Adopted Levels, Gammas

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

Q(β^-)=−1980 *4*; S(n)=9894 *19*; S(p)=5476 *6*; Q(α)=−2617 *7* 2012Wa38
Note: Current evaluation has used the following Q record.
Q(β^-)=−1980 *4*; S(n)=9895 *25*; S(p)=5478 *17*; Q(α)=−2613 *18* 2003Au03

^{101}Rh Levels

Cross Reference (XREF) Flags

A	^{101}Rh IT decay (4.34 d)	E	^{100}Ru(p,p),(p,n) IAR
B	^{101}Pd ε decay (8.47 h)	F	^{103}Rh(p,t)
C	^{94}Zr(^{12}C,4npγ), ^{102}Ru(p,2nγ)	G	^{101}Ru(p,nγ)
D	^{98}Mo(^{6}Li,3nγ)	H	^{70}Zn(^{36}S,p4nγ)

E(level)	J$^\pi$ †	T$_{1/2}$	XREF	Comments
0.0 e	1/2$^-$	3.3 y *3*	ABCD FGH	%ε=100 T$_{1/2}$: from 1965Ev06 monoisotopic source. Others: 3.0 y *4* (1965Hi07) mixed ^{101}Rh+^{102}Rh source, 5 y *1* (1955Fa12), 10 y *3* (1960Pe05). J$^\pi$: L=0 (p,t) gives J=1/2$^-$ for ^{103}Rh target.
157.32 ‡ *3*	9/2$^+$	4.34 d *1*	ABCD FGH	%IT=7.20 *25*; %ε=92.80 *25* μ=+5.43 *6* (1995Se20,2005St24) J$^\pi$: from atomic beam (1975Ru06), π from M4 γ to 1/2$^-$. μ: others: +5.472 *14* (1986Ni02), +5.49 *9* (1973Ka28), +5.475 *12* (1985Ed06). T$_{1/2}$: from 1966Ar05. Others: 4.39 d *8* (1968Li08), 4.43 d *6* (1965Ev04), 4.7 d *2* (1956Ka25). Others: 1948Li03, 1949Eg04, 1952Sc11, 1955Fa12.
181.78 # *3*	7/2$^+$	1.91 ns *6*	BCD GH	T$_{1/2}$: from 1970Va33 (ce)(ce)(t). Other: 1.77 ns *5* (1974BeZJ) $\gamma\gamma$(t). J$^\pi$: M1 γ to 9/2$^+$, log *ft*=5.5 from 5/2$^+$.
305.42 f *12*	(3/2$^-$)		BCD FGH	J$^\pi$: from L=2 (p,t), σ(355)/σ(305) suggests J(305)=3/2 and J(355)=5/2.
355.24 e *8*	5/2$^-$		BCD FGH	J$^\pi$: from L=2 (p,t).
478.06 *4*	(5/2)$^+$	68 ps *16*	B D G	T$_{1/2}$: from 1970Va33 (ce)(ce)(t). Other: 66 ps *10* (1974BeZJ) $\gamma\gamma$(t). J$^\pi$: M1+E2 γ to 7/2$^+$. Excit function in (p,nγ) is consistent with J=5/2.
747.77 # *4*	11/2$^+$		D H	J$^\pi$: M1 γ to 9/2$^+$, 590$\gamma(\theta)$ requires 11/2.
747.8 *1*	7/2$^+$	≤0.2 ns	BCD G	T$_{1/2}$: from 1974BeZJ (K x ray)(590γ)(t). J$^\pi$: M1 γ to 9/2$^+$. log *ft*=5.6 from 5/2$^+$, excit in (p,nγ) rule out J=5/2.
851.35 f *10*	(7/2$^-$)		BCD FGH	J$^\pi$: L=4 (p,t).
893.40 ‡ *16*	13/2$^+$		CD GH	J$^\pi$: Q γ to 9/2$^+$, Stretch D γ to 11/2$^+$, 145$\gamma(\theta)$ (2001Ti08).
899.35 e *22*	9/2$^-$		CD FGH	J$^\pi$: from L=4 (p,t) and rel (p,t) strength.
905.69 *5*	(5/2,7/2)$^+$		B G	J$^\pi$: M1 γ to (7/2)$^+$, log *ft*=6.6 from 5/2$^+$.
977 *2*	(1/2$^-$)		F	J$^\pi$: Probably different from the 978 level. σ/σ(g.s.) is similar to that for the σ(1130,0$^+$)/σ(g.s.,0$^+$)in ^{102}Ru (p,t), suggesting that is the 1/2$^-$ state expected from coupling with the excited 0$^+$ in the core (1975De19).
978.16 *15*	(7/2,9/2)$^+$		B D G	J$^\pi$: excit function in (p,nγ). Close-lying (p,t) and ^{101}Pd decay excitations may not correspond.
996.4 *2*	3/2$^-$,5/2$^-$		FG	J$^\pi$: from L=2 (p,t), σ(1058)/σ(996) suggests J(996)=3/2 and J(1058)=5/2.
1035.63 *8*	(5/2)$^+$		B G	J$^\pi$: M1,E2 γ to (7/2)$^+$ and excit function in (p,nγ).
1058.00 *15*	3/2$^-$,5/2$^-$		B FG	J$^\pi$: L=2 (p,t), see 996 level; however, excit in (p,nγ) favors J(1058)=3/2.
1320.26 *16*	(3/2)		B G	J$^\pi$: excit function in (p,nγ).
1359.37 *5*	7/2$^+$		B G	J$^\pi$: from M1 γ decay to 9/2$^+$ state and log *ft*=5.9 from 5/2$^+$.
1383.4 *3*	3/2		G	J$^\pi$: excit function in (p,nγ).

