.0033 *5* α(N)=0.00081 *12*; α(O)=0.000139 *24*; α(P)=8.3×10^{-6} *30*
		417.53 *6*	3.4 *9*	84.284	2$^-$	M1		0.1157 *16*	α(K)=0.0958 *13*; α(L)=0.01532 *21*; α(M)=0.00352 *5* α(N)=0.000865 *12*; α(O)=0.0001535 *21*; α(P)=1.165×10^{-5} *16*
518.575	2$^+$	180.930 *5*	2.40 *13*	337.648	2$^-$	E1		0.0879 *12*	α(K)=0.0722 *10*; α(L)=0.01208 *17*; α(M)=0.00278 *4* α(N)=0.000675 *9*; α(O)=0.0001145 *16*; α(P)=6.73×10^{-6} *9*
		181.069 *5*	2.08 *18*	337.525	1$^-$	E1		0.0877 *12*	α(K)=0.0721 *10*; α(L)=0.01206 *17*; α(M)=0.00277 *4* α(N)=0.000674 *9*; α(O)=0.0001142 *16*; α(P)=6.72×10^{-6} *9* E_γ: uncertainty increased to 0.015 keV from 0.005 in the fitting procedure.
		209.595 *6*	1.60 *13*	308.973	1$^-$	E1		0.0607 *8*	α(K)=0.0500 *7*; α(L)=0.00824 *12*; α(M)=0.001893 *27* α(N)=0.000460 *6*; α(O)=7.84×10^{-5} *11*; α(P)=4.75×10^{-6} *7*

$^{194}_{77}Ir_{117}$-17

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.†	δ†	α#	Comments
518.575	2^+	247.655@ *4*	<2.2@	270.918	$(3)^+$	M1		0.475 *7*	α(K)=0.392 *5*; α(L)=0.0636 *9*; α(M)=0.01463 *20* α(N)=0.00360 *5*; α(O)=0.000637 *9*; α(P)=4.81×10^{-5} *7*
		323.04 *4*	1.15 *21*	195.526	2^-	[E1]		0.02120 *30*	α(K)=0.01760 *25*; α(L)=0.00278 *4*; α(M)=0.000638 *9* α(N)=0.0001555 *22*; α(O)=2.68×10^{-5} *4*; α(P)=1.756×10^{-6} *25*
		334.12 *8*	1.30 *25*	184.689	3^-	E1		0.01959 *27*	α(K)=0.01627 *23*; α(L)=0.00257 *4*; α(M)=0.000588 *8* α(N)=0.0001434 *20*; α(O)=2.476×10^{-5} *35*; α(P)=1.629×10^{-6} *23*
		371.502 *2*	100 *3*	147.073	4^+	E2		0.0514 *7*	α(K)=0.0354 *5*; α(L)=0.01217 *17*; α(M)=0.00299 *4* α(N)=0.000729 *10*; α(O)=0.0001184 *17*; α(P)=3.90×10^{-6} *5*
		436.281@ *16*	<2.9@	82.334	1^-	[E1]		0.01070 *15*	α(K)=0.00892 *12*; α(L)=0.001376 *19*; α(M)=0.000314 *4* α(N)=7.68×10^{-5} *11*; α(O)=1.335×10^{-5} *19*; α(P)=9.12×10^{-7} *13*
519.517	$(3)^+$	112.500 *3*	15.4 *24*	407.017	3^+	M1		4.37 *6*	α(K)=3.60 *5*; α(L)=0.592 *8*; α(M)=0.1363 *19* α(N)=0.0335 *5*; α(O)=0.00593 *8*; α(P)=0.000447 *6*
		226.299 *15*	15.8 *16*	293.241	$(3,4,5)^+$	M1		0.609 *9*	α(K)=0.503 *7*; α(L)=0.0817 *11*; α(M)=0.01880 *26* α(N)=0.00462 *6*; α(O)=0.000819 *11*; α(P)=6.18×10^{-5} *9*
		248.599 *2*	100.0 *22*	270.918	$(3)^+$	M1		0.470 *7*	α(K)=0.388 *5*; α(L)=0.0629 *9*; α(M)=0.01448 *20* α(N)=0.00356 *5*; α(O)=0.000631 *9*; α(P)=4.76×10^{-5} *7*
		255.743 *9*	15.6 *16*	263.798	$(4)^+$	M1+E2	1.7 *+7–4*	0.227 *32*	α(K)=0.159 *31*; α(L)=0.0511 *13*; α(M)=0.01251 *22* α(N)=0.00305 *6*; α(O)=0.000498 *15*; α(P)=1.8×10^{-5} *4*
		265.38 *5*	11 *9*	254.161	2^-	[E1]		0.0339 *5*	α(K)=0.0281 *4*; α(L)=0.00452 *6*; α(M)=0.001037 *15* α(N)=0.0002523 *35*; α(O)=4.33×10^{-5} *6*; α(P)=2.74×10^{-6} *4*
		358.00 *4*	10.6 *24*	161.5	(5^+)	[E2]		0.0570 *8*	α(K)=0.0387 *5*; α(L)=0.01386 *19*; α(M)=0.00342 *5* α(N)=0.000831 *12*; α(O)=0.0001346 *19*; α(P)=4.26×10^{-6} *6*
		372.48 *3*	18.3 *19*	147.073	4^+	M1		0.1568 *22*	α(K)=0.1298 *18*; α(L)=0.02083 *29*; α(M)=0.00479 *7* α(N)=0.001177 *16*; α(O)=0.0002087 *29*; α(P)=1.582×10^{-5} *22*
519.788	3^-	142.778 *7*	9.0 *12*	377.006	$(3)^-$	M1		2.215 *31*	α(K)=1.827 *26*; α(L)=0.299 *4*; α(M)=0.0689 *10* α(N)=0.01693 *24*; α(O)=0.00300 *4*; α(P)=0.0002259 *32*
		158.411 *6*	26 *4*	361.382	$(3)^+$	E1		0.1232 *17*	α(K)=0.1009 *14*; α(L)=0.01717 *24*; α(M)=0.00395 *6* α(N)=0.000959 *13*; α(O)=0.0001618 *23*; α(P)=9.24×10^{-6} *13*
		172.759 *17*	8.1 *13*	347.055	3^-	[M1+E2]		0.9 *4*	α(K)=0.7 *4*; α(L)=0.21 *4*; α(M)=0.052 *11* α(N)=0.0125 *27*; α(O)=0.00205 *31*; α(P)=8.E−5 *5*
		205.743 *18*	12 *3*	314.054	2^-	(M1+E2)	2.0 *+19–6*	0.41 *7*	α(K)=0.26 *7*; α(L)=0.1154 *22*; α(M)=0.0287 *8* α(N)=0.00698 *19*; α(O)=0.001116 *18*; α(P)=2.9×10^{-5} *9*
		223.21 *4*	9 *3*	296.630	4^-	M1		0.633 *9*	α(K)=0.522 *7*; α(L)=0.0849 *12*; α(M)=0.01953 *27* α(N)=0.00480 *7*; α(O)=0.000851 *12*; α(P)=6.42×10^{-5} *9*

$^{194}_{77}Ir_{117}$-18

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.†	δ†	α#	Comments
519.788	3⁻	265.63 *3*	23 *6*	254.161	2⁻	(M1,E2)		0.26 *13*	α(K)=0.20 *12*; α(L)=0.047 *5*; α(M)=0.0113 *8* α(N)=0.00276 *21*; α(O)=0.00046 *6*; α(P)=2.4×10^{-5} *16*
		324.265 *3*	100 *4*	195.526	2⁻	M1+E2	2.3 *+6−4*	0.100 *9*	α(K)=0.072 *8*; α(L)=0.0214 *7*; α(M)=0.00523 *14* α(N)=0.001274 *35*; α(O)=0.000209 *7*; α(P)=8.2×10^{-6} *10*
		335.095 *6*	55.1 *23*	184.689	3⁻	M1+E2	1.6 *+12−5*	0.108 *24*	α(K)=0.081 *22*; α(L)=0.0204 *18*; α(M)=0.0049 *4* α(N)=0.00120 *9*; α(O)=0.000200 *19*; α(P)=9.5×10^{-6} *28*
		370.87@ *3*	<21.2@	148.934	(3)⁻	M1		0.1587 *22*	α(K)=0.1313 *18*; α(L)=0.02107 *30*; α(M)=0.00484 *7* α(N)=0.001191 *17*; α(O)=0.0002111 *30*; α(P)=1.600×10^{-5} *22*
		407.540 *17*	41 *6*	112.230	2⁻	M1		0.1234 *17*	α(K)=0.1022 *14*; α(L)=0.01635 *23*; α(M)=0.00376 *5* α(N)=0.000924 *13*; α(O)=0.0001638 *23*; α(P)=1.242×10^{-5} *17*
542.588	(2)⁺	205.065 *4*	7.2 *3*	337.525	1⁻	E1		0.0641 *9*	α(K)=0.0528 *7*; α(L)=0.00871 *12*; α(M)=0.002004 *28* α(N)=0.000487 *7*; α(O)=8.29×10^{-5} *12*; α(P)=5.00×10^{-6} *7*
		271.676@ *3*	<72@	270.918	(3)⁺	E2		0.1280 *18*	α(K)=0.0773 *11*; α(L)=0.0384 *5*; α(M)=0.00962 *13* α(N)=0.002336 *33*; α(O)=0.000371 *5*; α(P)=8.18×10^{-6} *11*
		288.423 *8*	14.7 *7*	254.161	2⁻	E1		0.0277 *4*	α(K)=0.02298 *32*; α(L)=0.00367 *5*; α(M)=0.000842 *12* α(N)=0.0002052 *29*; α(O)=3.53×10^{-5} *5*; α(P)=2.268×10^{-6} *32*
		430.40 *8*	4 *3*	112.230	2⁻				
		458.294 *5*	52.4 *12*	84.284	2⁻	E1		0.00961 *13*	α(K)=0.00801 *11*; α(L)=0.001231 *17*; α(M)=0.000281 *4* α(N)=6.87×10^{-5} *10*; α(O)=1.195×10^{-5} *17*; α(P)=8.22×10^{-7} *12*
		460.250 *4*	100.0 *24*	82.334	1⁻	E1		0.00952 *13*	α(K)=0.00794 *11*; α(L)=0.001220 *17*; α(M)=0.000279 *4* α(N)=6.80×10^{-5} *10*; α(O)=1.184×10^{-5} *17*; α(P)=8.15×10^{-7} *11*
544.676	2⁻	125.085 *16*	4.9 *15*	419.611	(3)⁻	[M1+E2]		2.6 *7*	α(K)=1.6 *11*; α(L)=0.74 *30*; α(M)=0.18 *8* α(N)=0.044 *20*; α(O)=0.0071 *27*; α(P)=1.9×10^{-4} *14*
		137.645 *24*	4.3 *13*	407.017	3⁺	[E1]		0.1764 *25*	α(K)=0.1440 *20*; α(L)=0.02498 *35*; α(M)=0.00576 *8* α(N)=0.001395 *20*; α(O)=0.0002340 *33*; α(P)=1.292×10^{-5} *18*
		149.777@ *14*	<4.0@	394.880	4⁻	[E2]		0.960 *13*	α(K)=0.348 *5*; α(L)=0.461 *6*; α(M)=0.1179 *17* α(N)=0.0286 *4*; α(O)=0.00440 *6*; α(P)=3.45×10^{-5} *5*
		153.75 *4*	4.2 *12*	390.963	(1,2)⁻	[M1+E2]		1.3 *5*	α(K)=0.9 *6*; α(L)=0.33 *8*; α(M)=0.080 *25* α(N)=0.020 *6*; α(O)=0.0032 *7*; α(P)=1.1×10^{-4} *8*
		207.123 *14*	8.6 *8*	337.525	1⁻	M1+E2	1.28 *+34−24*	0.49 *5*	α(K)=0.34 *5*; α(L)=0.1106 *18*; α(M)=0.0271 *6* α(N)=0.00660 *15*; α(O)=0.001079 *16*; α(P)=4.0×10^{-5} *7*
		230.627 *9*	7.3 *9*	314.054	2⁻	[M1+E2]		0.40 *18*	α(K)=0.30 *18*; α(L)=0.0755 *22*; α(M)=0.0182 *4* α(N)=0.00444 *8*; α(O)=0.00074 *4*; α(P)=3.5×10^{-5} *23*
		235.707 *4*	25.0 *12*	308.973	1⁻	M1		0.544 *8*	α(K)=0.449 *6*; α(L)=0.0729 *10*; α(M)=0.01678 *23* α(N)=0.00413 *6*; α(O)=0.000731 *10*; α(P)=5.52×10^{-5} *8*

