Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 109,1383 (2008)	1-Mar-2008

Q(β^-)=1509 *13*; S(n)=8573 *14*; S(p)=7830 *14*; Q(α)=−4687 *16* 2012Wa38
Note: Current evaluation has used the following Q record 1504 12 *8573* 14 *7830* 14-4691 16 2003Au03.

^{107}Rh Levels

Cross Reference (XREF) Flags

A	^{107}Ru β^- decay
B	^{108}Pd(d,^{3}He)
C	^{108}Pd(pol t,α)
D	^{176}Yb(^{28}Si,Fγ)

E(level)[†]	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	7/2$^+$	21.7 min *4*	ABCD	%β^-=100 T$_{1/2}$: av: 23.0 min *5* (1955Ba19), 21.7 min *4* (1962Pi02), 20.5 min *5* (1969WiZX) 303γ-decay curve. Others: 1943Bo03, 1955Ne03, 1969WiZX. J$^\pi$: L(d,^{3}He)=4, J$^\pi$=9/2$^+$ ruled out from analyzing power in (pol t,α).
194.048[‡] *25*	9/2$^+$		ABCD	J$^\pi$: J$^\pi$=7/2$^+$,9/2$^+$ from L=4 in (d,^{3}He) and J$^\pi$=7/2$^+$ ruled out by analyzing power data in (pol t,α).
268.36[@] *4*	1/2$^-$	>10 μs	ABCD	T$_{1/2}$: from $\gamma\gamma$(t) in ^{107}Ru β^- decay (1986Ka43). J$^\pi$: J$^\pi$=1/2$^-$,3/2$^-$ from L=1 in (d,^{3}He) and J$^\pi$=3/2$^-$ ruled out by analyzing power data in (pol t,α).
374.278[a] *25*	(3/2$^+$)	15 ns *2*	A	T$_{1/2}$: from $\gamma\gamma$(t) in ^{107}Ru β^- decay (1986Ka43). J$^\pi$: in (d,^{3}He) state at 386 keV is weakly excited with L=(1,2). Not observed in (pol t,α). log *ft*>7.5; strong γ transition (E2) to J$^\pi$=7/2$^+$ ground state and weak γ transition (E1) to 1/2$^-$ level together with an intense 10-keV (M1) γ feeding this level suggest J$^\pi$=(3/2$^+$). This could be a possible candidate for the theoretically predicted J$^\pi$=3/2$^+$ intruder state. This state should only be excited very weakly, if at all, in proton pickup reactions.
384.82 *4*	(1/2$^+$)		AB	XREF: B(386). J$^\pi$: in (d,^{3}He) a state at 386 keV is weakly excited with L=(1,2). Not observed in (t,α). Strong 10.54-keV (E2) γ transition to (3/2$^+$) points to similar character of both states. Could be the theoretically predicted J$^\pi$=1/2$^+$ intruder state. The absence of a measurable β branch to this level is in agreement with the J$^\pi$=(1/2$^+$) assignment.
405.80 *3*	(3/2$^+$)		A	J$^\pi$: γ transitions to 7/2$^+$ and 1/2$^-$ states suggest 3/2$^+$ or 5/2$^-$. J$^\pi$=5/2$^-$ is less probable because this would imply that the 31.5 and 405.8 γ rays are both E1 transitions which are known to be strongly hindered in this mass region.
462.601 *25*	5/2$^+$		ABC	XREF: B(468). J$^\pi$: J$^\pi$=3/2$^+$,5/2$^+$ from L=2 in (d,^{3}He) and L=(2) in (pol t,α). J$^\pi$=3/2$^+$ ruled out by analyzing power data in (pol t,α).
485.66[@] *6*	3/2$^-$		ABCD	XREF: B(489). J$^\pi$: J$^\pi$=1/2$^-$ and 3/2$^-$ from L=1 in (d,^{3}He) and L=(1) in (pol t,α). J$^\pi$=1/2$^-$ ruled out by analyzing power data in (pol t,α).
543.84[@] *6*	(5/2$^-$)		AB D	XREF: B(545). J$^\pi$: L=(1+3) from (d,^{3}He). Not observed in (pol t,α). log *ft*=8.1 for the corresponding β transition points to a first-forbidden transition. J$^\pi$=3/2$^-$,5/2$^-$ are the most probable J$^\pi$ values suggested from γ decay pattern.
559.96[‡] *6*	(11/2$^+$)		A D	J$^\pi$: γ's to 9/2$^+$ and 7/2$^+$.
568.90[a] *3*	(7/2$^+$)		A D	J$^\pi$: (M1) γ to 5/2$^+$, (M1) to 9/2$^+$.

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Adopted Levels, Gammas (continued)

^{107}Rh Levels (continued)