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Adopted Levels, Gammas (continued)

^{101}Rh Levels (continued)

E(level)	Jπ†	XREF	Comments
1464 *8*	(11/2+,13/2+)	F	Jπ: L=(6) (p,t).
1470.81 *5*	5/2+,7/2+	B G	Jπ: from γ decays to 3/2−,5/2+,7/2+,9/2+ states, M1 γ to π=+.
1531 *8*	1/2−	F	Jπ: from L=0 (p,t).
1541 *8*	3/2−,5/2−	F	Jπ: L=2 (p,t).
1576.9[f] *4*	11/2−	CD F H	
1604.0 *3*	(7/2−,9/2−)	BC FG	Jπ: (E1) to (5/2+,7/2+) and γ to 9/2+.
1604.5[e] *4*	(13/2−)	CD H	Jπ: Q γ to 9/2−, Q is probably E2.
1607.4 *3*		D	
1609.0[#] *2*	(15/2+)	D H	Jπ: γ′s to 11/2+ and 13/2+ and γ(θ).
1640 *8*		F	
1696.33 *7*	3/2+,5/2+,7/2+	B FG	Jπ: from log *ft*=5.8 from 5/2+.
1730 *8*		F	
1777.9 *3*	3/2−,5/2−	FG	Jπ: L=2 (p,t).
1778.8[‡] *3*	(17/2+)	CD H	Jπ: Q γ to 13/2+.
1789.49 *18*	5/2+,7/2+	B G	Jπ: from γ decays to 5/2+ and 9/2+ states, log *ft*=5.8 from 5/2+.
1820.59 *10*	5/2+,7/2+	B F	E(level): 1813 keV in (p,t) may correspond. Jπ: from γ decays to 5/2+ and 9/2+ states, log *ft*=5.8 from 5/2+.
1843.0 *8*	(13/2−)	H	
1845.33 *19*		B	
1911.40 *15*	3/2−,5/2−	B FG	Jπ: L=2 (p,t).
1935 *8*	3/2−,5/2−	F	Jπ: L=2 (p,t).
1960 *8*	3/2−,5/2−	F	Jπ: L=2 (p,t).
1997 *8*	1/2−	F	Jπ: from L=0 (p,t).
2009 *8*	3/2−,5/2−	F	Jπ: L=2 (p,t).
2038 *8*		F	
2075 *8*		F	
2087 *8*	(7/2−,9/2−)	F	Jπ: L=(4) (p,t).
2113 *8*	7/2−,9/2−	F	Jπ: L=4 (p,t).
2146 *8*		F	
2166 *8*		F	
2188 *8*	3/2−,5/2−	F	Jπ: L=2 (p,t).
2225 *8*	3/2−,5/2−	F	Jπ: L=2 (p,t).
2242 *8*	7/2−,9/2−	F	Jπ: L=4 (p,t).
2292 *8*	7/2−,9/2−	F	Jπ: L=4 (p,t).
2328 *8*	7/2−,9/2−	F	Jπ: L=4 (p,t).
2352 *8*		F	
2361 *8*		F	
2386.7[e] *5*	(17/2−)	CD H	Jπ: Q γ to 13/2−.
2455 *8*		F	
2492 *8*	3/2−,5/2−	F	Jπ: L=2 (p,t).
2521 *8*	(7/2−,9/2−)	F	Jπ: L=(4) (p,t).
2577 *8*		F	
2586.3[#] *4*	19/2+	D H	
2653.8 *4*		D	
2671.8[a] *5*	(17/2−)	D H	Jπ: Q γ to 13/2−.
2781.0[‡] *4*	(21/2+)	CD H	Jπ: Q γ to 17/2+.
2785.1 *5*	17/2−	D	
2931.2[b] *5*	19/2−	D H	
3119.5[a] *3*	21/2−	H	
3247.7[e] *6*	21/2−	D	
3425.1[b] *4*	23/2−	H	
3530.5[d] *3*	23/2−	H	
3744.2[a] *4*	25/2−	H	