$^{194}_{77}Ir_{117}$-19

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. †	δ †	α #	Comments
544.676	2⁻	266.168 *8*	8.5 *13*	278.504	(2)⁻	M1		0.390 *5*	α(K)=0.322 *5*; α(L)=0.0521 *7*; α(M)=0.01199 *17* α(N)=0.00295 *4*; α(O)=0.000522 *7*; α(P)=3.95×10^{-5} *6*
		290.516@ *9*	<14.3@	254.161	2⁻	M1		0.307 *4*	α(K)=0.254 *4*; α(L)=0.0410 *6*; α(M)=0.00942 *13* α(N)=0.002316 *32*; α(O)=0.000410 *6*; α(P)=3.10×10^{-5} *4*
		299.567 *20*	12.5 *15*	245.110	(3)⁻	M1+E2	1.2 *+6−4*	0.17 *4*	α(K)=0.131 *35*; α(L)=0.0311 *23*; α(M)=0.0074 *4* α(N)=0.00182 *11*; α(O)=0.000306 *25*; α(P)=1.6×10^{-5} *4*
		349.06 *7*	5.8 *16*	195.526	2⁻	[M1+E2]		0.12 *6*	α(K)=0.10 *6*; α(L)=0.020 *5*; α(M)=0.0047 *10* α(N)=0.00116 *25*; α(O)=2.0×10^{-4} *5*; α(P)=1.2×10^{-5} *7*
		383.676 *3*	100 *3*	160.999	1⁻	M1		0.1449 *20*	α(K)=0.1199 *17*; α(L)=0.01923 *27*; α(M)=0.00442 *6* α(N)=0.001087 *15*; α(O)=0.0001926 *27*; α(P)=1.461×10^{-5} *20*
		432.45 *3*	12.2 *15*	112.230	2⁻	M1+E2	0.8 *3*	0.078 *14*	α(K)=0.063 *12*; α(L)=0.0114 *13*; α(M)=0.00265 *27* α(N)=0.00065 *7*; α(O)=0.000113 *13*; α(P)=7.5×10^{-6} *15*
556.374	(3)⁻	149.375 *7*	20 *5*	407.017	3⁺	E1		0.1431 *20*	α(K)=0.1171 *16*; α(L)=0.02007 *28*; α(M)=0.00463 *6* α(N)=0.001121 *16*; α(O)=0.0001887 *26*; α(P)=1.063×10^{-5} *15*
		242.314 *3*	50.0 *17*	314.054	2⁻	M1+E2	0.52 *10*	0.436 *22*	α(K)=0.350 *21*; α(L)=0.0660 *10*; α(M)=0.01546 *22* α(N)=0.00379 *5*; α(O)=0.000657 *11*; α(P)=4.25×10^{-5} *27*
		263.06@ *7*	<12@	293.241	(3,4,5)⁺	[E1]		0.0346 *5*	α(K)=0.0287 *4*; α(L)=0.00462 *6*; α(M)=0.001060 *15* α(N)=0.000258 *4*; α(O)=4.43×10^{-5} *6*; α(P)=2.80×10^{-6} *4*
		311.265 *16*	19 *3*	245.110	(3)⁻	[M1+E2]		0.17 *8*	α(K)=0.13 *8*; α(L)=0.028 *5*; α(M)=0.0068 *11* α(N)=0.00165 *27*; α(O)=0.00028 *6*; α(P)=1.6×10^{-5} *10*
		360.856 *7*	54 *5*	195.526	2⁻	M1		0.1707 *24*	α(K)=0.1413 *20*; α(L)=0.02269 *32*; α(M)=0.00522 *7* α(N)=0.001282 *18*; α(O)=0.0002273 *32*; α(P)=1.723×10^{-5} *24*
		444.25@ *11*	<26@	112.230	2⁻	[M1+E2]		0.065 *33*	α(K)=0.052 *29*; α(L)=0.0098 *31*; α(M)=0.0023 *7* α(N)=5.7×10^{-4} *17*; α(O)=9.8×10^{-5} *32*; α(P)=6.E−6 *4*
		472.102 *10*	100 *5*	84.284	2⁻	M1		0.0836 *12*	α(K)=0.0693 *10*; α(L)=0.01104 *15*; α(M)=0.002536 *35* α(N)=0.000623 *9*; α(O)=0.0001105 *15*; α(P)=8.40×10^{-6} *12*
561.855	(5)⁺	154.853 *11*	2.1 *6*	407.017	3⁺	[E2]		0.849 *12*	α(K)=0.321 *4*; α(L)=0.398 *6*; α(M)=0.1017 *14* α(N)=0.02463 *34*; α(O)=0.00380 *5*; α(P)=3.18×10^{-5} *4*
		290.913 *10*	6.8 *4*	270.918	(3)⁺	(E2)		0.1040 *15*	α(K)=0.0649 *9*; α(L)=0.0296 *4*; α(M)=0.00737 *10* α(N)=0.001792 *25*; α(O)=0.000286 *4*; α(P)=6.94×10^{-6} *10*
		400.32 *3*	5.6 *8*	161.5	(5⁺)	[M1+E2]		0.09 *4*	α(K)=0.07 *4*; α(L)=0.013 *4*; α(M)=0.0031 *8* α(N)=7.7×10^{-4} *20*; α(O)=1.3×10^{-4} *4*; α(P)=8.E−6 *5*
		414.783 *3*	100.0 *23*	147.073	4⁺	M1		0.1177 *16*	α(K)=0.0975 *14*; α(L)=0.01560 *22*; α(M)=0.00358 *5* α(N)=0.000881 *12*; α(O)=0.0001562 *22*; α(P)=1.185×10^{-5} *17*
578.499	3⁻	142.199 *6*	63 *4*	436.295	2⁻	M1		2.241 *31*	α(K)=1.848 *26*; α(L)=0.302 *4*; α(M)=0.0697 *10* α(N)=0.01713 *24*; α(O)=0.00303 *4*; α(P)=0.0002285 *32*
		187.530 *4*	47.9 *18*	390.963	(1,2)⁻	M1		1.027 *14*	α(K)=0.848 *12*; α(L)=0.1382 *19*; α(M)=0.0318 *4* α(N)=0.00782 *11*; α(O)=0.001386 *19*; α(P)=0.0001045 *15*
		201.506 *9*	14.2 *7*	377.006	(3)⁻	[M1+E2]		0.59 *25*	α(K)=0.43 *26*; α(L)=0.121 *8*; α(M)=0.0293 *33* α(N)=0.0071 *8*; α(O)=0.00118 *5*; α(P)=5.1×10^{-5} *34*
		382.984 *6*	100 *6*	195.526	2⁻	(M1+E2)		0.10 *5*	α(K)=0.08 *4*; α(L)=0.015 *4*; α(M)=0.0036 *9* α(N)=8.7×10^{-4} *22*; α(O)=1.5×10^{-4} *4*; α(P)=9.E−6 *6*

$^{194}_{77}Ir_{117}$-20

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
578.499	3⁻	431.53 *7*	93 *20*	147.073	4⁺	E1		0.01096 *15*	α(K)=0.00913 *13*; α(L)=0.001411 *20*; α(M)=0.000322 *5* α(N)=7.87×10^{-5} *11*; α(O)=1.368×10^{-5} *19*; α(P)=9.34×10^{-7} *13*
579.147	(2)⁻	59.358 *9*	2.5 *10*	519.788	3⁻	[E2]		46.3 *6*	α(L)=34.9 *5*; α(M)=8.95 *13* α(N)=2.160 *30*; α(O)=0.327 *5*; α(P)=0.000394 *6*
		188.175 *16*	1.2 *12*	390.963	(1,2)⁻	[M1+E2]		0.72 *30*	α(K)=0.52 *32*; α(L)=0.154 *17*; α(M)=0.038 *6* α(N)=0.0091 *14*; α(O)=0.00151 *14*; α(P)=6.E−5 *4*
		265.093 *23*	6.9 *15*	314.054	2⁻	M1		0.394 *6*	α(K)=0.326 *5*; α(L)=0.0527 *7*; α(M)=0.01212 *17* α(N)=0.00298 *4*; α(O)=0.000528 *7*; α(P)=3.99×10^{-5} *6*
		270.152 *20*	3.6 *5*	308.973	1⁻	M1+E2	1.1 *+7−4*	0.24 *5*	α(K)=0.18 *5*; α(L)=0.0441 *24*; α(M)=0.0106 *4* α(N)=0.00259 *10*; α(O)=0.000434 *27*; α(P)=2.2×10^{-5} *6*
		324.988 *3*	48.7 *15*	254.161	2⁻	M1		0.2263 *32*	α(K)=0.1872 *26*; α(L)=0.0301 *4*; α(M)=0.00693 *10* α(N)=0.001704 *24*; α(O)=0.000302 *4*; α(P)=2.287×10^{-5} *32*
		394.516[@] *25*	<7.0[@]	184.689	3⁻	M1		0.1345 *19*	α(K)=0.1114 *16*; α(L)=0.01784 *25*; α(M)=0.00410 *6* α(N)=0.001008 *14*; α(O)=0.0001787 *25*; α(P)=1.355×10^{-5} *19*
		418.144 *3*	100 *3*	160.999	1⁻	M1		0.1152 *16*	α(K)=0.0954 *13*; α(L)=0.01526 *21*; α(M)=0.00351 *5* α(N)=0.000862 *12*; α(O)=0.0001529 *21*; α(P)=1.160×10^{-5} *16*
		440.458 *10*	36.4 *12*	138.687	1⁻	M1		0.1004 *14*	α(K)=0.0832 *12*; α(L)=0.01328 *19*; α(M)=0.00305 *4* α(N)=0.000750 *11*; α(O)=0.0001330 *19*; α(P)=1.010×10^{-5} *14*
		496.82 *4*	7.3 *12*	82.334	1⁻	E2		0.02412 *34*	α(K)=0.01794 *25*; α(L)=0.00471 *7*; α(M)=0.001139 *16* α(N)=0.000278 *4*; α(O)=4.61×10^{-5} *6*; α(P)=2.027×10^{-6} *28*
590.727	(2,3)⁺	213.721 *18*	1.0×10^2 *3*	377.006	(3)⁻	E1		0.0578 *8*	α(K)=0.0476 *7*; α(L)=0.00783 *11*; α(M)=0.001800 *25* α(N)=0.000437 *6*; α(O)=7.46×10^{-5} *10*; α(P)=4.54×10^{-6} *6*
		276.667[@] *24*	<57[@]	314.054	2⁻	[E1]		0.0307 *4*	α(K)=0.0254 *4*; α(L)=0.00407 *6*; α(M)=0.000934 *13* α(N)=0.0002274 *32*; α(O)=3.91×10^{-5} *5*; α(P)=2.493×10^{-6} *35*
599.405	(2,3)⁻	163.120 *4*	8.6 *6*	436.295	2⁻	M1		1.520 *21*	α(K)=1.254 *18*; α(L)=0.2048 *29*; α(M)=0.0472 *7* α(N)=0.01160 *16*; α(O)=0.002054 *29*; α(P)=0.0001548 *22*
		208.443 *4*	7.8 *4*	390.963	(1,2)⁻	M1		0.765 *11*	α(K)=0.632 *9*; α(L)=0.1027 *14*; α(M)=0.02365 *33* α(N)=0.00581 *8*; α(O)=0.001030 *14*; α(P)=7.77×10^{-5} *11*
		222.392 *12*	3.9 *4*	377.006	(3)⁻	[M1+E2]		0.44 *20*	α(K)=0.33 *20*; α(L)=0.0855 *12*; α(M)=0.0206 *9* α(N)=0.00504 *20*; α(O)=0.000840 *23*; α(P)=3.9×10^{-5} *26*
		261.762[@] *15*	<3.9[@]	337.648	2⁻	M1		0.408 *6*	α(K)=0.337 *5*; α(L)=0.0546 *8*; α(M)=0.01255 *18* α(N)=0.00309 *4*; α(O)=0.000547 *8*; α(P)=4.13×10^{-5} *6*
		320.84 *4*	6.4 *11*	278.504	(2)⁻	M1+E2	1.0 *+6−4*	0.16 *4*	α(K)=0.122 *34*; α(L)=0.0259 *25*; α(M)=0.0061 *5* α(N)=0.00150 *13*; α(O)=0.000256 *27*; α(P)=1.5×10^{-5} *4*
		345.237 *6*	14.1 *4*	254.161	2⁻	M1		0.1923 *27*	α(K)=0.1591 *22*; α(L)=0.0256 *4*; α(M)=0.00588 *8* α(N)=0.001446 *20*; α(O)=0.000256 *4*; α(P)=1.941×10^{-5} *27*

$^{194}_{77}Ir_{117}$-21

Adopted Levels, Gammas (continued)

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

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. †	δ †	α #	Comments
		354.289 *21*	9.6 *17*	245.110	$(3)^-$	M1		0.1794 *25*	α(K)=0.1484 *21*; α(L)=0.02385 *33*; α(M)=0.00548 *8* α(N)=0.001348 *19*; α(O)=0.0002389 *33*; α(P)=1.810×10^{-5} *25*

$^{194}_{77}Ir_{117}$-22

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
599.405	(2,3)$^-$	438.34 *4*	5.4 *17*	160.999	1$^-$	[M1+E2]		0.067 *34*	α(K)=0.054 *30*; α(L)=0.0102 *32*; α(M)=0.0024 *7* α(N)=5.9×10^{-4} *17*; α(O)=1.01×10^{-4} *33*; α(P)=6.E−6 *4*
		487.176 *6*	100.0 *25*	112.230	2$^-$	M1		0.0770 *11*	α(K)=0.0638 *9*; α(L)=0.01016 *14*; α(M)=0.002332 *33* α(N)=0.000573 *8*; α(O)=0.0001017 *14*; α(P)=7.73×10^{-6} *11*
605.532	(3)$^-$	169.214 *9*	5.5 *8*	436.295	2$^-$	[M1+E2]		1.0 *4*	α(K)=0.7 *4*; α(L)=0.23 *4*; α(M)=0.056 *13* α(N)=0.0136 *31*; α(O)=0.0022 *4*; α(P)=8.E−5 *6*
		181.799 *9*	6.3 *9*	423.725	(2)$^-$	M1		1.121 *16*	α(K)=0.925 *13*; α(L)=0.1508 *21*; α(M)=0.0347 *5* α(N)=0.00854 *12*; α(O)=0.001512 *21*; α(P)=0.0001140 *16*
		228.52 *3*	8.2 *17*	377.006	(3)$^-$	M1		0.593 *8*	α(K)=0.490 *7*; α(L)=0.0795 *11*; α(M)=0.01829 *26* α(N)=0.00450 *6*; α(O)=0.000797 *11*; α(P)=6.02×10^{-5} *8*
		341.73 *3*	21 *5*	263.798	(4)$^+$	[E1]		0.01859 *26*	α(K)=0.01544 *22*; α(L)=0.002432 *34*; α(M)=0.000557 *8* α(N)=0.0001358 *19*; α(O)=2.347×10^{-5} *33*; α(P)=1.549×10^{-6} *22*
		360.423 *3*	100.0 *25*	245.110	(3)$^-$	M1+E2	1.69 *+30−22*	0.086 *7*	α(K)=0.065 *6*; α(L)=0.0159 *6*; α(M)=0.00383 *12* α(N)=0.000935 *30*; α(O)=0.000157 *6*; α(P)=7.6×10^{-6} *8*
		420.846 *5*	47.4 *14*	184.689	3$^-$	M1		0.1133 *16*	α(K)=0.0938 *13*; α(L)=0.01500 *21*; α(M)=0.00345 *5* α(N)=0.000847 *12*; α(O)=0.0001502 *21*; α(P)=1.140×10^{-5} *16*
		444.04 *3*	23 *3*	161.5	(5$^+$)	[M2]		0.313 *4*	α(K)=0.2478 *35*; α(L)=0.0497 *7*; α(M)=0.01178 *16* α(N)=0.00291 *4*; α(O)=0.000511 *7*; α(P)=3.65×10^{-5} *5* Placement of this γ may be questionable due to mult=M2 implied by ΔJ^π.
		444.70 *10*	10 *7*	160.999	1$^-$	[E2]		0.0319 *4*	α(K)=0.02311 *32*; α(L)=0.00667 *9*; α(M)=0.001623 *23* α(N)=0.000396 *6*; α(O)=6.52×10^{-5} *9*; α(P)=2.59×10^{-6} *4*
		466.60 *12*	49 *9*	138.687	1$^-$	(E2)		0.0282 *4*	α(K)=0.02069 *29*; α(L)=0.00573 *8*; α(M)=0.001389 *19* α(N)=0.000339 *5*; α(O)=5.60×10^{-5} *8*; α(P)=2.328×10^{-6} *33*
		605.76 *9*	18.6 *18*	0.0	1$^-$	[E2]		0.01508 *21*	α(K)=0.01163 *16*; α(L)=0.00264 *4*; α(M)=0.000630 *9* α(N)=0.0001538 *22*; α(O)=2.59×10^{-5} *4*; α(P)=1.322×10^{-6} *19*
613.087	(2,3,4)$^-$	93.562 *6*	47 *11*	519.517	(3)$^+$	E1		0.472 *7*	α(K)=0.380 *5*; α(L)=0.0711 *10*; α(M)=0.01644 *23* α(N)=0.00396 *6*; α(O)=0.000653 *9*; α(P)=3.24×10^{-5} *5*
		251.695[@] *17*	<53[@]	361.382	(3)$^+$	E1		0.0386 *5*	α(K)=0.0319 *4*; α(L)=0.00516 *7*; α(M)=0.001184 *17* α(N)=0.000288 *4*; α(O)=4.94×10^{-5} *7*; α(P)=3.10×10^{-6} *4*
		316.42 *4*	68 *8*	296.630	4$^-$	[M1,E2]		0.16 *8*	α(K)=0.13 *7*; α(L)=0.027 *5*; α(M)=0.0064 *11* α(N)=0.00157 *27*; α(O)=0.00027 *6*; α(P)=1.5×10^{-5} *9*