E(level)[†]	J^π	XREF	Comments
576 *5*	(3/2$^+$,5/2$^+$)	B	J^π: L=(2) (d,^{3}He).
588.92 *4*	(3/2$^+$,5/2$^+$)	A	J^π: (M1) γ to (3/2$^+$), (E2) γ to (1/2$^+$).
680.00[b] *5*	(11/2$^+$)	A D	
683.10 *3*	(7/2$^+$)	AB	XREF: B(685). J^π: (M1) γ to 5/2$^+$, γ to 9/2$^+$.
752.55 *9*	3/2$^-$	ABC	XREF: B(755). J^π: from L=1 in (d,^{3}He) and L=1 in (pol t,α). J^π=1/2$^-$ ruled out by analyzing power data in (pol t,α).
771.1[‡] *6*	(13/2$^+$)	D	
877.75 *10*	5/2$^-$	ABC	J^π: from L=3 in (d,^{3}He) and L=3 in (pol t,α). J^π=7/2$^-$ ruled out by analyzing power data in (pol t,α).
911.99 *4*		A C	XREF: C(914).
932 *5*	3/2$^+$,5/2$^+$	B	J^π: L=2 (d,^{3}He).
935.9[a] *10*	(11/2$^+$)	D	
948.12 *6*		A	
953.48 *7*	(9/2$^+$)	A	
974.44 *11*	(3/2$^-$,5/2$^-$,7/2$^-$)	A C	XREF: C(969). J^π: from the log *ft*=8.2 value a negative parity for this level seems to be favored. γ decay to negative parity levels.
1005 *3*	9/2$^+$	BC	XREF: B(1001)C(1006). J^π: DWBA analysis, L=4 (d,^{3}He). 7/2$^+$ ruled out by (pol t,α).
1006.6[@] *9*	(9/2$^-$)	D	
1009.76 *9*	(3/2$^-$,5/2$^-$)	A	J^π: level must be different from those observed in ^{108}Pd at 1006 keV and at 1001 keV with L=4 in ^{108}Pd(d,^{3}He) γ's to 3/2$^-$ and 5/2$^-$ and forbidden log *ft*.
1024 *10*		B	
1041.950 *25*	(5/2$^+$,7/2$^+$)	A	J^π: from log *ft*=5.9 the corresponding β transition seems to be allowed which implies J^π=3/2$^+$,5/2$^+$,7/2$^+$ for this level. J^π=3/2$^+$ is excluded but J^π=5/2$^+$ is not.
1078 *10*		B	
1166.0[b] *10*	(13/2$^+$)	D	
1251 *6*	5/2$^-$,7/2$^-$	BC	XREF: B(1249)C(1252). J^π: L=3 (d,^{3}He).
1255.1[‡] *7*	(15/2$^+$)	D	
1272.202 *24*	5/2$^+$,7/2$^+$	A	J^π: π=+ from allowed β transition with log *ft*=5.9. 3/2$^+$ excluded from γ to 9/2$^+$ state.
1306.43 *3*	(5/2$^+$,7/2$^+$)	A	J^π: the relatively low value for the log *ft* value, namely 6.1, suggests an allowed β transition. A γ to the 9/2$^+$ state again excludes 3/2$^+$.
1334 *10*	(1/2$^-$,3/2$^-$)	BC	XREF: B(1334)C(1341). J^π: L=(1) (d,^{3}He).
1359 *10*		B	
1386.36 *5*	1/2$^-$,3/2$^-$	AB	J^π: L=1 (d,^{3}He).
1460.9[a] *15*	(15/2$^+$)	D	
1509.1[‡] *9*	(17/2$^+$)	D	
1545 *6*	1/2$^-$,3/2$^-$	BC	XREF: B(1540)C(1548). J^π: L=1(d,^{3}He), DWBA gives 3/2$^-$. 3/2$^-$ in (pol t,α).
1569 *10*		B	
1583.0[b] *13*	(15/2$^+$)	D	
1610.4[@] *10*	(13/2$^-$)	D	
1639.07 *5*	(1/2$^-$,3/2$^-$)	A	XREF: A(1632).
1665 *6*	1/2$^-$,3/2$^-$	BC	XREF: B(1660)C(1669). J^π: L=1(d,^{3}He).
1689 *10*	1/2$^-$,3/2$^-$	B	J^π: L=1(d,^{3}He).
1706 *6*	(5/2,9/2)$^+$	BC	XREF: B(1713)C(1701). J^π: from (pol t,α).

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Adopted Levels, Gammas (continued)

^{107}Rh Levels (continued)

E(level)[†]	J$^{\pi}$	XREF	Comments
1863.10 *6*	(5/2$^+$,7/2$^+$)	A	J$^{\pi}$: the relatively low value for the log *ft* value, namely 6.2, suggests an allowed β transition. A γ to the 9/2$^+$ state excludes 3/2$^+$. Level at 1871 keV observed in (d,^{3}He) with L=(3) and level at 1865 keV in (pol t,α) with L=1, are very probably not the same level as observed in β decay.
1867 *6*	(3/2$^-$)	BC	XREF: B(1871)C(1865). J$^{\pi}$: L=(3) (d,^{3}He), 3/2$^-$ in (pol t,α).
1930 *10*	5/2$^-$,7/2$^-$	BC	XREF: C(1931). J$^{\pi}$: L=3 (d,^{3}He).
2020.51 *11*		A	J$^{\pi}$: no J^{π} suggestion. log *ft*=6.6. In (d,^{3}He) L=1 at 2032 keV. In (pol t,α) L=3 at 2037 keV.
2033.0[b] *13*	(17/2$^+$)	D	
2035 *6*	1/2$^-$	BC	XREF: B(2033)C(2037). J$^{\pi}$: L=1 (d,^{3}He), analyzing power in (pol t,α) rules out 3/2$^-$.
2053.1[‡] *10*	(19/2$^+$)	D	
2054.20 *8*	(3/2$^+$,5/2$^+$,7/2$^+$)	A	J$^{\pi}$: the relatively low value for the log *ft* value, namely 6.0, suggests an allowed β transition. From the γ decay pattern 3/2$^+$ cannot be excluded.
2115.42 *11*		A	
2117.9[a] *18*	(19/2$^+$)	D	
2136 *10*	(5/2$^-$,7/2$^-$)	B	J$^{\pi}$: L=(3) (d,^{3}He).
2141.1[&] *10*	(15/2$^-$)	D	
2177.98 *16*		A	
2199 *6*		BC	XREF: B(2199)C(2201).
2207.68 *17*		A	
2249.68 *7*	(5/2,7/2)$^+$	A	J$^{\pi}$: from the log *ft* value, namely 5.9, an allowed β transition is most likely. A γ to the 9/2$^+$ state again excludes 3/2$^+$.
2277.2[&] *9*	(17/2$^-$)	D	
2291 *10*		B	J$^{\pi}$: L(d,^{3}He)=(1,3).
2301.3[@] *12*	(17/2$^-$)	D	
2303.39 *14*	(3/2$^+$,5/2$^+$)	A	Suggests an allowed β transition. γ to 3/2$^-$ almost excludes 7/2$^+$.
2331.08 *14*	(3/2$^+$,5/2$^+$,7/2$^+$)	A	J$^{\pi}$: the relatively low value for the log *ft* value, namely 6.0, suggests an allowed β transition.
2343 *10*	(1/2$^-$,3/2$^-$)	B	J$^{\pi}$: L=(1) (d,^{3}He).
2358.1[‡] *11*	(21/2$^+$)	D	
2387 *10*		B	J$^{\pi}$: L=(1,2) (d,^{3}He).
2428.3[&] *12*	(19/2$^-$)	D	
2469 *10*	(7/2$^+$,9/2$^+$)	B	J$^{\pi}$: L=(4) (d,^{3}He).
2510.00 *15*	(5/2$^+$,7/2$^+$)	A	J$^{\pi}$: the relatively low value for the log *ft* value, namely 6.1, suggests an allowed β transition. A γ to the 9/2$^+$ state again excludes 3/2$^+$.
2660.3[&] *16*	(21/2$^-$)	D	
2846.1[#] *12*	(23/2$^+$)	D	
2873.9[a] *20*	(23/2$^+$)	D	
2962.3[&] *19*	(23/2$^-$)	D	
3135.1[#] *16*	(25/2$^+$)	D	
3311.3[&] *21*	(25/2$^-$)	D	
3434.1[#] *19*	(27/2$^+$)	D	
3709.3[&] *24*	(27/2$^-$)	D	
3802.1[#] *21*	(29/2$^+$)	D	

[†] Level energy from least-squares adjustment.