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Adopted Levels, Gammas (continued)

^{101}Rh Levels (continued)

E(level)	J^{π}[†]	XREF		Comments
3763.3 *11*	(23/2$^-$)		H	
3874.2[‡] *7*	(25/2$^+$)	D	H	J^{π}: Q γ to 21/2$^+$.
3890.0[#] *6*	(23/2$^+$)		H	
3930.8[c] *4*	25/2$^-$		H	
3994.2 *8*	(25/2$^-$)		H	
4071.7 *15*	(25/2$^-$)		H	
4236.6[b] *4*	27/2$^-$		H	
4303.5[d] *4*	27/2$^-$		H	
4384.4[@] *9*	(25/2$^+$)		H	
4571.0 *8*			H	
4609.6[a] *4*	29/2$^-$		H	
4773.4[&] *6*	(27/2$^+$)		H	
4801.2[c] *4*	29/2$^-$		H	
4825.0[#] *7*	(27/2$^+$)		H	
4979.9[‡] *6*	29/2$^+$		H	
5196.7[@] *6*	(29/2$^+$)		H	
5230.4[d] *4*	31/2$^-$		H	
5234.5[b] *6*	(31/2$^-$)		H	
5627.1[&] *7*	(31/2$^+$)		H	
5728.1[c] *4*	33/2$^-$		H	
5846.3[a] *4*	33/2$^-$		H	
5881.5[#] *7*	(31/2$^+$)		H	
6082.8[‡] *7*	33/2$^+$		H	
6116.9[@] *7*	(33/2$^+$)		H	
6309.6[d] *4*	35/2$^-$		H	
6633.1[&] *7*	(35/2$^+$)		H	
6706.4 *7*	(35/2$^+$)		H	
6882.5[c] *5*	37/2$^-$		H	
6994.2[a] *5*	37/2$^-$		H	
7210.4[@] *7*	(37/2$^+$)		H	
7213.3[‡] *9*	37/2$^+$		H	
7536.0[d] *5*	39/2$^-$		H	
7840.3[&] *7*	(39/2$^+$)		H	
8161.0[c] *6*	41/2$^-$		H	
8287.6[a] *7*	41/2$^-$		H	
8392.4[@] *7*	(41/2$^+$)		H	
8926.0[d] *7*	43/2$^-$		H	
9066.9[&] *8*	(43/2$^+$)		H	
9464.5[c] *7*	45/2$^-$		H	
9507.6[a] *12*	45/2$^-$		H	
9647.6[@] *7*	(45/2$^+$)		H	
10219.9[d] *7*	47/2$^-$		H	
10414.1[&] *8*	(47/2$^+$)		H	
10689.9[c] *8*	49/2$^-$		H	
11029.7[@] *8*	(49/2$^+$)		H	
11300 *20*		E		E(level): Analog of ^{101}Ru g.s., J^{π}=5/2$^+$.
11597 *20*		E		E(level): Possible analog of ^{101}Ru E(levels)=311+307.