$^{194}_{77}Ir_{117}$-23

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
613.087	(2,3,4)$^-$	319.850 *4*	100 *5*	293.241	(3,4,5)$^+$	E1		0.02170 *30*	α(K)=0.01801 *25*; α(L)=0.00285 *4*; α(M)=0.000653 *9* α(N)=0.0001593 *22*; α(O)=2.75×10^{-5} *4*; α(P)=1.795×10^{-6} *25*
		342.162[@] *8*	<72[@]	270.918	(3)$^+$	E1		0.01854 *26*	α(K)=0.01540 *22*; α(L)=0.002425 *34*; α(M)=0.000555 *8* α(N)=0.0001354 *19*; α(O)=2.340×10^{-5} *33*; α(P)=1.545×10^{-6} *22*
620.522	(4)$^-$	41.42[@] *5*	<3.3[@]	579.147	(2)$^-$	[E2]		268 *4*	α(L)=202.0 *31*; α(M)=51.7 *8* α(N)=12.44 *19*; α(O)=1.881 *29*; α(P)=0.001667 *25*
		349.58 *5*	18 *4*	270.918	(3)$^+$	[E1]		0.01764 *25*	α(K)=0.01466 *21*; α(L)=0.002304 *32*; α(M)=0.000528 *7* α(N)=0.0001286 *18*; α(O)=2.225×10^{-5} *31*; α(P)=1.473×10^{-6} *21*
		435.840 *9*	45 *4*	184.689	3$^-$	M1+E2	2.6 *+32−8*	0.043 *7*	α(K)=0.032 *7*; α(L)=0.0080 *7*; α(M)=0.00192 *15* α(N)=0.00047 *4*; α(O)=7.8×10^{-5} *7*; α(P)=3.7×10^{-6} *8*
		471.581 *8*	100 *6*	148.934	(3)$^-$	M1		0.0838 *12*	α(K)=0.0695 *10*; α(L)=0.01107 *16*; α(M)=0.00254 *4* α(N)=0.000625 *9*; α(O)=0.0001109 *16*; α(P)=8.43×10^{-6} *12*
638.775	2$^-$,3$^-$	219.163 *2*	100 *5*	419.611	(3)$^-$	E2		0.254 *4*	α(K)=0.1343 *19*; α(L)=0.0905 *13*; α(M)=0.02288 *32* α(N)=0.00555 *8*; α(O)=0.000870 *12*; α(P)=1.374×10^{-5} *19*
		261.762[@] *15*	<11.9[@]	377.006	(3)$^-$	M1		0.408 *6*	α(K)=0.337 *5*; α(L)=0.0546 *8*; α(M)=0.01255 *18* α(N)=0.00309 *4*; α(O)=0.000547 *8*; α(P)=4.13×10^{-5} *6*
		342.162[@] *8*	<34.6[@]	296.630	4$^-$	[M1+E2]		0.13 *7*	α(K)=0.10 *6*; α(L)=0.021 *5*; α(M)=0.0050 *10* α(N)=0.00123 *25*; α(O)=0.00021 *5*; α(P)=1.2×10^{-5} *8*
		443.21 *7*	22 *8*	195.526	2$^-$	M1+E2	0.8 *+11−8*	0.073 *26*	α(K)=0.059 *23*; α(L)=0.0106 *25*; α(M)=0.0025 *5* α(N)=0.00061 *13*; α(O)=0.000105 *26*; α(P)=7.1×10^{-6} *29*
		454.090 *20*	48 *6*	184.689	3$^-$	M1+E2	1.6 *+10−5*	0.048 *11*	α(K)=0.037 *9*; α(L)=0.0079 *10*; α(M)=0.00188 *22* α(N)=0.00046 *6*; α(O)=7.8×10^{-5} *11*; α(P)=4.4×10^{-6} *12*
639.394	(2)$^-$	149.777[@] *14*	<8.4[@]	489.648	2$^-$	[M1+E2]		1.4 *5*	α(K)=1.0 *6*; α(L)=0.36 *10*; α(M)=0.089 *29* α(N)=0.022 *7*; α(O)=0.0035 *9*; α(P)=1.2×10^{-4} *8*
		301.800 *25*	13.5 *25*	337.648	2$^-$	[M1+E2]		0.18 *9*	α(K)=0.14 *8*; α(L)=0.031 *6*; α(M)=0.0074 *10* α(N)=0.00182 *27*; α(O)=0.00031 *6*; α(P)=1.7×10^{-5} *11*
		301.88 *3*	26 *4*	337.525	1$^-$	[M1+E2]		0.18 *9*	α(K)=0.14 *8*; α(L)=0.031 *6*; α(M)=0.0074 *10* α(N)=0.00182 *27*; α(O)=0.00031 *6*; α(P)=1.7×10^{-5} *11*
		330.418 *3*	100 *3*	308.973	1$^-$	M1		0.2164 *30*	α(K)=0.1790 *25*; α(L)=0.0288 *4*; α(M)=0.00663 *9* α(N)=0.001629 *23*; α(O)=0.000289 *4*; α(P)=2.186×10^{-5} *31*
		385.24 *3*	37 *7*	254.161	2$^-$	[M1+E2]		0.09 *5*	α(K)=0.08 *4*; α(L)=0.015 *4*; α(M)=0.0035 *9* α(N)=8.6×10^{-4} *22*; α(O)=1.5×10^{-4} *4*; α(P)=9.E−6 *5*
		394.33 *7*	29 *8*	245.110	(3)$^-$	[M1+E2]		0.09 *5*	α(K)=0.07 *4*; α(L)=0.014 *4*; α(M)=0.0033 *8*

$^{194}_{77}Ir_{117}$-24

Adopted Levels, Gammas (continued)

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

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
									α(N)=8.0×10^{-4} *21*; α(O)=1.4×10^{-4} *4*; α(P)=8.E−6 *5*

$^{194}_{77}Ir_{117}$-25

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
639.394	(2)$^-$	478.388 *11*	74 *6*	160.999	1$^-$	M1		0.0807 *11*	α(K)=0.0669 *9*; α(L)=0.01066 *15*; α(M)=0.002448 *34* α(N)=0.000602 *8*; α(O)=0.0001067 *15*; α(P)=8.11×10^{-6} *11*
		490.44 *3*	29 *6*	148.934	(3)$^-$	[M1+E2]		0.050 *25*	α(K)=0.041 *22*; α(L)=0.0074 *25*; α(M)=0.0017 *6* α(N)=4.3×10^{-4} *14*; α(O)=7.4×10^{-5} *26*; α(P)=4.8×10^{-6} *28*
		500.66 *3*	47 *12*	138.687	1$^-$	M1+E2	0.6 *+7−6*	0.059 *17*	α(K)=0.048 *15*; α(L)=0.0082 *18*; α(M)=0.0019 *4* α(N)=0.00046 *10*; α(O)=8.1×10^{-5} *18*; α(P)=5.8×10^{-6} *19*
		527.18[@] *5*	<28[@]	112.230	2$^-$	M1		0.0626 *9*	α(K)=0.0519 *7*; α(L)=0.00824 *12*; α(M)=0.001892 *26* α(N)=0.000465 *7*; α(O)=8.25×10^{-5} *12*; α(P)=6.28×10^{-6} *9*
		557.10[@] *3*	<89[@]	82.334	1$^-$	(M1+E2)		0.036 *18*	α(K)=0.029 *16*; α(L)=0.0052 *19*; α(M)=0.0012 *4* α(N)=3.0×10^{-4} *10*; α(O)=5.2×10^{-5} *19*; α(P)=3.5×10^{-6} *19*
		596.28[@] *8*	<29[@]	43.119	0$^-$	(E2)		0.01563 *22*	α(K)=0.01203 *17*; α(L)=0.00276 *4*; α(M)=0.000659 *9* α(N)=0.0001609 *23*; α(O)=2.71×10^{-5} *4*; α(P)=1.367×10^{-6} *19*
646.539	(3,4)$^+$	239.549 *15*	3.9 *7*	407.017	3$^+$	M1+E2	0.9 *+4−3*	0.37 *6*	α(K)=0.29 *6*; α(L)=0.0668 *15*; α(M)=0.01598 *23* α(N)=0.00391 *6*; α(O)=0.000658 *19*; α(P)=3.4×10^{-5} *8*
		251.695[@] *17*	<7.8[@]	394.880	4$^-$	E1		0.0386 *5*	α(K)=0.0319 *4*; α(L)=0.00516 *7*; α(M)=0.001184 *17* α(N)=0.000288 *4*; α(O)=4.94×10^{-5} *7*; α(P)=3.10×10^{-6} *4*
		285.146 *11*	9.7 *8*	361.382	(3)$^+$	M1+E2	1.2 *+8−4*	0.20 *4*	α(K)=0.15 *4*; α(L)=0.0365 *24*; α(M)=0.0088 *4* α(N)=0.00214 *11*; α(O)=0.000359 *26*; α(P)=1.8×10^{-5} *5*
		499.456 *8*	100 *4*	147.073	4$^+$	M1+E2	1.76 *+26−20*	0.0356 *23*	α(K)=0.0280 *20*; α(L)=0.00583 *24*; α(M)=0.00138 *5* α(N)=0.000338 *13*; α(O)=5.75×10^{-5} *25*; α(P)=3.28×10^{-6} *25*
669.369	(3)$^-$	126.814 *15*	38 *5*	542.588	(2)$^+$	[E1]		0.2176 *30*	α(K)=0.1772 *25*; α(L)=0.0311 *4*; α(M)=0.00719 *10* α(N)=0.001738 *24*; α(O)=0.000291 *4*; α(P)=1.571×10^{-5} *22*
		149.588 *8*	17.5 *23*	519.788	3$^-$	M1		1.941 *27*	α(K)=1.601 *22*; α(L)=0.262 *4*; α(M)=0.0603 *8* α(N)=0.01483 *21*; α(O)=0.00263 *4*; α(P)=0.0001978 *28*
		249.789 *22*	37 *6*	419.611	(3)$^-$	[M1+E2]		0.32 *15*	α(K)=0.24 *14*; α(L)=0.058 *4*; α(M)=0.0139 *5* α(N)=0.00338 *14*; α(O)=0.00057 *5*; α(P)=2.9×10^{-5} *19*
		274.473 *9*	29 *3*	394.880	4$^-$	M1		0.358 *5*	α(K)=0.296 *4*; α(L)=0.0479 *7*; α(M)=0.01101 *15* α(N)=0.00271 *4*; α(O)=0.000480 *7*; α(P)=3.63×10^{-5} *5*
		405.60 *7*	100 *14*	263.798	(4)$^+$	[E1]		0.01258 *18*	α(K)=0.01047 *15*; α(L)=0.001626 *23*; α(M)=0.000372 *5* α(N)=9.07×10^{-5} *13*; α(O)=1.575×10^{-5} *22*; α(P)=1.066×10^{-6} *15*
		424.32[@] *5*	<24[@]	245.110	(3)$^-$	[M1+E2]		0.07 *4*	α(K)=0.059 *33*; α(L)=0.0112 *35*; α(M)=0.0026 *7* α(N)=6.5×10^{-4} *18*; α(O)=1.1×10^{-4} *4*; α(P)=7.E−6 *4*
		473.76 *6*	34 *14*	195.526	2$^-$	[M1+E2]		0.055 *28*	α(K)=0.044 *24*; α(L)=0.0082 *27*; α(M)=0.0019 *6* α(N)=4.7×10^{-4} *15*; α(O)=8.1×10^{-5} *28*; α(P)=5.3×10^{-6} *30*
		520.35 *7*	45 *14*	148.934	(3)$^-$	M1+E2	0.3 *+8−3*	0.061 *20*	α(K)=0.051 *17*; α(L)=0.0082 *21*; α(M)=0.0019 *5* α(N)=0.00046 *11*; α(O)=8.2×10^{-5} *21*; α(P)=6.1×10^{-6} *22*

$^{194}_{77}Ir_{117}$-26

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.†	δ†	α#	Comments
669.369	(3)$^-$	557.10@ *3*	<148@	112.230	2$^-$	M1+E2	0.5 *+4–5*	0.047 *9*	α(K)=0.039 *8*; α(L)=0.0064 *9*; α(M)=0.00147 *21* α(N)=0.00036 *5*; α(O)=6.4×10^{-5} *10*; α(P)=4.7×10^{-6} *10*
		626.211@ *21*	<111@	43.119	0$^-$	[M3]		0.259 *4*	α(K)=0.1981 *28*; α(L)=0.0464 *6*; α(M)=0.01125 *16* α(N)=0.00278 *4*; α(O)=0.000484 *7*; α(P)=3.21×10^{-5} *4* Placement of this γ may be questionable due to implied mult=M3.
670.121	(2)$^-$	90.963 *7*	16 *6*	579.147	(2)$^-$	[M1+E2]		7.4 *6*	α(K)=3.7 *29*; α(L)=2.8 *17*; α(M)=0.7 *5* α(N)=0.17 *11*; α(O)=0.027 *16*; α(P)=4.7×10^{-4} *35*
		150.348 *7*	9.9 *14*	519.788	3$^-$	[M1,E2]		1.4 *5*	α(K)=1.0 *6*; α(L)=0.36 *10*; α(M)=0.088 *28* α(N)=0.021 *7*; α(O)=0.0035 *9*; α(P)=1.1×10^{-4} *8*
		246.397 *13*	20 *3*	423.725	(2)$^-$	M1+E2	0.8 *3*	0.36 *6*	α(K)=0.28 *6*; α(L)=0.0613 *18*; α(M)=0.01458 *24* α(N)=0.00357 *6*; α(O)=0.000606 *21*; α(P)=3.4×10^{-5} *7*
		250.53 *3*	14 *3*	419.611	(3)$^-$	[M1+E2]		0.31 *15*	α(K)=0.24 *14*; α(L)=0.057 *4*; α(M)=0.0137 *5* α(N)=0.00335 *14*; α(O)=0.00056 *5*; α(P)=2.8×10^{-5} *18*
		263.06@ *7*	<15@	407.017	3$^+$	[E1]		0.0346 *5*	α(K)=0.0287 *4*; α(L)=0.00462 *6*; α(M)=0.001060 *15* α(N)=0.000258 *4*; α(O)=4.43×10^{-5} *6*; α(P)=2.80×10^{-6} *4*
		293.12 *3*	18 *7*	377.006	(3)$^-$	M1		0.299 *4*	α(K)=0.2475 *35*; α(L)=0.0400 *6*; α(M)=0.00919 *13* α(N)=0.002260 *32*; α(O)=0.000401 *6*; α(P)=3.03×10^{-5} *4*
		391.50 *5*	45 *12*	278.504	(2)$^-$	[M1+E2]		0.09 *5*	α(K)=0.07 *4*; α(L)=0.014 *4*; α(M)=0.0033 *8* α(N)=8.2×10^{-4} *21*; α(O)=1.4×10^{-4} *4*; α(P)=9.E−6 *5*
		521.191 *7*	100 *11*	148.934	(3)$^-$	E2		0.02146 *30*	α(K)=0.01612 *23*; α(L)=0.00408 *6*; α(M)=0.000982 *14* α(N)=0.0002396 *34*; α(O)=3.99×10^{-5} *6*; α(P)=1.825×10^{-6} *26*
		531.388 *17*	60 *3*	138.687	1$^-$	M1		0.0613 *9*	α(K)=0.0508 *7*; α(L)=0.00807 *11*; α(M)=0.001853 *26* α(N)=0.000455 *6*; α(O)=8.08×10^{-5} *11*; α(P)=6.15×10^{-6} *9*
		558.07 *19*	27 *7*	112.230	2$^-$	[M1+E2]		0.036 *18*	α(K)=0.029 *15*; α(L)=0.0052 *19*; α(M)=0.0012 *4* α(N)=3.0×10^{-4} *10*; α(O)=5.2×10^{-5} *19*; α(P)=3.5×10^{-6} *19*
708.546	(2)$^-$	129.31 *4*	7 *3*	579.147	(2)$^-$	M1		2.94 *4*	α(K)=2.421 *34*; α(L)=0.397 *6*; α(M)=0.0914 *13* α(N)=0.02247 *32*; α(O)=0.00398 *6*; α(P)=0.000300 *4*
		163.896 *8*	3.7 *4*	544.676	2$^-$	M1		1.500 *21*	α(K)=1.237 *17*; α(L)=0.2021 *28*; α(M)=0.0465 *7* α(N)=0.01144 *16*; α(O)=0.002026 *28*; α(P)=0.0001527 *21* E_γ: uncertainty increased to 0.024 keV from 0.008 in the fitting procedure.
		208.322 *4*	9.0 *5*	500.218	(3)$^-$	M1+E2	0.65 *+21–20*	0.63 *6*	α(K)=0.49 *6*; α(L)=0.1055 *19*; α(M)=0.0250 *7* α(N)=0.00613 *16*; α(O)=0.001044 *15*; α(P)=5.9×10^{-5} *8*
		370.87@ *3*	<7.1@	337.648	2$^-$	M1		0.1587 *22*	α(K)=0.1313 *18*; α(L)=0.02107 *30*; α(M)=0.00484 *7* α(N)=0.001191 *17*; α(O)=0.0002111 *30*; α(P)=1.600×10^{-5} *22*
		394.516@ *25*	<7.8@	314.054	2$^-$	M1		0.1345 *19*	α(K)=0.1114 *16*; α(L)=0.01784 *25*; α(M)=0.00410 *6* α(N)=0.001008 *14*; α(O)=0.0001787 *25*; α(P)=1.355×10^{-5} *19*
		399.588 *9*	13.7 *10*	308.973	1$^-$	M1		0.1300 *18*	α(K)=0.1076 *15*; α(L)=0.01724 *24*; α(M)=0.00396 *6* α(N)=0.000974 *14*; α(O)=0.0001727 *24*; α(P)=1.310×10^{-5}