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Adopted Levels, Gammas (continued)

^{107}Rh Levels (continued)

‡ Band(A): Band #1, based on $7/2^+$ g.s..
# Band(B): Band #2, based on $(23/2^+)$.
@ Band(C): Band #3, based on $(1/2^-)$. Possibly $\pi 1/2[301]$.
& Band(D): Band #4, based on $(15/2^-)$. Possible configuration=$\pi g_{9/2} \nu h_{11/2} \nu(g_{7/2}/d_{5/2})$.
a Band(E): Band #5, based on $(3/2^+)$. Possibly $\pi 1/2[431]$.
b Band(F): Band #6, based on $(11/2^+)$.

$\gamma(^{107}Rh)$

E_i(level)	J^π_i	E_γ†	I_γ‡	E_f	J^π_f	Mult.	α#	$I_{(\gamma+ce)}$	Comments
194.048	9/2$^+$	194.05 5	100 11	0.0	7/2$^+$				
268.36	1/2$^-$	268.36 5	100	0.0	7/2$^+$	(E3)	0.1727		B(E3)(W.u.)<1520
									B(E3)(W.u.): from RUL one expects $T_{1/2}$>152 μs.
374.278	(3/2$^+$)	105.92 5	8.7 7	268.36	1/2$^-$	(E1)	0.1239		B(E1)(W.u.)=1.3×10^{-6} 3
		374.28 5	100 14	0.0	7/2$^+$	(E2)	0.01371		B(E2)(W.u.)=0.16 2
384.82	(1/2$^+$)	(10.54 6)		374.278	(3/2$^+$)			207 70	E_γ: not observed, energy from the level energy differences.
		116.45 5	100 10	268.36	1/2$^-$				
405.80	(3/2$^+$)	(31.52 4)		374.278	(3/2$^+$)			3.0 15	E_γ: not observed, energy from the level energy differences.
		405.80 5	100 8	0.0	7/2$^+$				
462.601	5/2$^+$	56.81 5	9.4 5	405.80	(3/2$^+$)				
		88.3 1	0.6 1	374.278	(3/2$^+$)				
		268.5 3	9 3	194.048	9/2$^+$				
		462.61 5	100 6	0.0	7/2$^+$				
485.66	3/2$^-$	217.30 5	100	268.36	1/2$^-$				
543.84	(5/2$^-$)	58.18 5	6.1 20	485.66	3/2$^-$				
		275.48 5	100 8	268.36	1/2$^-$				
559.96	(11/2$^+$)	365.9 1	100 7	194.048	9/2$^+$				
		560.0	17 3	0.0	7/2$^+$				
568.90	(7/2$^+$)	106.3 1	4.0 6	462.601	5/2$^+$				
		194.64 5	100 20	374.278	(3/2$^+$)				
		374.9 1	93. 20	194.048	9/2$^+$				
		568.89 5	53 4	0.0	7/2$^+$				
588.92	(3/2$^+$,5/2$^+$)	183.1 1	12.6 15	405.80	(3/2$^+$)				
		204.09 5	100 7	384.82	(1/2$^+$)				
		214.66 5	63 5	374.278	(3/2$^+$)				
		588.9 1	19 3	0.0	7/2$^+$				
680.00	(11/2$^+$)	485.95 5	100	194.048	9/2$^+$				
683.10	(7/2$^+$)	220.49 5	40 4	462.601	5/2$^+$				
		489.05 5	100 8	194.048	9/2$^+$				
		683.11 5	40 4	0.0	7/2$^+$				
752.55	3/2$^-$	266.8 2	13 5	485.66	3/2$^-$				
		484.2 1	100 9	268.36	1/2$^-$				
771.1	(13/2$^+$)	211 1		559.96	(11/2$^+$)				
		577 1		194.048	9/2$^+$				
877.75	5/2$^-$	333.9 1	100 12	543.84	(5/2$^-$)				
		392.1 5	41 17	485.66	3/2$^-$				
		609.4 2	58 58	268.36	1/2$^-$				
911.99		718.0 5	3 3	194.048	9/2$^+$				
		912.0 1	100 4	0.0	7/2$^+$				
935.9	(11/2$^+$)	367 1	100	568.90	(7/2$^+$)				
948.12		265.0 1	17 3	683.10	(7/2$^+$)				

$^{107}_{45}Rh_{62}$-5

$\gamma(^{107}Rh)$ (continued)

E_i(level)	J^{π}_i	E_γ†	I_γ‡	E_f	J^{π}_f
948.12		948.1 *1*	100 *9*	0.0	7/2+
953.48	(9/2+)	364.5 *1*	56 *12*	588.92	(3/2+,5/2+)
		384.5 *5*	6 *6*	568.90	(7/2+)
		759.5 *1*	100	194.048	9/2+
974.44	(3/2−,5/2−,7/2−)	430.6 *1*	100 *9*	543.84	(5/2−)
		488.7 *5*	18 *9*	485.66	3/2−
1006.6	(9/2−)	463 *1*	100	543.84	(5/2−)
1009.76	(3/2−,5/2−)	257.2 *1*	100 *13*	752.55	3/2−
		524.1 *1*	37 *12*	485.66	3/2−
1041.950	(5/2+,7/2+)	93.8 *1*	0.4 *1*	948.12	
		358.8 *2*	6 *2*	683.10	(7/2+)
		579.36 *5*	46 *2*	462.601	5/2+
		636.10 *5*	4.5 *3*	405.80	(3/2+)
		847.93 *5*	100 *5*	194.048	9/2+
		1041.95 *5*	48 *2*	0.0	7/2+
1166.0	(13/2+)	486 *1*	100	680.00	(11/2+)
1255.1	(15/2+)	484 *1*		771.1	(13/2+)
		695 *1*		559.96	(11/2+)
1272.202	5/2+,7/2+	230.26 *5*	5.2 *4*	1041.950	(5/2+,7/2+)
		360.22 *5*	25.6 *14*	911.99	
		592.2 *1*	5.6 *4*	680.00	(11/2+)
		683.3 *3*	4.1 *20*	588.92	(3/2+,5/2+)
		703.30 *5*	37.5 *20*	568.90	(7/2+)
		712.3 *1*	1.6 *2*	559.96	(11/2+)
		809.57 *5*	15.8 *10*	462.601	5/2+
		866.5 *1*	2.7 *2*	405.80	(3/2+)
		897.9 *1*	29.1 *16*	374.278	(3/2+)
		1078.12 *5*	30.8 *18*	194.048	9/2+
		1272.20 *5*	100	0.0	7/2+
1306.43	(5/2+,7/2+)	358.5 *5*	12 *6*	948.12	
		394.41 *5*	43.5 *23*	911.99	
		626.4 *1*	10 *11*	680.00	(11/2+)
		717.5 *1*	20.5 *17*	588.92	(3/2+,5/2+)
		737.55 *5*	100 *6*	568.90	(7/2+)
		746.4 *1*	2.9 *5*	559.96	(11/2+)
		843.9 *1*	62 *4*	462.601	5/2+
		932.1 *1*	76 *6*	374.278	(3/2+)
		1112.4 *1*	17.0 *17*	194.048	9/2+
		1306.43 *5*	70 *6*	0.0	7/2+
1386.36	1/2−,3/2−	924.0 *5*	2.6 *11*	462.601	5/2+
		980.6 *1*	100 *12*	405.80	(3/2+)
		1386.3 *1*	46 *8*	0.0	7/2+