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Adopted Levels, Gammas (continued)

^{101}Rh Levels (continued)

E(level)	J^{π}[†]	XREF	Comments
11607 *20*		E	E(level): Analog of ^{101}Ru 325-keV L=0 (d,p) excitation (1977Ho02).
11839 *20*		E	E(level): Possible analog of ^{101}Ru 535-keV L=2 (d,p) excitation:
11933 *20*		E	
12127.6[c] *9*	$53/2^-$	H	
12382.1[@] *10*	$(53/2^+)$	H	
13756.3[@] *11*	$(57/2^+)$	H	
13833.6[c] *14*	$57/2^-$	H	
15407.2[@] *15*	$(61/2^+)$	H	
17234.3[@] *18*	$(65/2^+)$	H	

[†] The target in (p,t) has $J^{\pi}=1/2^-$.
[‡] Band(A): band based on $9/2^+$, $\alpha=+1/2$.
[#] Band(a): band based on $9/2^+$, $\alpha=-1/2$.
[@] Band(B): band based on $(25/2^+)$, $\alpha=+1/2$.
[&] Band(b): band based on $(25/2^+)$, $\alpha=-1/2$.
[a] Band(C): band based on $17/2^-$, $\alpha=+1/2$.
[b] Band(c): band based on $17/2^-$, $\alpha=-1/2$.
[c] Band(D): band based on $23/2^-$, $\alpha=-1/2$.
[d] Band(d): band based on $23/2^-$, $\alpha=+1/2$.
[e] Band(E): gs band, $\alpha=+1/2$.
[f] Band(e): gs band, $\alpha=-1/2$.

Adopted Levels, Gammas (continued)

$\gamma(^{101}Rh)$

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ[#]	α[@]	Comments
157.32	$9/2^+$	157.41 *4*	100	0.0	$1/2^-$	M4		29.2	α=29.2 B(M4)(W.u.)=67.2 *24* E_γ: from IT Decay.
181.78	$7/2^+$	24.46 *1*	100	157.32	$9/2^+$	M1+E2	0.020 *+5−6*	20.8 *1*	α=20.8 *1* B(M1)(W.u.)=0.788 *25*; B(E2)(W.u.)=4.8×10^2 *25*
305.42	$(3/2^-)$	305.28 *16*	100	0.0	$1/2^-$				
355.24	$5/2^-$	355.28 *9*	100	0.0	$1/2^-$	E2			
478.06	$(5/2)^+$	296.29 *3*	100 *3*	181.78	$7/2^+$	M1+E2	0.29 *3*	0.0195 *2*	α=0.0195 *2* B(M1)(W.u.)=0.011 *3*; B(E2)(W.u.)=10 *3*
		320.74 *4*	3.3 *4*	157.32	$9/2^+$	E2		0.023	α=0.023 B(E2)(W.u.)=2.8 *8*
747.77	$11/2^+$	590.4 *3*	100	157.32	$9/2^+$	M1			
747.8	$7/2^+$	269.67 *7*	53.3 *10*	478.06	$(5/2)^+$	M1		0.024	α=0.024 B(M1)(W.u.)>0.0016 I_γ: see 590γ.
		565.98 *5*	28.5 *7*	181.78	$7/2^+$	M1,E2			I_γ: see 590γ.
		590.44 *6*	100 *2*	157.32	$9/2^+$	M1+E2	0.68 *+12−14*		B(M1)(W.u.)>0.00018; B(E2)(W.u.)>0.19 I_γ: from ε decay, in (p,nγ) part of the 590γ is due to the excit of the $11/2^+$ level.
851.35	$(7/2^-)$	496.09 *12*	100	355.24	$5/2^-$	M1,E2			
		545.1[&] *5*	50[&]	305.42	$(3/2^-)$				I_γ: From (^{12}C,4pnγ).
893.40	$13/2^+$	145.9[&] *3*	≤18.3[&]	747.77	$11/2^+$	D			
		736.0 *2*	100	157.32	$9/2^+$	Q			
899.35	$9/2^-$	544.1 *2*	100	355.24	$5/2^-$	E2			
905.69	$(5/2,7/2)^+$	158.0 *5*	1.2 *5*	747.8	$7/2^+$				
		427.65 *8*	5.0 *3*	478.06	$(5/2)^+$	M1,E2			I_γ: from (p,nγ).
		723.75 *10*	100 *6*	181.78	$7/2^+$	M1(+E2)			I_γ: from (p,nγ).
		748.37 *5*	25.6 *10*	157.32	$9/2^+$	M1,E2			I_γ: from (p,nγ).
		905.8 *3*	0.4 *2*	0.0	$1/2^-$				
978.16	$(7/2,9/2)^+$	230.8 *2*	31.1 *11*	747.8	$7/2^+$				
		796.62 *15*	100 *3*	181.78	$7/2^+$	M1,E2			
		821.1 *2*	37.7 *11*	157.32	$9/2^+$				
996.4	$3/2^-,5/2^-$	641.1		355.24	$5/2^-$				
		691.0		305.42	$(3/2^-)$				
1035.63	$(5/2)^+$	129.7 *10*	17 *8*	905.69	$(5/2,7/2)^+$				
		557.2 *2*		478.06	$(5/2)^+$				I_γ: Weak.
		853.6 *2*	100 *9*	181.78	$7/2^+$	M1,E2			
1058.00	$3/2^-,5/2^-$	702.6 *2*	100 *3*	355.24	$5/2^-$				
		752.6 *2*	71 *3*	305.42	$(3/2^-)$				
1320.26	(3/2)	965.3 *2*	83 *41*	355.24	$5/2^-$				
		1014.56 *19*	100 *33*	305.42	$(3/2^-)$				
1359.37	$7/2^+$	381.2 *4*	2.5 *5*	978.16	$(7/2,9/2)^+$	M1,E2			