$^{194}_{77}Ir_{117}$-27

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
									18
		411.90 *4*	23 *3*	296.630	4^-	[E2]		0.0389 *5*	α(K)=0.0276 *4*; α(L)=0.00858 *12*; α(M)=0.002096 *29* α(N)=0.000511 *7*; α(O)=8.36×10^{-5} *12*; α(P)=3.08×10^{-6} *4*
		430.05 *3*	8.3 *9*	278.504	$(2)^-$	M1+E2	0.82 *+27−23*	0.078 *10*	α(K)=0.063 *9*; α(L)=0.0115 *10*; α(M)=0.00267 *21* α(N)=0.00066 *5*; α(O)=0.000114 *10*; α(P)=7.6×10^{-6} *12*
		463.462 *22*	8.6 *13*	245.110	$(3)^-$	M1+E2	0.7 *+4−3*	0.068 *13*	α(K)=0.056 *11*; α(L)=0.0097 *13*; α(M)=0.00225 *27* α(N)=0.00055 *7*; α(O)=9.7×10^{-5} *13*; α(P)=6.7×10^{-6} *14*

$^{194}_{77}Ir_{117}$-28

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.†	δ†	α#	Comments
708.546	(2)$^-$	513.017 *14*	29.1 *22*	195.526	2$^-$	M1+E2	0.57 *25*	0.056 *7*	α(K)=0.046 *6*; α(L)=0.0077 *7*; α(M)=0.00179 *16* α(N)=0.00044 *4*; α(O)=7.7×10^{-5} *7*; α(P)=5.6×10^{-6} *8*
		547.558 *12*	53.0 *22*	160.999	1$^-$	M1		0.0567 *8*	α(K)=0.0470 *7*; α(L)=0.00746 *10*; α(M)=0.001712 *24* α(N)=0.000421 *6*; α(O)=7.46×10^{-5} *10*; α(P)=5.68×10^{-6} *8*
		565.02 *4*	7.5 *10*	143.595	0$^-$	[E2]		0.01771 *25*	α(K)=0.01351 *19*; α(L)=0.00322 *5*; α(M)=0.000771 *11* α(N)=0.0001881 *26*; α(O)=3.15×10^{-5} *4*; α(P)=1.533×10^{-6} *21*
		596.28@ *8*	<9.0@	112.230	2$^-$	M1+E2		0.031 *15*	α(K)=0.025 *13*; α(L)=0.0044 *16*; α(M)=1.01×10^{-3} *35* α(N)=2.5×10^{-4} *9*; α(O)=4.3×10^{-5} *16*; α(P)=3.0×10^{-6} *16*
		626.211@ *21*	<20.9@	82.334	1$^-$	M1		0.0400 *6*	α(K)=0.0332 *5*; α(L)=0.00525 *7*; α(M)=0.001203 *17* α(N)=0.000296 *4*; α(O)=5.25×10^{-5} *7*; α(P)=4.00×10^{-6} *6*
		708.547 *17*	100 *4*	0.0	1$^-$	[M1+E2]		0.020 *9*	α(K)=0.016 *8*; α(L)=0.0028 *10*; α(M)=6.4×10^{-4} *23* α(N)=1.6×10^{-4} *6*; α(O)=2.8×10^{-5} *11*; α(P)=1.9×10^{-6} *10*
722.760	3$^+$	132.007 *13*	4.8 *16*	590.727	(2,3)$^+$	M1		2.77 *4*	α(K)=2.283 *32*; α(L)=0.374 *5*; α(M)=0.0862 *12* α(N)=0.02118 *30*; α(O)=0.00375 *5*; α(P)=0.000282 *4*
		203.241 *13*	6.9 *9*	519.517	(3)$^+$	M1		0.821 *11*	α(K)=0.678 *9*; α(L)=0.1103 *15*; α(M)=0.0254 *4* α(N)=0.00624 *9*; α(O)=0.001105 *15*; α(P)=8.34×10^{-5} *12*
		204.187 *3*	32.4 *10*	518.575	2$^+$	M1		0.810 *11*	α(K)=0.669 *9*; α(L)=0.1088 *15*; α(M)=0.02505 *35* α(N)=0.00616 *9*; α(O)=0.001091 *15*; α(P)=8.23×10^{-5} *12*
		236.78 *6*	2.5 *14*	486.064	2$^-$	[E1]		0.0448 *6*	α(K)=0.0370 *5*; α(L)=0.00602 *8*; α(M)=0.001383 *19* α(N)=0.000336 *5*; α(O)=5.76×10^{-5} *8*; α(P)=3.57×10^{-6} *5*
		385.16 *6*	18 *3*	337.648	2$^-$	[E1]		0.01413 *20*	α(K)=0.01176 *16*; α(L)=0.001833 *26*; α(M)=0.000419 *6* α(N)=0.0001023 *14*; α(O)=1.774×10^{-5} *25*; α(P)=1.192×10^{-6} *17*
		444.25@ *11*	<20@	278.504	(2)$^-$	[E1]		0.01028 *14*	α(K)=0.00857 *12*; α(L)=0.001321 *19*; α(M)=0.000302 *4* α(N)=7.37×10^{-5} *10*; α(O)=1.281×10^{-5} *18*; α(P)=8.78×10^{-7} *12*
		451.83 *3*	19.0 *18*	270.918	(3)$^+$	M1+E2	1.3 *+6−4*	0.054 *11*	α(K)=0.043 *10*; α(L)=0.0086 *11*; α(M)=0.00203 *24* α(N)=0.00050 *6*; α(O)=8.5×10^{-5} *11*; α(P)=5.1×10^{-6} *13*
		527.18@ *5*	<17@	195.526	2$^-$	[E1]		0.00712 *10*	α(K)=0.00595 *8*; α(L)=0.000904 *13*; α(M)=0.0002062 *29* α(N)=5.04×10^{-5} *7*; α(O)=8.79×10^{-6} *12*; α(P)=6.16×10^{-7} *9*
		538.03 *3*	19 *5*	184.689	3$^-$	[E1]		0.00682 *10*	α(K)=0.00570 *8*; α(L)=0.000865 *12*; α(M)=0.0001973 *28* α(N)=4.82×10^{-5} *7*; α(O)=8.42×10^{-6} *12*; α(P)=5.91×10^{-7} *8*
		575.691 *10*	100 *6*	147.073	4$^+$	M1		0.0498 *7*	α(K)=0.0413 *6*; α(L)=0.00654 *9*; α(M)=0.001500 *21* α(N)=0.000369 *5*; α(O)=6.54×10^{-5} *9*; α(P)=4.99×10^{-6} *7*
738.345	(3)$^+$	125.221 *20*	8.3 *22*	613.087	(2,3,4)$^-$	[E1]		0.2247 *31*	α(K)=0.1829 *26*; α(L)=0.0322 *5*; α(M)=0.00744 *10* α(N)=0.001798 *25*; α(O)=0.000301 *4*; α(P)=1.620×10^{-5} *23*
		138.947 *4*	20 *3*	599.405	(2,3)$^-$	[E1]		0.1722 *24*	α(K)=0.1406 *20*; α(L)=0.02436 *34*; α(M)=0.00562 *8* α(N)=0.001360 *19*; α(O)=0.0002283 *32*; α(P)=1.263×10^{-5} *18*

$^{194}_{77}Ir_{117}$-29

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[†]	δ[†]	α[#]	Comments
738.345	(3)$^+$	147.630 *9*	20 *4*	590.727	(2,3)$^+$	M1+E2	1.2 *+9−5*	1.42 *26*	α(K)=0.89 *34*; α(L)=0.40 *6*; α(M)=0.100 *17* α(N)=0.024 *4*; α(O)=0.0039 *5*; α(P)=1.1×10^{-4} *4*
		193.69 *7*	4.8 *21*	544.676	2$^-$	[E1]		0.0740 *10*	α(K)=0.0609 *9*; α(L)=0.01011 *14*; α(M)=0.002325 *33* α(N)=0.000565 *8*; α(O)=9.60×10^{-5} *13*; α(P)=5.73×10^{-6} *8*
		218.812 *9*	13.8 *14*	519.517	(3)$^+$	M1+E2	1.2 *+4−3*	0.42 *6*	α(K)=0.31 *6*; α(L)=0.0905 *13*; α(M)=0.0221 *5* α(N)=0.00538 *10*; α(O)=0.000885 *13*; α(P)=3.6×10^{-5} *8*
		321.68 *3*	12.8 *16*	416.589	(4)$^-$	[E1]		0.02141 *30*	α(K)=0.01777 *25*; α(L)=0.00281 *4*; α(M)=0.000645 *9* α(N)=0.0001571 *22*; α(O)=2.71×10^{-5} *4*; α(P)=1.772×10^{-6} *25*
		343.51 *3*	11.5 *16*	394.880	4$^-$	[E1]		0.01837 *26*	α(K)=0.01526 *21*; α(L)=0.002402 *34*; α(M)=0.000550 *8* α(N)=0.0001341 *19*; α(O)=2.319×10^{-5} *32*; α(P)=1.531×10^{-6} *21*
		424.32[@] *5*	<10.1[@]	314.054	2$^-$	[E1]		0.01138 *16*	α(K)=0.00948 *13*; α(L)=0.001466 *21*; α(M)=0.000335 *5* α(N)=8.18×10^{-5} *11*; α(O)=1.421×10^{-5} *20*; α(P)=9.68×10^{-7} *14*
		467.413 *6*	100 *4*	270.918	(3)$^+$	M1		0.0858 *12*	α(K)=0.0711 *10*; α(L)=0.01134 *16*; α(M)=0.00260 *4* α(N)=0.000640 *9*; α(O)=0.0001135 *16*; α(P)=8.63×10^{-6} *12*
		553.77 *5*	18 *4*	184.689	3$^-$	[E1]		0.00642 *9*	α(K)=0.00537 *8*; α(L)=0.000813 *11*; α(M)=0.0001853 *26* α(N)=4.53×10^{-5} *6*; α(O)=7.91×10^{-6} *11*; α(P)=5.57×10^{-7} *8*
		576.819 *18*	44 *6*	161.5	(5$^+$)	[E2]		0.01688 *24*	α(K)=0.01291 *18*; α(L)=0.00303 *4*; α(M)=0.000725 *10* α(N)=0.0001771 *25*; α(O)=2.97×10^{-5} *4*; α(P)=1.467×10^{-6} *21*
		653.93 *10*	16 *4*	84.284	2$^-$	[E1]		0.00457 *6*	α(K)=0.00383 *5*; α(L)=0.000573 *8*; α(M)=0.0001304 *18* α(N)=3.19×10^{-5} *4*; α(O)=5.59×10^{-6} *8*; α(P)=4.01×10^{-7} *6*
(6066.79)	1$^+$,2$^+$	4364.3 *9*	11 *5*	1702.5					
		4371.4 *14*	11 *5*	1695.4					
		4382.0 *14*	2.6 *18*	1684.8					
		4394.7 *10*	6 *5*	1672.1					
		4401.6 *11*	9 *5*	1665.2					
		4412.6 *10*	4.5 *18*	1654.1					
		4424.9 *10*	5.3 *18*	1641.8					
		4435.0 *13*	5 *3*	1631.7					
		4442.4 *6*	10.5 *18*	1624.3					
		4454.6 *7*	11 *3*	1612.1					
		4461.8 *9*	7 *3*	1604.9					
		4472.5 *6*	13.2 *18*	1594.2					
		4487.4 *7*	9 *3*	1579.3					
		4494.8 *7*	19 *4*	1571.9					
		4505.3 *7*	5.3 *18*	1561.4					
		4524.4 *7*	7.9 *18*	1542.3					
		4546.0 *11*	8 *3*	1520.7					
		4559.8 *21*	4.5 *18*	1506.9					
		4577.3 *7*	24 *5*	1489.4					
		4584.6 *7*	17 *5*	1482.1					
		4599.8 *7*	19 *5*	1466.9					

$^{194}_{77}Ir_{117}$-30

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	E_γ †	I_γ †	E_f	E_i(level)	E_γ †	I_γ †	E_f	J^π_f
(6066.79)	4612.5 *8*	21 *5*	1454.2	(6066.79)	5204.9 *8*	4.5 *18*	861.8	
	4621[a] *3*	<14	1446?		5231.6 *6*	10 *4*	835.1	
	4627[a] *4*	<9.5	1440?		5246.6 *10*	13 *7*	820.1	
	4643.4 *6*	32 *5*	1423.3		5261.1 *9*	18 *5*	805.6	
	4665.8 *7*	4.5 *8*	1400.9		5264.8 *10*	18 *11*	801.9	
	4677.6 *6*	11.3 *18*	1389.1		5281.8 *7*	17 *3*	784.9	
	4690[a] *3*	<2.6	1377?		5291.2 *5*	17 *5*	775.5	
	4698.1 *15*	1.8 *18*	1368.6		5300.3 *11*	17 *5*	766.4	
	4713.9 *6*	4.5 *18*	1352.8		5308.3 *13*	3.4 *18*	758.4	
	4734.5 *8*	6.1 *18*	1332.2		5315.4 *7*	29 *6*	751.3	
	4742.9 *9*	6.1 *18*	1323.8		5345.0 *6*	15 *3*	722.760	3^+
	4754.8 *4*	42 *8*	1311.9		5357.9 *5*	47 *8*	708.546	$(2)^-$
	4778.7[a] *17*	<4.5	1288.0?		5368.0 *8*	7 *4*	698.7	
	4785.2 *9*	6.1 *18*	1281.5		5376.7 *12*	6 *3*	690.0	
	4794.7 *7*	7.9 *18*	1272.0		5385.9 *9*	13 *5*	680.8	
	4808.3 *7*	18 *4*	1258.4		≈5398	5 *4*	669.369	$(3)^-$
	4827.2 *7*	23 *6*	1239.5		≈5406	5 *4*	662.3	(4^-)
	4839.3 *5*	32 *6*	1227.4		≈5413	1.8 *18*	656.42	
	4855.5 *6*	35 *6*	1211.2		5426.5 *7*	8 *3*	639.394	$(2)^-$
	4875.4 *12*	12 *5*	1191.3		5466.7 *5*	61 *16*	599.405	$(2,3)^-$
	4892.4 *10*	12 *7*	1174.3		5475.4 *10*	8 *5*	590.727	$(2,3)^+$
	4921.1 *7*	10.5 *18*	1145.6		5487.6 *5*	37 *3*	579.147	$(2)^-$
	4930.8 *9*	23 *6*	1135.9		5519.2 *12*	24 *8*	547.6	
	4952.3 *8*	7 *3*	1114.4		5563.5 *6*	28 *4*	501.814	$(2)^-$
	4967.6 *7*	18 *7*	1099.1		5577.1 *4*	17 *5*	489.648	2^-
	4979.5 *8*	21 *4*	1087.2		5630.7 *4*	39 *4*	436.295	2^-
	4991.8 *11*	13 *4*	1074.9		5643.5 *4*	36 *4*	423.725	$(2)^-$
	5006.5 *7*	14 *3*	1060.2		5678.0 *14*	6 *4*	390.963	$(1,2)^-$
	5014.4 *9*	32 *11*	1052.3		5728.7 *3*	100 *11*	337.648	2^-
	5028.2 *5*	47 *11*	1038.5		5750.1 *17*	6 *4*	314.054	2^-
	5058.4 *7*	5.3 *18*	1008.3		5757.5 *17*	6 *4*	308.973	1^-
	5071.9 *5*	38 *5*	994.8		5787.4 *5*	50 *11*	278.504	$(2)^-$
	5090.6 *7*	24 *3*	976.1		5814.0 *8*	13 *5*	254.161	2^-
	5097.5[a] *16*	<6.8	969.2		5821.5 *4*	58 *5*	245.110	$(3)^-$
	5109.7 *6*	18 *8*	957.0		5871.5 *7*	4.5 *8*	195.526	2^-
	5116.2[a] *16*	<6.1	950.5?		5882.5 *6*	18 *4*	184.689	3^-
	5128.9 *8*	17 *3*	937.8		5905.0 *7*	19 *4*	160.999	1^-
	5140.1 *9*	14 *3*	926.6		5918.2 *4*	32 *4*	148.934	$(3)^-$
	5158.4 *6*	18 *8*	908.3		5928.2 *4*	26 *6*	138.687	1^-
	5169.0 *10*	5.3 *18*	897.7		5954.7 *4*	74 *11*	112.230	2^-
	5180.7 *6*	32 *8*	886.0		5984.2 *5*	30 *5*	82.334	1^-
	5184.9 *6*	17 *3*	881.8		6023.9 *15*	9 *4*	43.119	0^-
	5189.5 *10*	14 *6*	877.2		6067.0 *4*	32 *3*	0.0	1^-