γ(^{107}Rh) (continued)

E_i(level)	J^{π}_i	E_{γ}†	I_{γ}‡	E_f	J^{π}_f
1460.9	(15/2$^+$)	525 *1*	100	935.9	(11/2$^+$)
1509.1	(17/2$^+$)	254 *1*		1255.1	(15/2$^+$)
		738 *1*		771.1	(13/2$^+$)
1583.0	(15/2$^+$)	417 *1*		1166.0	(13/2$^+$)
1610.4	(13/2$^-$)	604 *1*		1006.6	(9/2$^-$)
1639.07	(1/2$^-$,3/2$^-$)	252.70 *5*	56 *5*	1386.36	1/2$^-$,3/2$^-$
		597.1 *1*	14.3 *25*	1041.950	(5/2$^+$,7/2$^+$)
		690.9 *2*	28 *5*	948.12	
		727.1 *1*	30.7 *25*	911.99	
		956.0 *2*	31 *5*	683.10	(7/2$^+$)
		1050.3 *2*	21 *5*	588.92	(3/2$^+$,5/2$^+$)
		1176.5 *2*	28 *5*	462.601	5/2$^+$
		1445.0 *1*	100 *8*	194.048	9/2$^+$
		1639.0 *2*	26 *5*	0.0	7/2$^+$
1863.10	(5/2$^+$,7/2$^+$)	476.8 *1*	42 *5*	1386.36	1/2$^-$,3/2$^-$
		821.1 *1*	86 *12*	1041.950	(5/2$^+$,7/2$^+$)
		951.2 *1*	65 *12*	911.99	
		1294.0 *5*	14 *9*	568.90	(7/2$^+$)
		1669.0 *2*	53 *5*	194.048	9/2$^+$
		1863.0 *1*	100 *9*	0.0	7/2$^+$
2020.51		1067.0 *2*	448 *5*	953.48	(9/2$^+$)
		1558.0 *2*	100 *11*	462.601	5/2$^+$
		1826.5 *3*	33 *11*	194.048	9/2$^+$
		2020.4 *2*	38 *5*	0.0	7/2$^+$
2033.0	(17/2$^+$)	450 *1*		1583.0	(15/2$^+$)
		867 *1*		1166.0	(13/2$^+$)
2053.1	(19/2$^+$)	544 *1*		1509.1	(17/2$^+$)
		798 *1*		1255.1	(15/2$^+$)
2054.20	(3/2$^+$,5/2$^+$,7/2$^+$)	1106.0 *5*	10 *5*	948.12	
		1142.2 *1*	26 *3*	911.99	
		1591.6 *1*	100 *6*	462.601	5/2$^+$
		1648.4 *3*	17 *6*	405.80	(3/2$^+$)
2115.42		1161.9 *2*	22 *4*	953.48	(9/2$^+$)
		1167.3 *1*	100 *11*	948.12	
2117.9	(19/2$^+$)	657 *1*	100	1460.9	(15/2$^+$)
2141.1	(15/2$^-$)	1370 *1*	100	771.1	(13/2$^+$)
2177.98		1589.1 *3*	57 *14*	588.92	(3/2$^+$,5/2$^+$)
		1692.5 *5*	14 *7*	485.66	3/2$^-$
		1772.1 *2*	100 *15*	405.80	(3/2$^+$)
2207.68		2013.5 *3*	83 *16*	194.048	9/2$^+$
		2207.7 *2*	100 *8*	0.0	7/2$^+$
2249.68	(5/2,7/2)$^+$	1296.3 *2*	38 *5*	953.48	(9/2$^+$)

Adopted Levels, Gammas (continued)

$\gamma(^{107}Rh)$ (continued)

E_i(level)	J^π_i	E_γ †	I_γ ‡	E_f	J^π_f
2249.68	$(5/2,7/2)^+$	1566.7 *2*	100 *8*	683.10	$(7/2^+)$
		2055.5 *1*	51 *5*	194.048	$9/2^+$
		2249.7 *1*	32 *2*	0.0	$7/2^+$
2277.2	$(17/2^-)$	136 *1*		2141.1	$(15/2^-)$
		667 *1*		1610.4	$(13/2^-)$
		1022 *1*		1255.1	$(15/2^+)$
2301.3	$(17/2^-)$	691 *1*	100	1610.4	$(13/2^-)$
2303.39	$(3/2^+,5/2^+)$	1293.7 *5*	18 *12*	1009.76	$(3/2^-,5/2^-)$
		1425.6 *3*	50 *12*	877.75	$5/2^-$
		1817.7 *3*	25 *6*	485.66	$3/2^-$
		1897.6 *2*	100 *13*	405.80	$(3/2^+)$
		1929.0 *5*	87 *43*	374.278	$(3/2^+)$
2331.08	$(3/2^+,5/2^+,7/2^+)$	1648.0 *5*	52 *26*	683.10	$(7/2^+)$
		1868.5 *2*	52 *10*	462.601	$5/2^+$
		2331.0 *2*	100 *11*	0.0	$7/2^+$
2358.1	$(21/2^+)$	305 *1*		2053.1	$(19/2^+)$
2358.1	$(21/2^+)$	849 *1*		1509.1	$(17/2^+)$
2428.3	$(19/2^-)$	127 *1*		2301.3	$(17/2^-)$
		151 *1*		2277.2	$(17/2^-)$
2510.00	$(5/2^+,7/2^+)$	2316.0 *2*	100 *22*	194.048	$9/2^+$
		2509.9 *2*	78 *11*	0.0	$7/2^+$
2660.3	$(21/2^-)$	232 *1*	100	2428.3	$(19/2^-)$
2846.1	$(23/2^+)$	488 *1*		2358.1	$(21/2^+)$
		793 *1*		2053.1	$(19/2^+)$
2873.9	$(23/2^+)$	756 *1*	100		
2962.3	$(23/2^-)$	302 *1*	100	2660.3	$(21/2^-)$
3135.1	$(25/2^+)$	289 *1*	100	2846.1	$(23/2^+)$
3311.3	$(25/2^-)$	349 *1*	100	2962.3	$(23/2^-)$
3434.1	$(27/2^+)$	299 *1*	100	3135.1	$(25/2^+)$
3709.3	$(27/2^-)$	398 *1*	100	3311.3	$(25/2^-)$
3802.1	$(29/2^+)$	368 *1*	100	3434.1	$(27/2^+)$

† From ^{107}Ru β^- decay.