$^{101}_{45}Rh_{56}$-5

Adopted Levels, Gammas (continued)

$\gamma(^{101}Rh)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ[#]	α[@]	Comments
1359.37	$7/2^+$	453.69 *5*	39.9 *15*	905.69	$(5/2,7/2)^+$	M1(+E2)			
		611.44 *10*	6.2 *6*	747.8	$7/2^+$	M1,E2			
		881.29 *8*	7.1 *6*	478.06	$(5/2)^+$	M1,E2			
		1177.63 *8*	23.3 *13*	181.78	$7/2^+$	M1(+E2)			
		1202.04 *6*	100 *4*	157.32	$9/2^+$	M1(+E2)			
1383.4	3/2	1028.1 *3*	100	355.24	$5/2^-$				
1470.81	$5/2^+,7/2^+$	111.40 *8*	0.50 *17*	1359.37	$7/2^+$	(M1)		0.26	α=0.26
		435.08 *8*	2.8 *3*	1035.63	$(5/2)^+$	E2			
		492.0 *4*	0.42 *17*	978.16	$(7/2,9/2)^+$				
		619.45 *12*	1.76 *25*	851.35	$(7/2^-)$				
		722.9 *2*	12 *3*	747.8	$7/2^+$	M1,E2			
		992.82 *6*	41.3 *12*	478.06	$(5/2)^+$	M1,E2			
		1165.7 *6*	0.42 *25*	305.42	$(3/2^-)$				
		1289.04 *5*	100 *3*	181.78	$7/2^+$	M1			
		1313.0 *25*	3.2 *9*	157.32	$9/2^+$	(E2)			
1576.9	$11/2^-$	677.6 *3*	100	899.35	$9/2^-$				
		726		851.35	$(7/2^-)$				E_γ: Reported only in (^{12}C,p4nγ), No branching given.
1604.0	$(7/2^-,9/2^-)$	132.8 *7*	100 *36*	1470.81	$5/2^+,7/2^+$	(E1)			
		857.0 *5*	36 *17*	747.8	$7/2^+$				
		1126.0		478.06	$(5/2)^+$				E_γ: Only reported in (p,nγ), but the others only in ε decay.
		1446.0 *5*	18 *9*	157.32	$9/2^+$				
1604.5	$(13/2^-)$	705.2 *3*	100	899.35	$9/2^-$	Q			
1607.4		859.6 *3*	100	747.8	$7/2^+$				
1609.0	$(15/2^+)$	715.8 *3*	71 *3*	893.40	$13/2^+$	E2+M1	−0.59 *+17−14*		
		861.1 *3*	<100	747.77	$11/2^+$				I_γ: Intensity for unresolved triplet.
1696.33	$3/2^+,5/2^+,7/2^+$	790.4 *2*	4.4 *7*	905.69	$(5/2,7/2)^+$	M1,E2			
		949.0 *4*	1.5 *7*	747.8	$7/2^+$				
		1218.28 *7*	100 *4*	478.06	$(5/2)^+$	M1(+E2)			
		1391.2 *6*	1.1 *4*	305.42	$(3/2^-)$				
		1514.5 *2*	5.2 *11*	181.78	$7/2^+$				
1777.9	$3/2^-,5/2^-$	1422.6 *3*	100	355.24	$5/2^-$				
1778.8	$(17/2^+)$	169.9 *3*	6.1 *10*	1609.0	$(15/2^+)$	D			
		885.3 *3*	100 *20*	893.40	$13/2^+$	Q			
1789.49	$5/2^+,7/2^+$	185.0 *10*	100 *40*	1604.0	$(7/2^-,9/2^-)$				
		1041.73 *15*	5.8 *8*	747.8	$7/2^+$	M1,E2			
		1311.5 *3*	16 *3*	478.06	$(5/2)^+$	M1,E2			
		1607.7 *3*	2.8 *4*	181.78	$7/2^+$				
		1632.5 *3*	2.0 *4*	157.32	$9/2^+$				
1820.59	$5/2^+,7/2^+$	914.86 *12*	75 *8*	905.69	$(5/2,7/2)^+$	M1,E2			
		1072.9 *2*	29 *8*	747.8	$7/2^+$				
		1342.5 *2*	25 *4*	478.06	$(5/2)^+$				