$^{194}_{77}Ir_{117}$-31

Adopted Levels, Gammas (continued)

γ(^{194}Ir) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Comments
(6068.8)	(1⁺,2⁺)	5489.6 *4*	52 *3*	579.147	(2)⁻	
		5522.8 *3*	74 *5*	544.676	2⁻	
		5568.0 *3*	64 *2*	501.814	(2)⁻	
		5580.9 *2*	58 *2*	489.648	2⁻	
		5632.8 *8*	36 *2*	436.295	2⁻	
		5647.9 *2*	62 *6*	419.611	(3)⁻	
		5678.7 *2*	25 *2*	390.963	(1,2)⁻	
		5692.6 *3*	29 *2*	377.006	(3)⁻	
		5721.9 *4*	27 *2*	347.055	3⁻	
		5731.6 *2*	100 *3*	337.525	1⁻	The 5731.6γ can feed either of the 337.525 or 337.648 levels.
		5754.4 *5*	38 *7*	314.054	2⁻	
		5759.9 *5*	57 *6*	308.973	1⁻	
		5790.9 *1*	45 *2*	278.504	(2)⁻	
		5814.4 *2*	46 *2*	254.161	2⁻	
		5823.6 *2*	34 *2*	245.110	(3)⁻	The 5845.6γ can also feed the 245.99 level.
		5873.5 *1*	56 *3*	195.526	2⁻	
		5884.7 *4*	21 *2*	184.689	3⁻	
		5908.0 *2*	46 *2*	160.999	1⁻	
		5921.1 *2*	43 *3*	147.073	4⁺	
		5929.6 *3*	63 *3*	138.687	1⁻	
		5956.8 *2*	57 *2*	112.230	2⁻	
		5985.6 *6*	99 *2*	82.334	1⁻	
		6025.1 *4*	11 *2*	43.119	0⁻	
		6069.0 *2*	54 *2*	0.0	1⁻	
(6090.8)	(0⁻,1,2,3⁻)	5590.0 *3*	115 *12*	501.814	(2)⁻	
		5602.9 *2*	47 *12*	489.648	2⁻	
		5654.8 *8*	60 *8*	436.295	2⁻	
		5669.9 *2*	123 *9*	419.611	(3)⁻	
		5700.7 *2*	36 *9*	390.963	(1,2)⁻	
		5714.6 *3*	57 *9*	377.006	(3)⁻	
		5743.9 *4*	64 *9*	347.055	3⁻	
		5753.6 *2*	100 *9*	337.525	1⁻	The 5753.6γ can feed either of the 337.525 or 337.648 levels.
		5776.4 *5*	42 *10*	314.054	2⁻	
		5781.9 *5*	51 *10*	308.973	1⁻	
		5812.9 *1*	74 *9*	278.504	(2)⁻	
		5836.4 *2*	36 *7*	254.161	2⁻	
		5845.6 *2*	29 *7*	245.110	(3)⁻	The 5845.6γ can also feed the 245.99 level.
		5895.5 *1*	67 *10*	195.526	2⁻	
		5906.7 *4*	44 *10*	184.689	3⁻	
		5930.0 *2*	25 *10*	160.999	1⁻	
		5943.1 *2*	17 *10*	147.073	4⁺	
		5951.6 *3*	37 *12*	138.687	1⁻	
		5978.8 *2*	52 *11*	112.230	2⁻	

$^{194}_{77}Ir_{117}$-32

Adopted Levels, Gammas (continued)

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

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
(6090.8)	$(0^-,1,2,3^-)$	6007.6 *6*	118 *20*	82.334	1^-
		6047.1 *4*	23 *7*	43.119	0^-
		6091.0 *2*	55 *7*	0.0	1^-

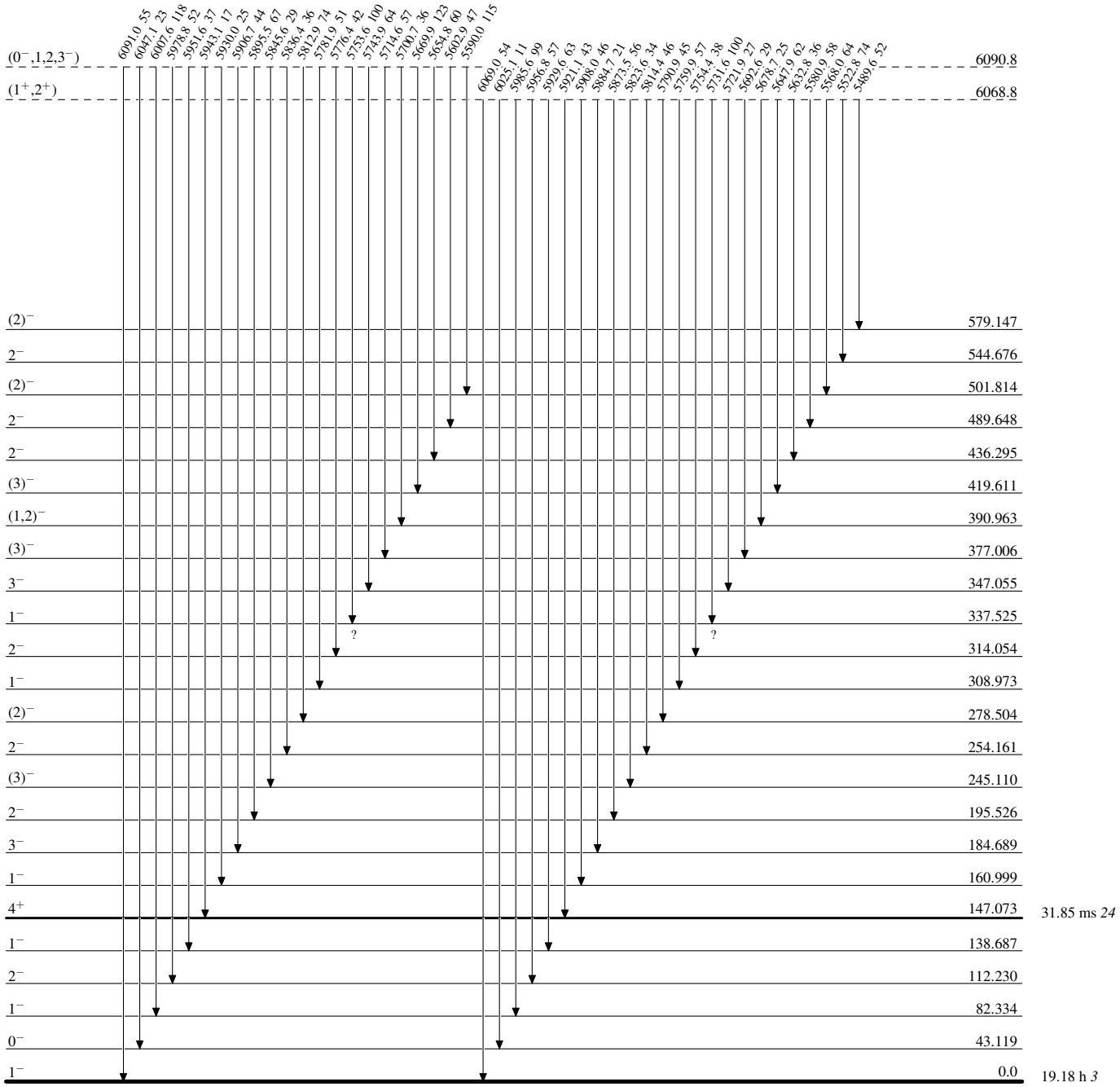
† From ^{193}Ir(n,γ) E=th, unless otherwise specified.
‡ From ^{194}Ir IT decay (31.85 ms).
# Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
@ Multiply placed with undivided intensity.
& Multiply placed with intensity suitably divided.
a Placement of transition in the level scheme is uncertain.

$^{194}_{77}Ir_{117}$-33

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

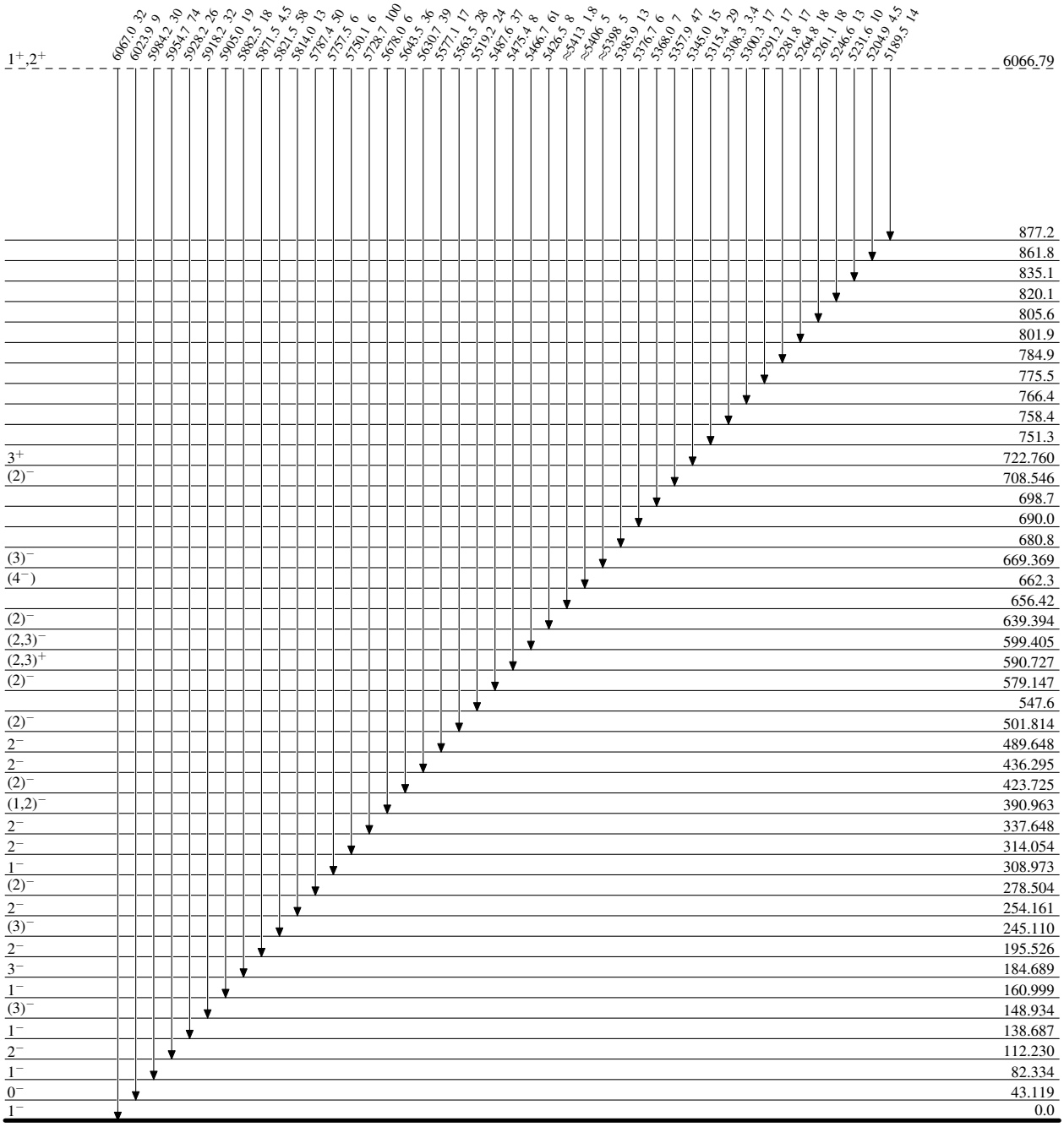


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{194}_{77}Ir_{117}$

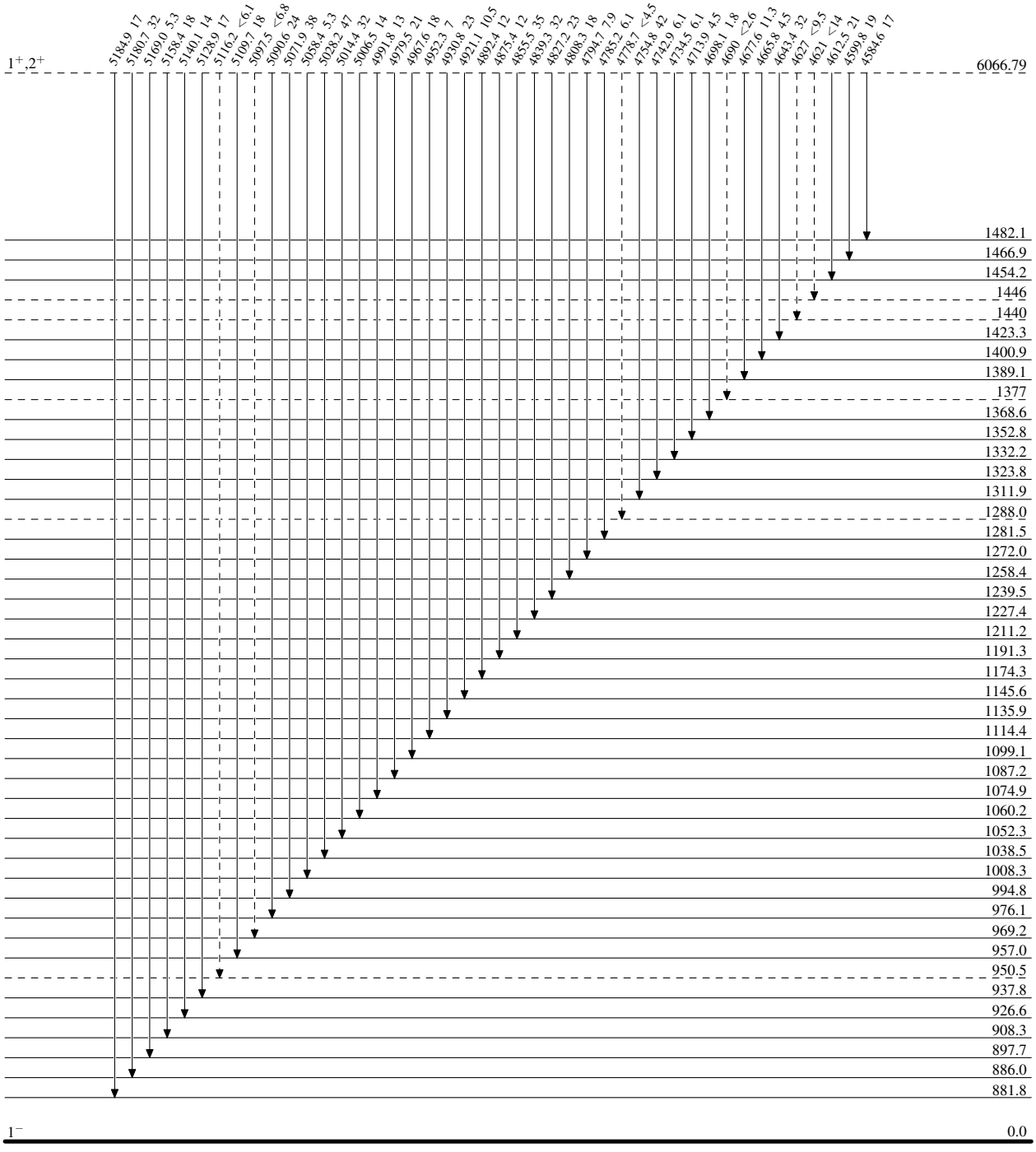
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