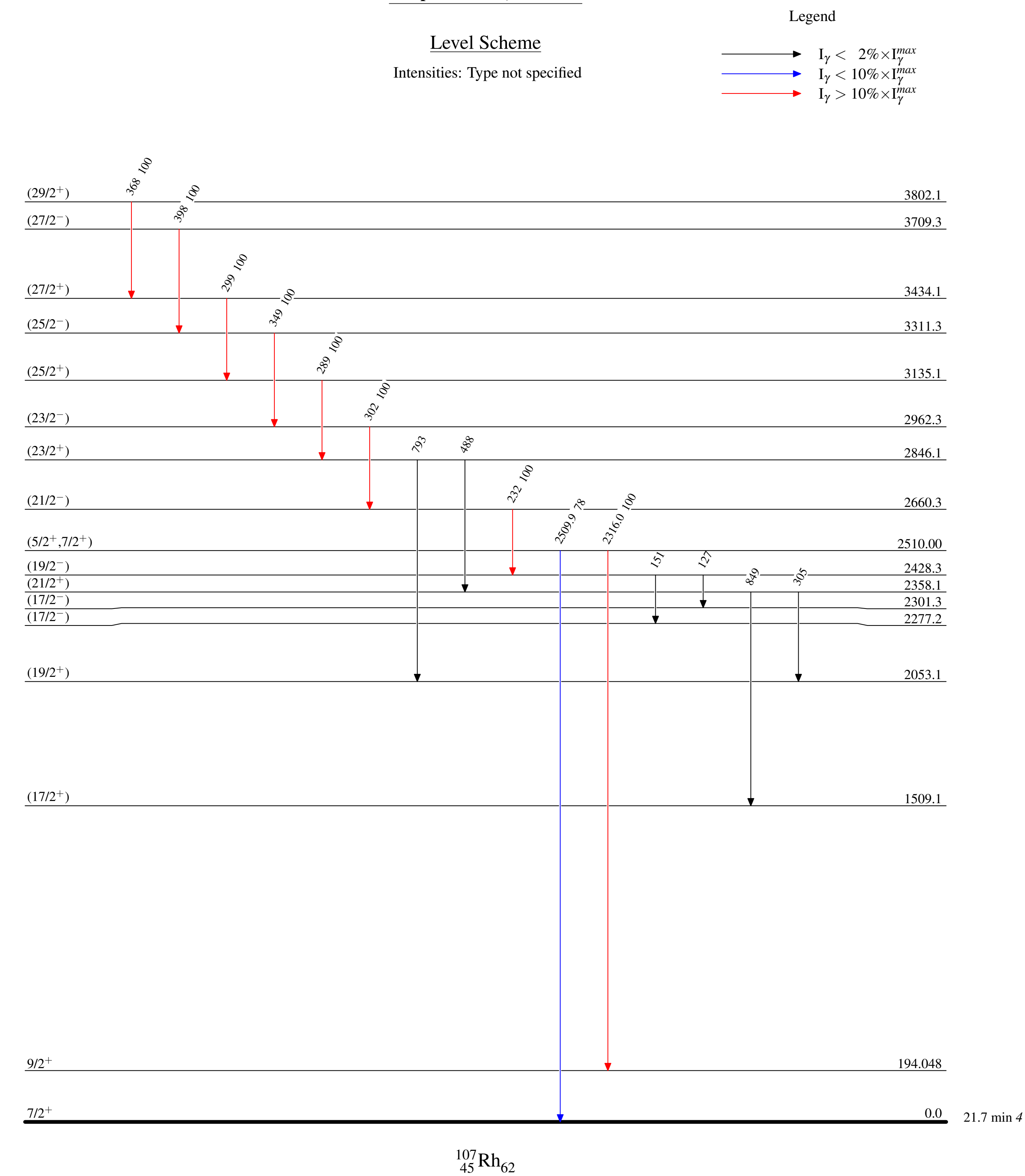
‡ Relative photon branching from each level.

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.

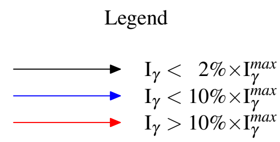
Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified

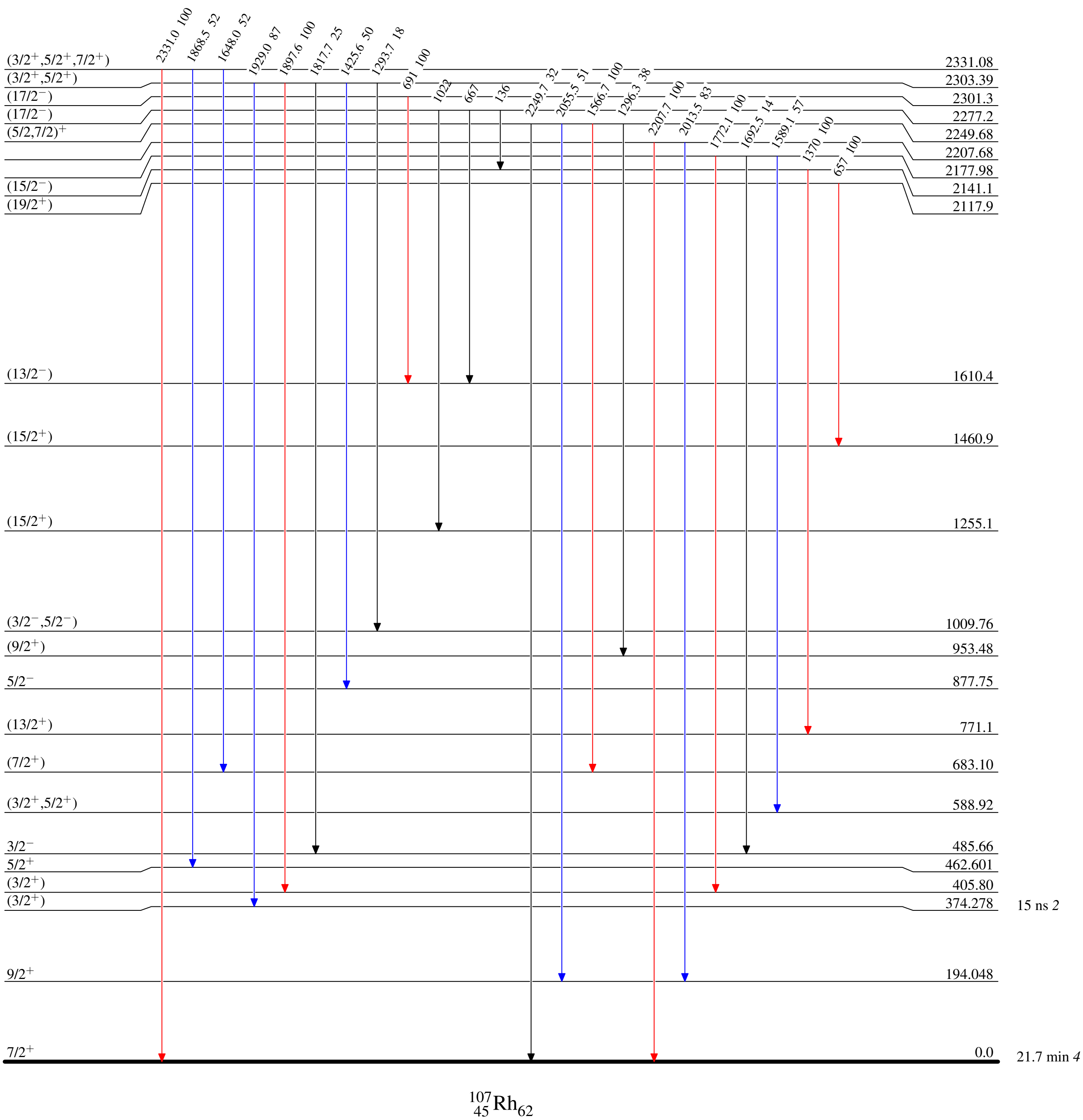


Adopted Levels, Gammas



Level Scheme (continued)

Intensities: Type not specified

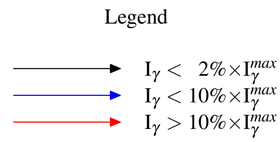


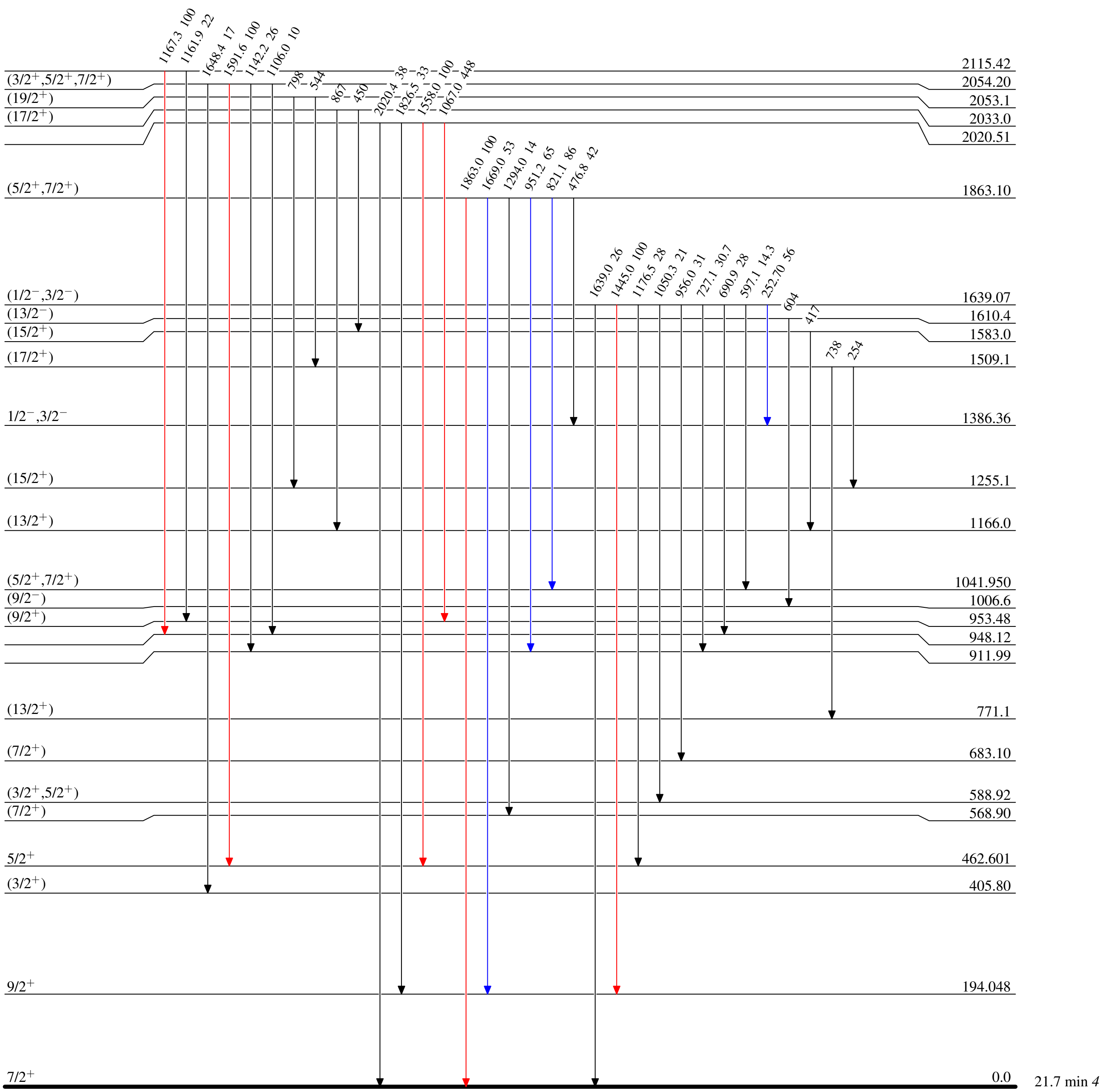
$^{107}_{45}Rh_{62}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