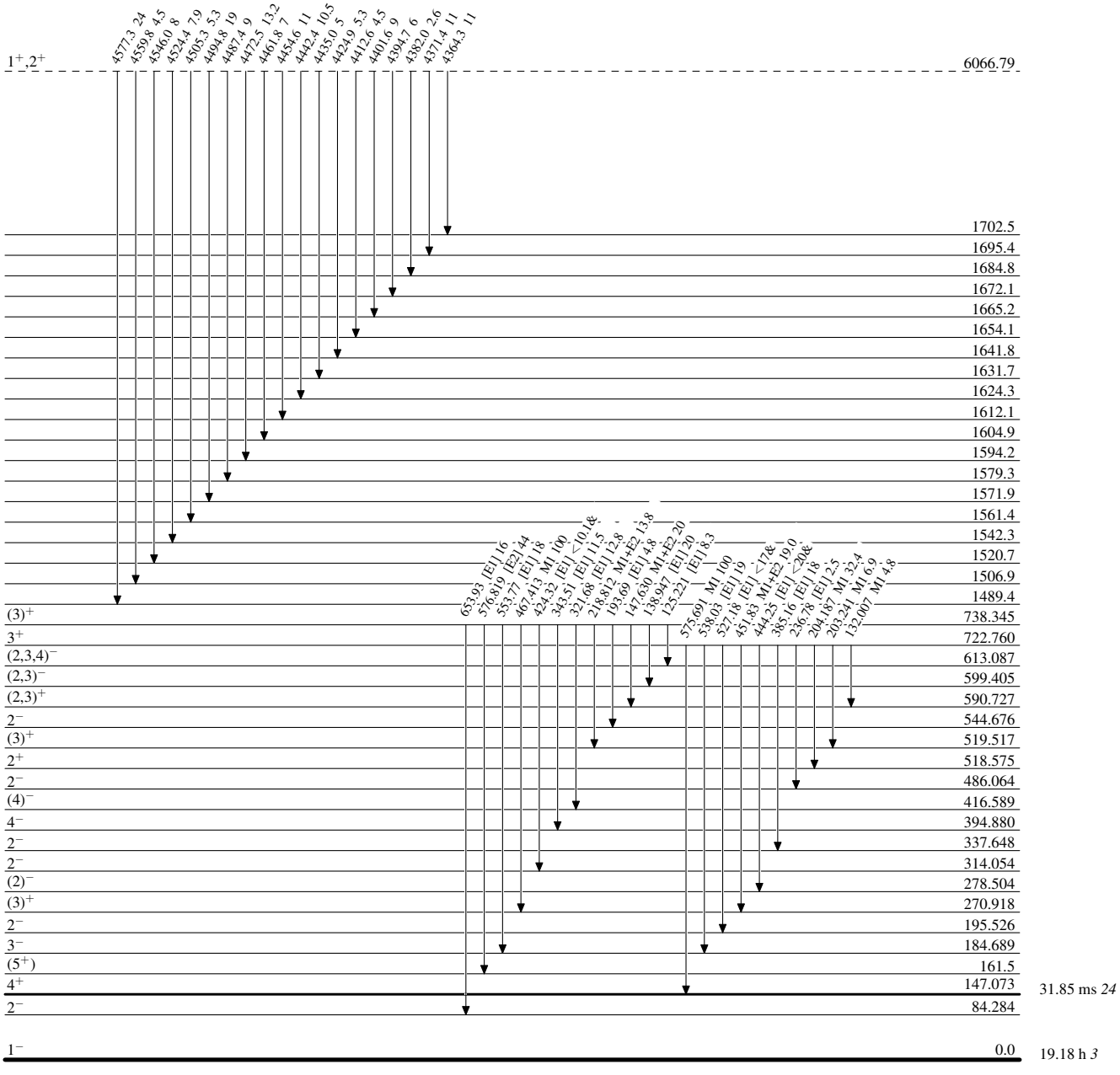


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

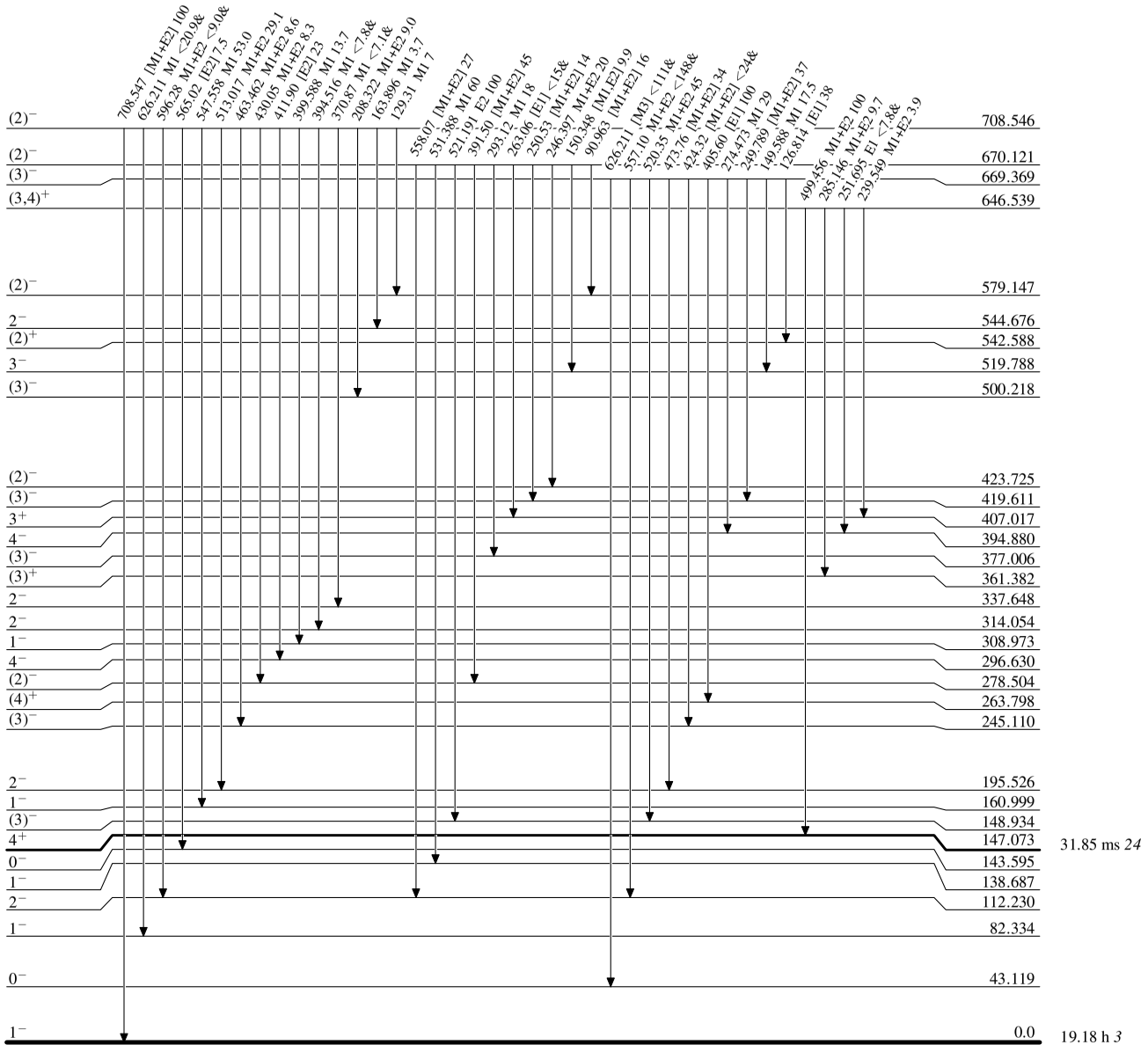


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

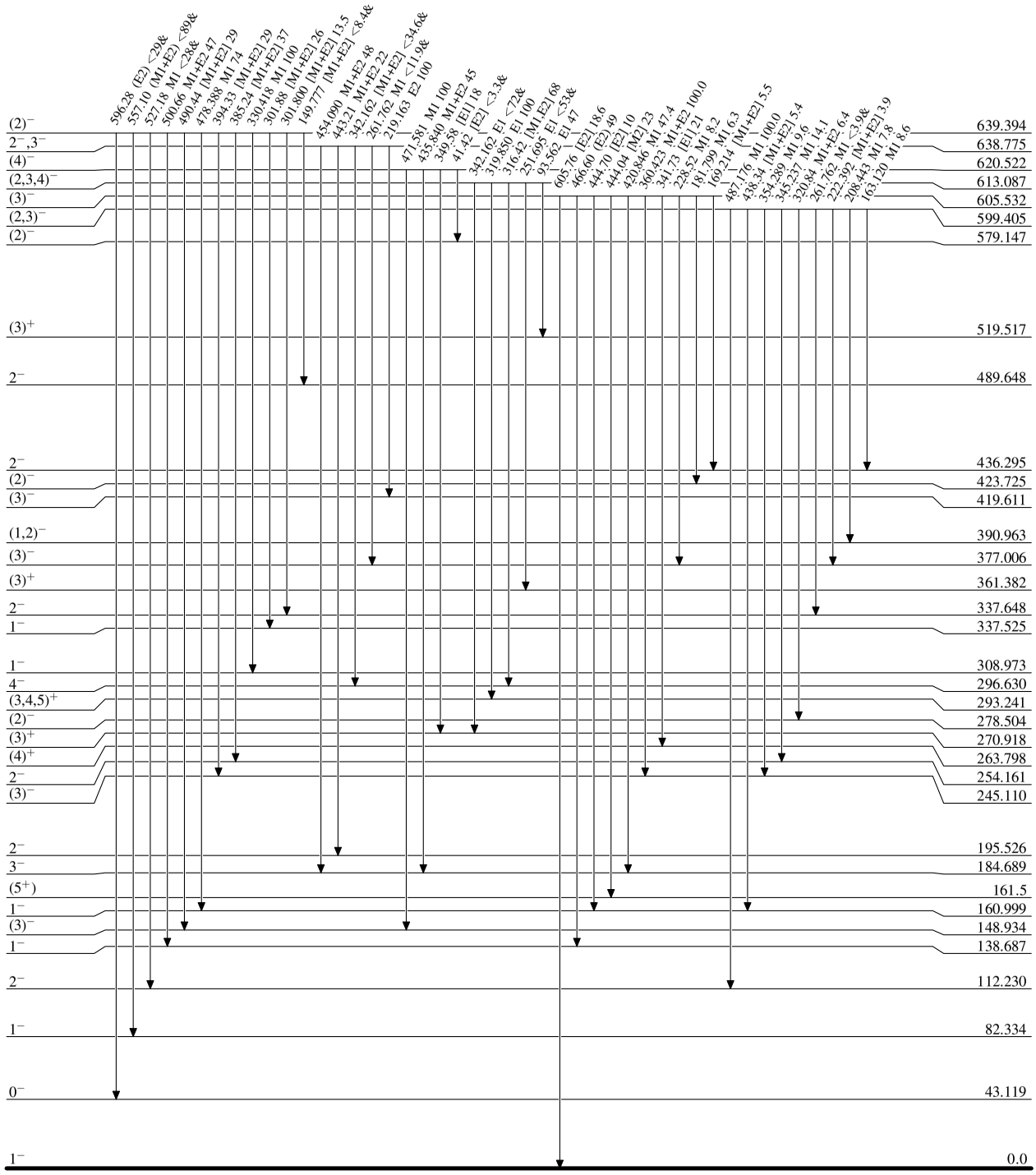


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

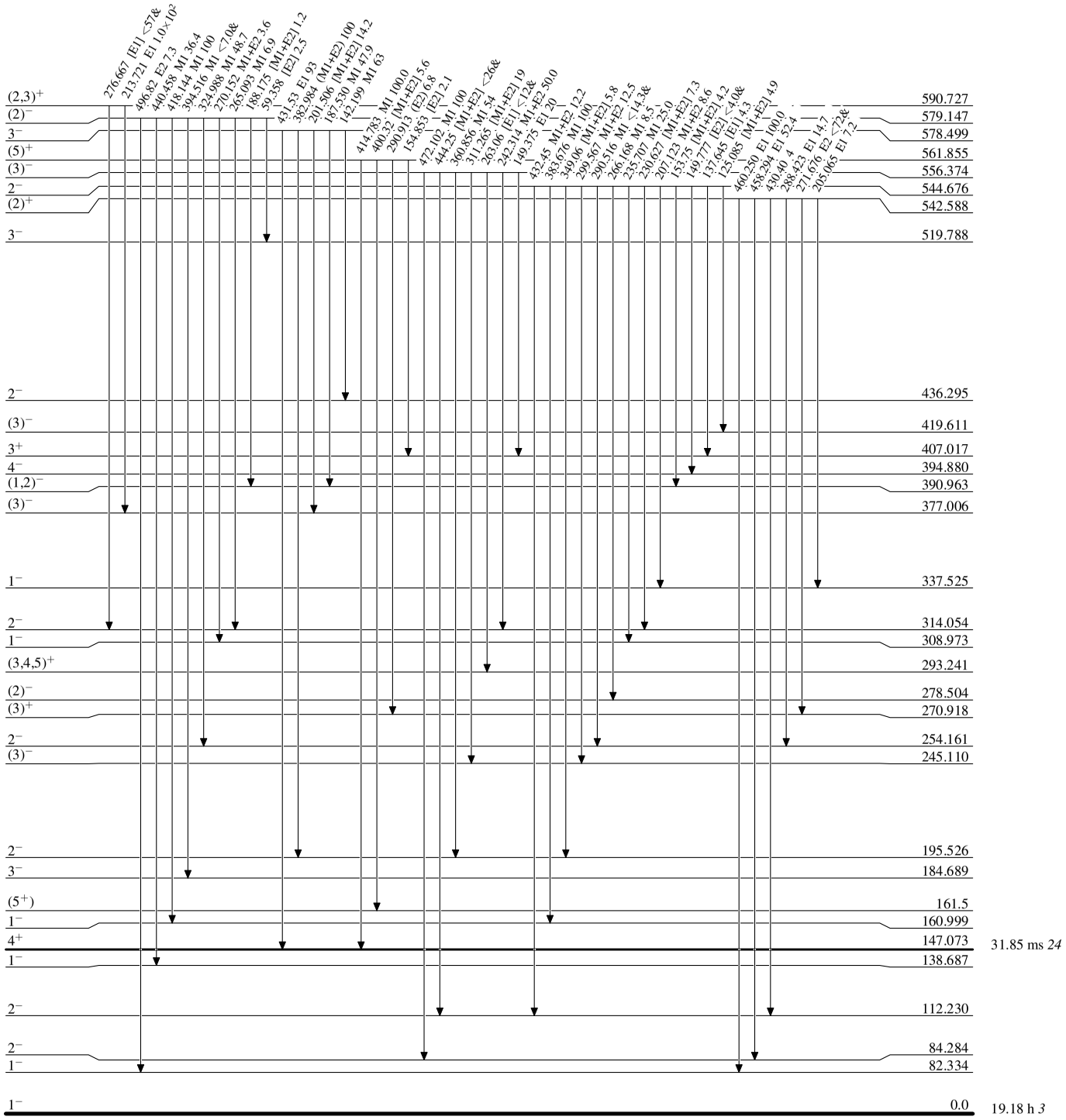


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

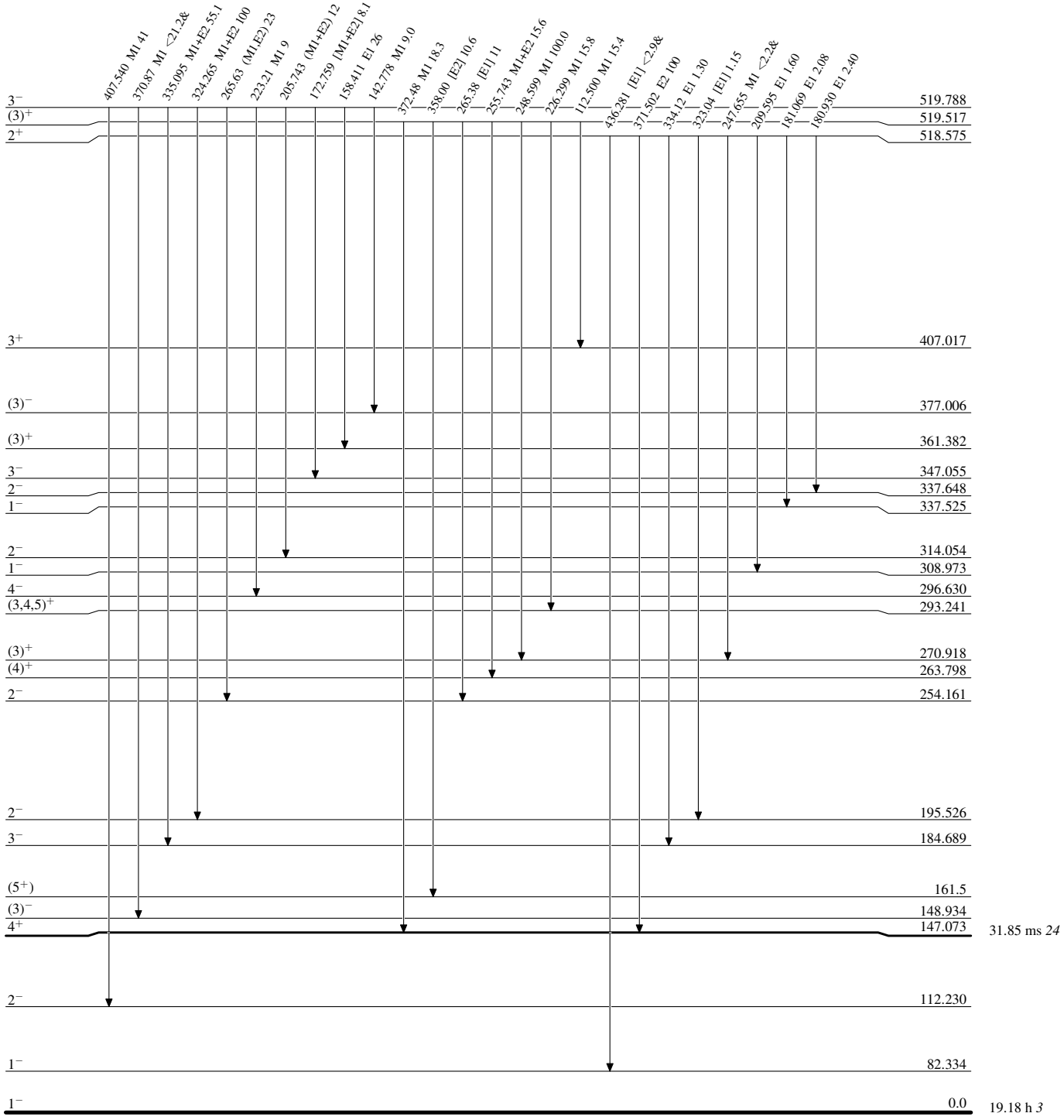