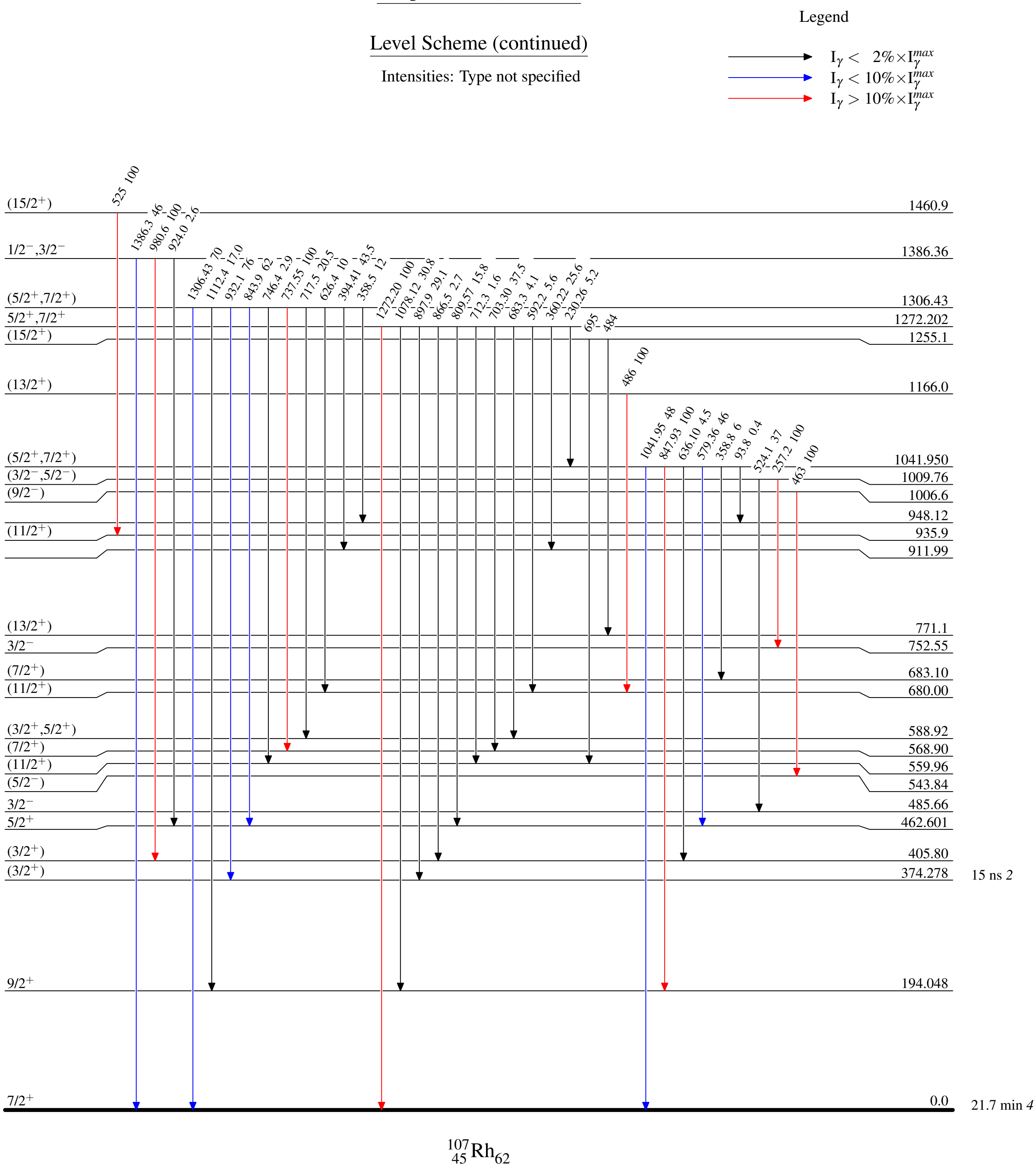


$^{107}_{45}Rh_{62}$

Adopted Levels, Gammas

Level Scheme (continued)

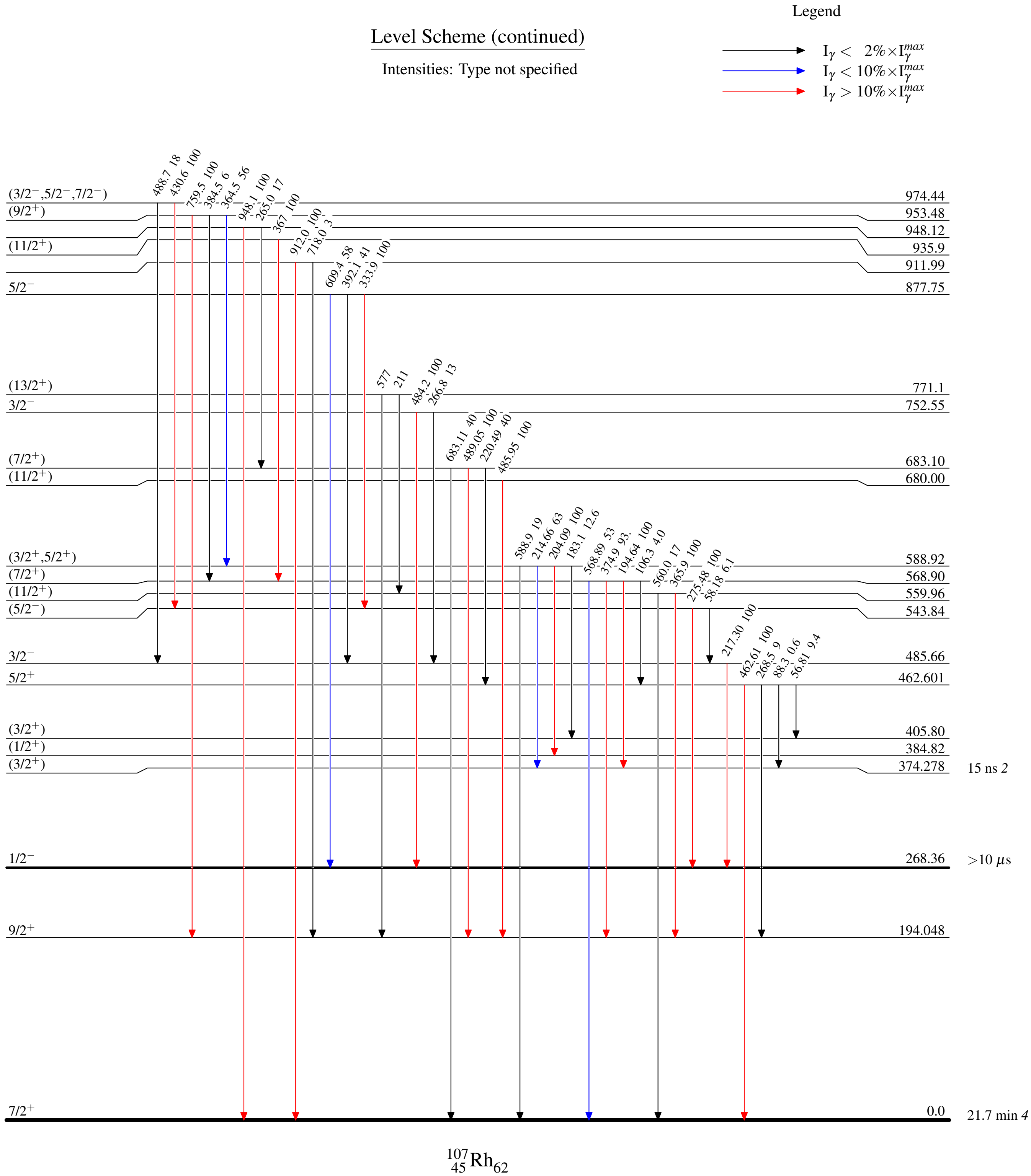
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