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

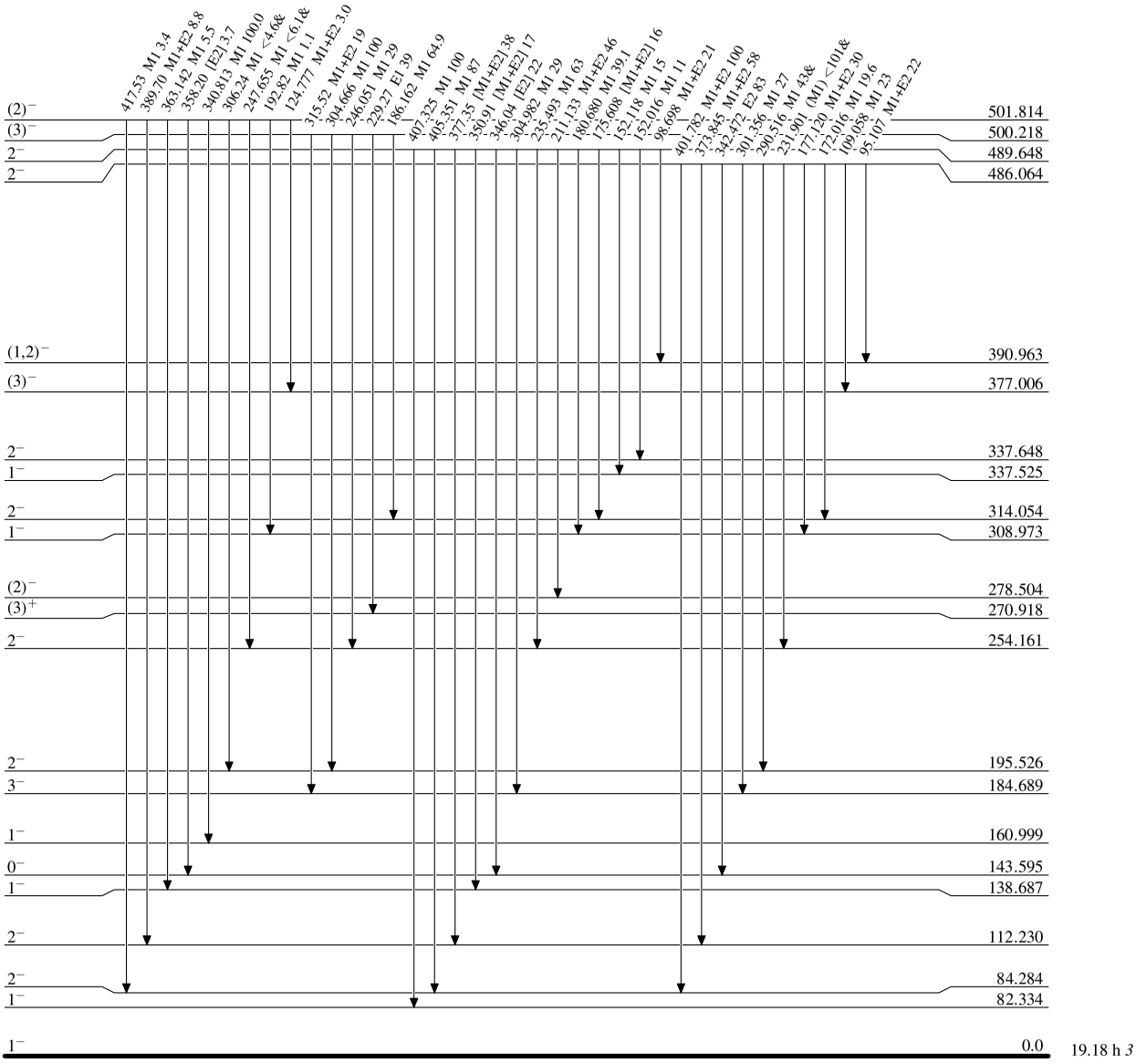


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

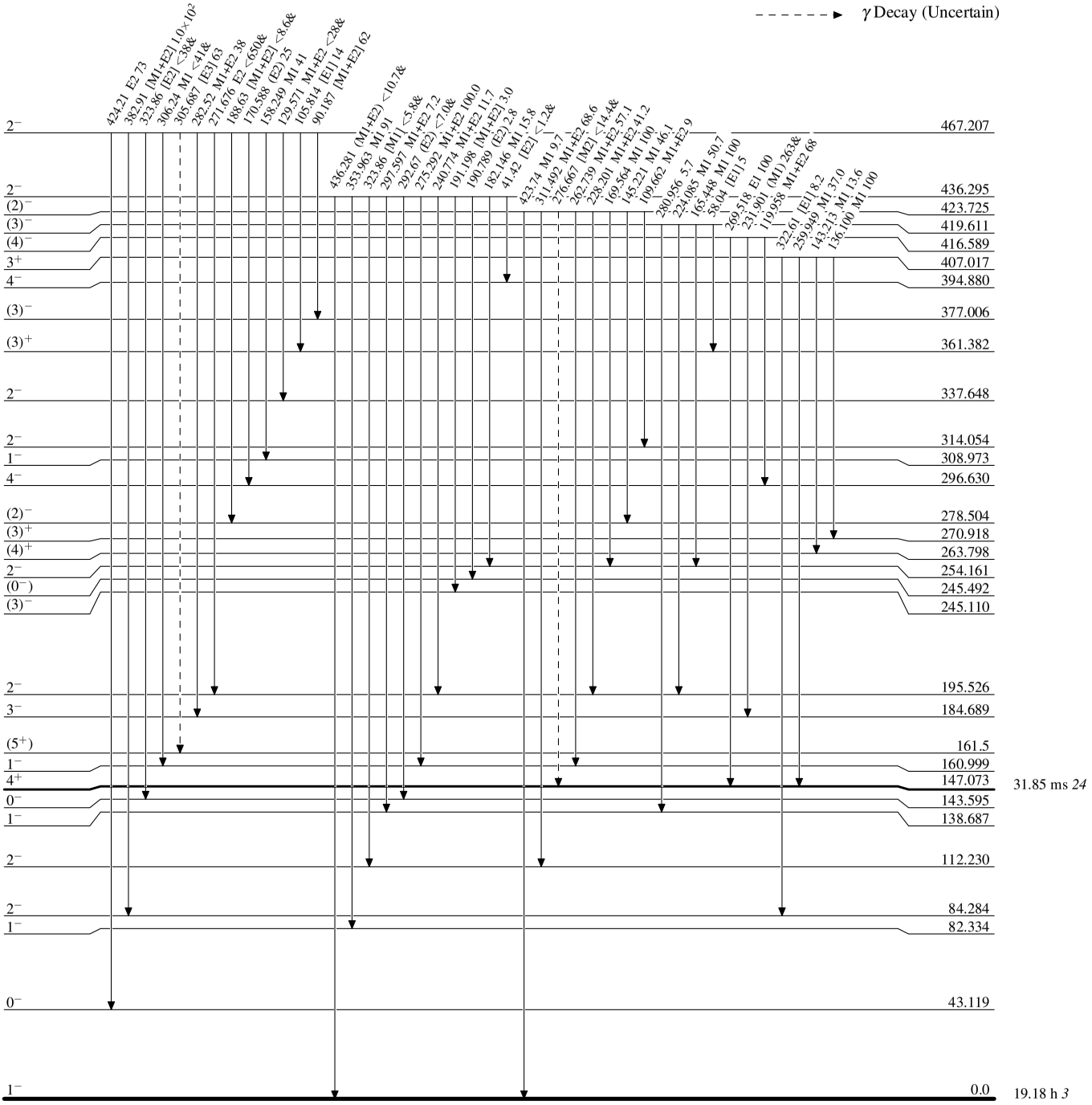


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

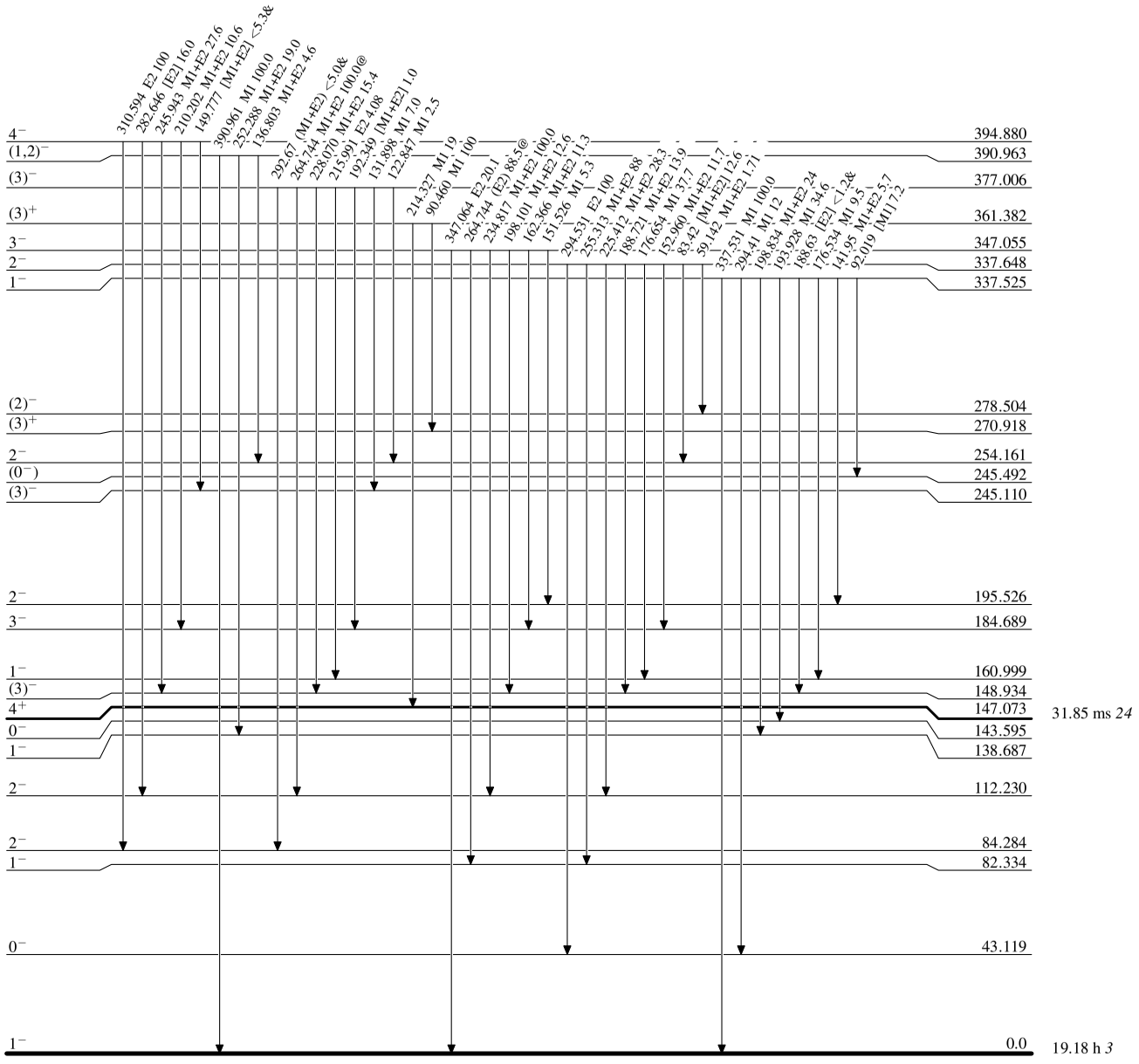


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

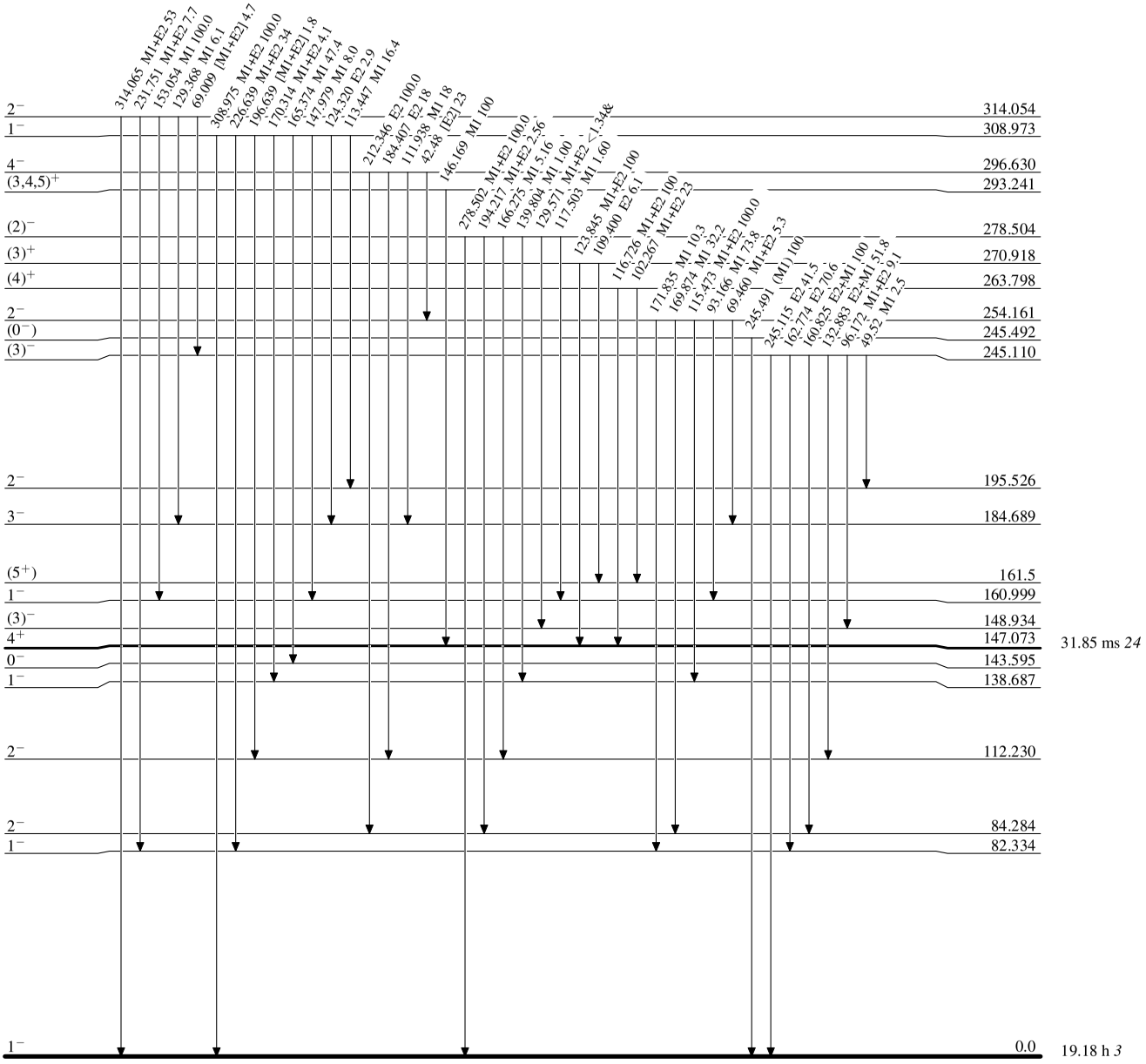


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

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

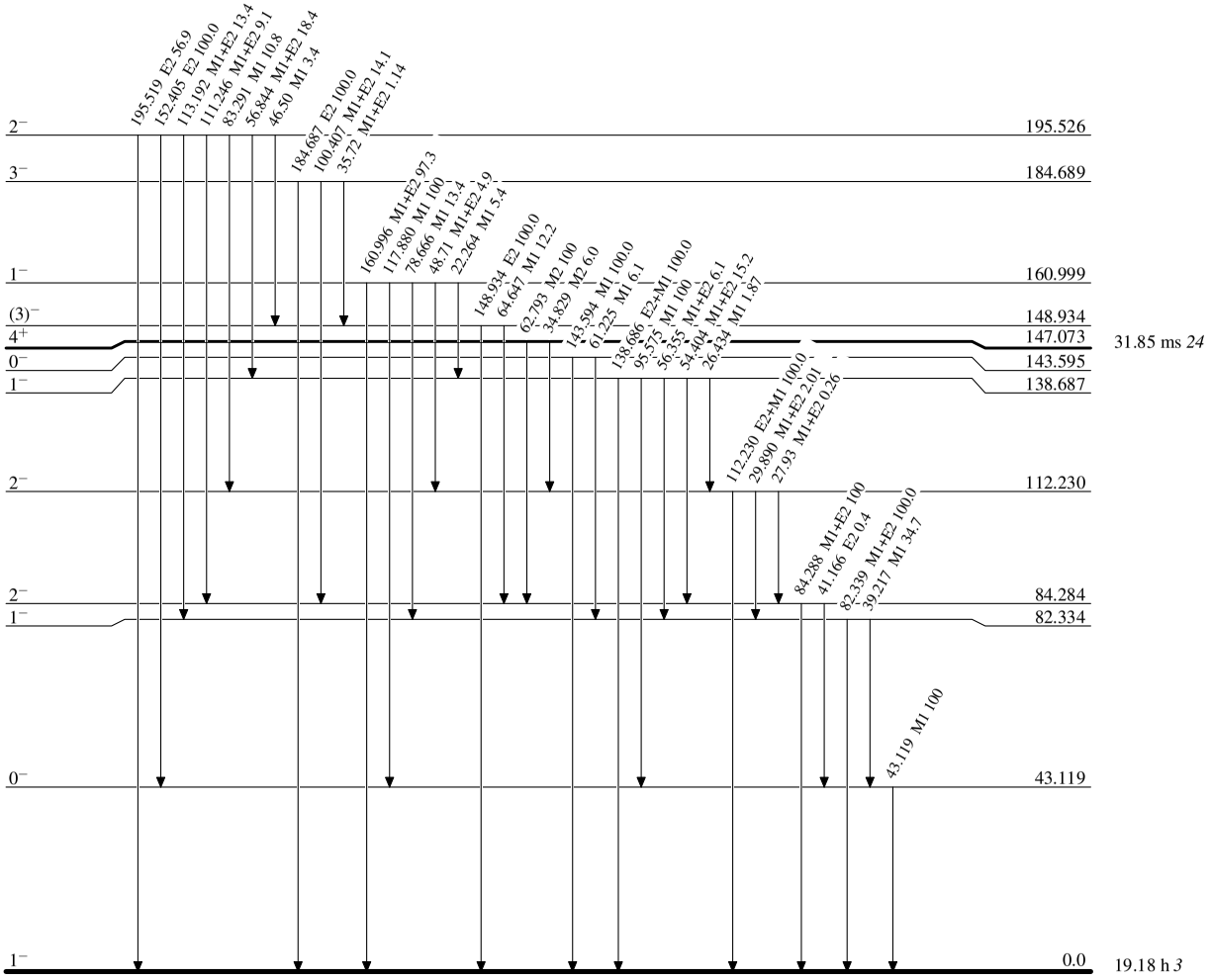


$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas

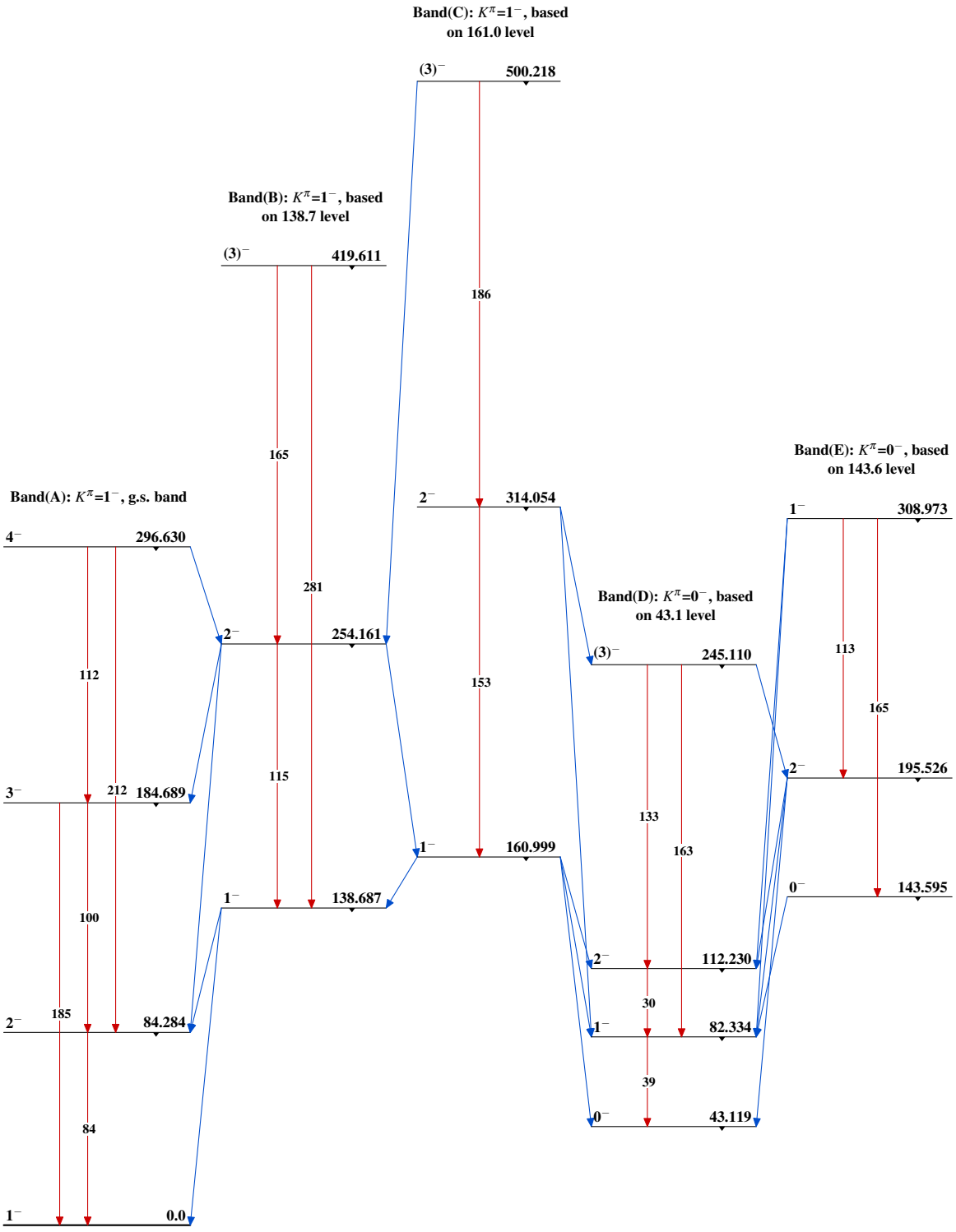
Level Scheme (continued)

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



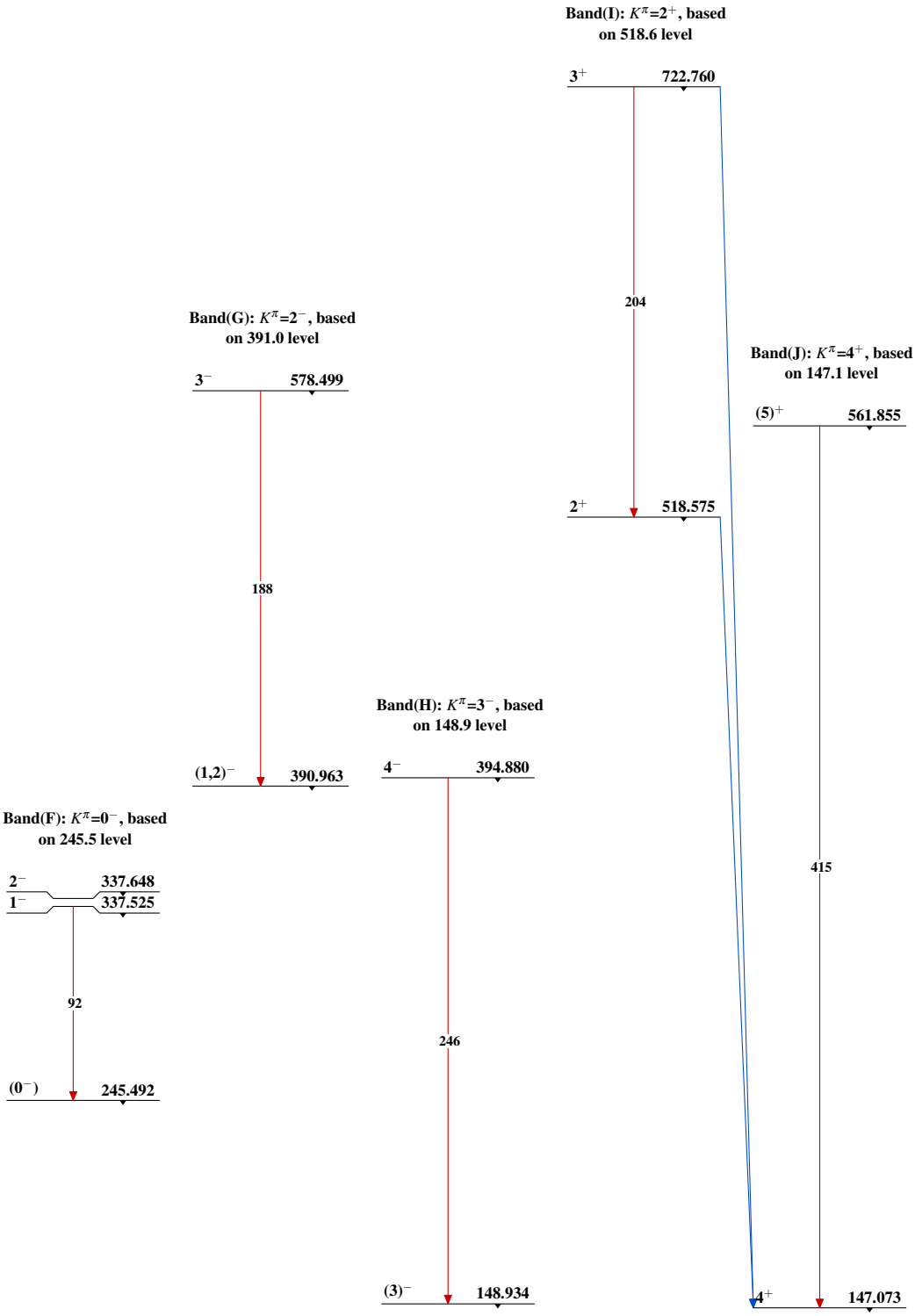
$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas



$^{194}_{77}Ir_{117}$

Adopted Levels, Gammas (continued)



$^{194}_{77}Ir_{117}$