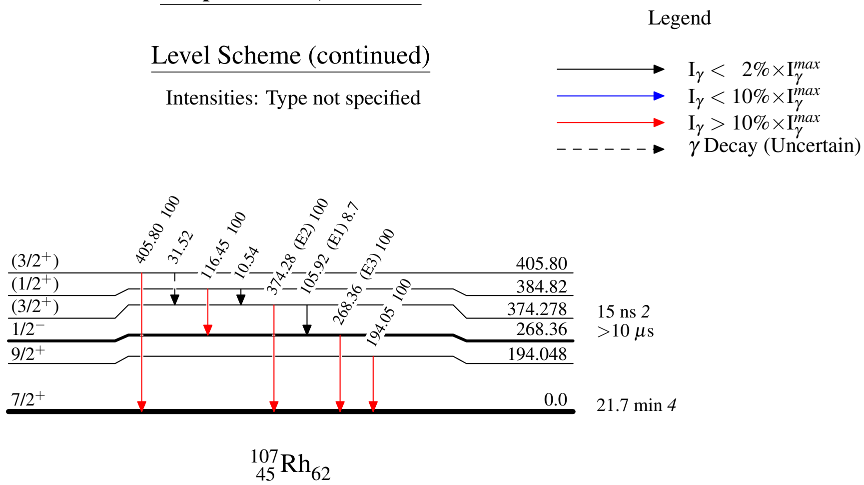
Intensities: Type not specified



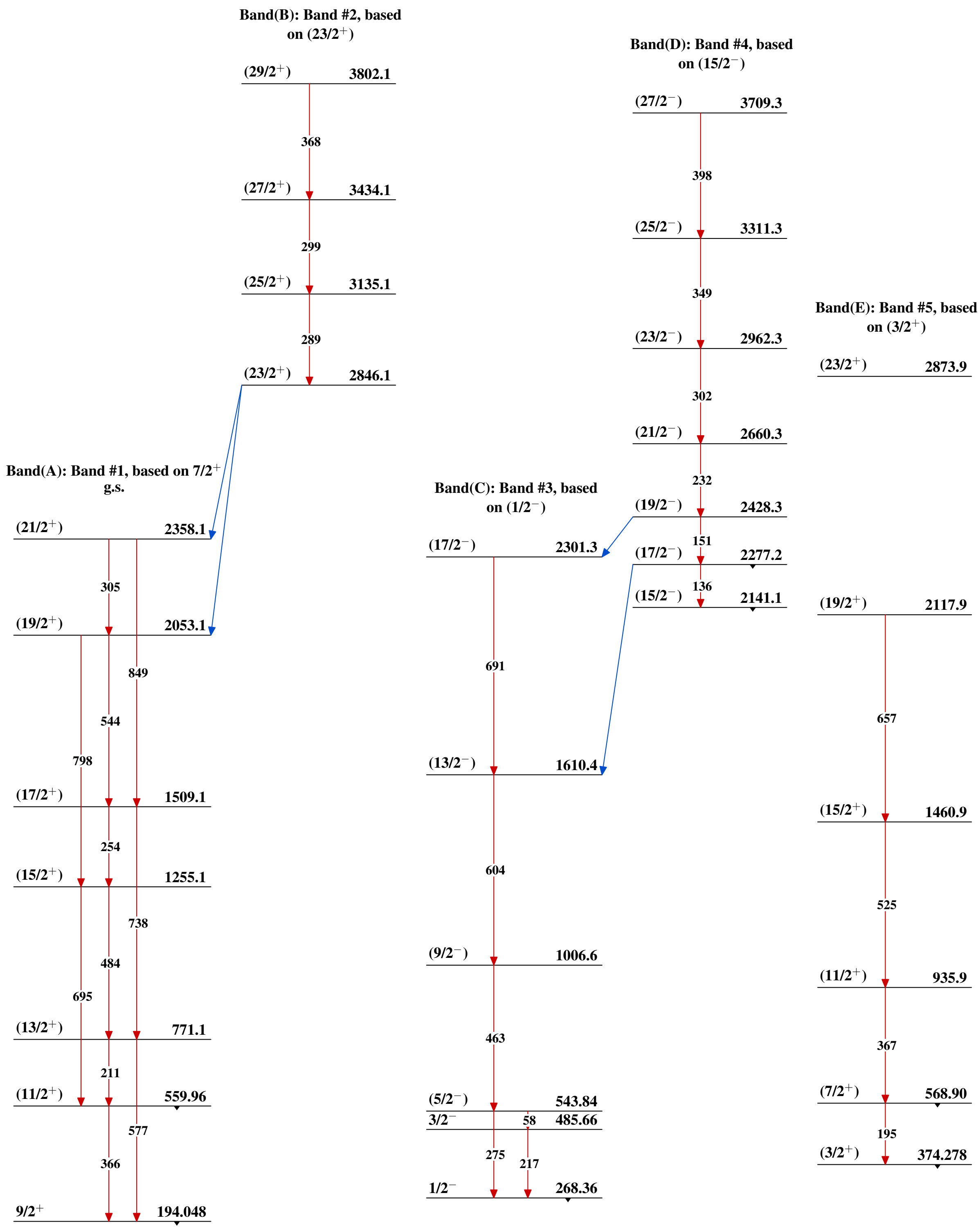
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

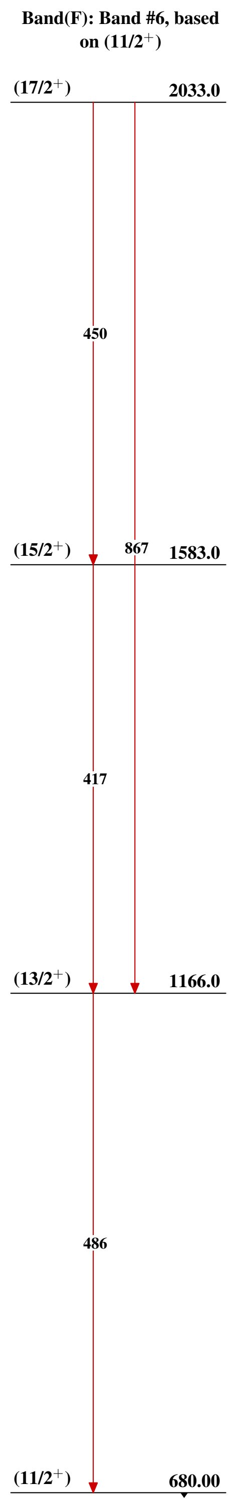


Adopted Levels, Gammas



$^{107}_{45}Rh_{62}$

Adopted Levels, Gammas (continued)



$^{107}_{45}Rh_{62}$