$^{101}_{45}Rh_{56}$-6

Adopted Levels, Gammas (continued)

γ(^{101}Rh) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]
1820.59	5/2$^+$,7/2$^+$	1638.6 *3*	100 *10*	181.78	7/2$^+$	M1,E2
		1663.6 *4*	2.1 *12*	157.32	9/2$^+$	
1843.0	(13/2$^-$)	239.0 *10*	1	1604.5	(13/2$^-$)	
1845.33		374.6 *2*	100 *67*	1470.81	5/2$^+$,7/2$^+$	
		787.0 *4*	83 *40*	1058.00	3/2$^-$,5/2$^-$	
1911.40	3/2$^-$,5/2$^-$	1163.6 *2*	33 *20*	747.8	7/2$^+$	
		1433.4 *3*	100 *33*	478.06	(5/2)$^+$	
		1729.6 *3*	30 *10*	181.78	7/2$^+$	
2386.7	(17/2$^-$)	782.2 *3*	100	1604.5	(13/2$^-$)	Q
2586.3	19/2$^+$	807.5 *3*	100	1778.8	(17/2$^+$)	
2653.8		875.0 *3*	100	1778.8	(17/2$^+$)	
2671.8	(17/2$^-$)	285.2 *3*	29.8 *24*	2386.7	(17/2$^-$)	
		1067.2 *3*	100 *4*	1604.5	(13/2$^-$)	Q
2781.0	(21/2$^+$)	1002.2 *3*	100	1778.8	(17/2$^+$)	Q
2785.1	17/2$^-$	398.3 *3*	100	2386.7	(17/2$^-$)	
2931.2	19/2$^-$	145.9[&] *3*	22.5[&] *10*	2785.1	17/2$^-$	
		259.4 *3*	5.9 *6*	2671.8	(17/2$^-$)	
		544.6 *3*	100 *4*	2386.7	(17/2$^-$)	
3119.5	21/2$^-$	188.5 *2*	100 *20*	2931.2	19/2$^-$	M1+E2
		447.4 *10*	1.3 *3*	2671.8	(17/2$^-$)	
		733.8 *5*	16 *3*	2386.7	(17/2$^-$)	E2
3247.7	21/2$^-$	861.0 *3*	100	2386.7	(17/2$^-$)	
3425.1	23/2$^-$	175.5 *10*	2.9 *6*	3247.7	21/2$^-$	D
		305.5 *2*	100 *20*	3119.5	21/2$^-$	M1+E2
		494.3 *10*	1.4 *3*	2931.2	19/2$^-$	
		644.5 *5*	10 *2*	2781.0	(21/2$^+$)	D
3530.5	23/2$^-$	281.1 *10*	12 *2*	3247.7	21/2$^-$	D
		410.9 *2*	68 *14*	3119.5	21/2$^-$	M1+E2
		749.7 *2*	100 *20*	2781.0	(21/2$^+$)	E1
3744.2	25/2$^-$	213.6 *2*	33 *7*	3530.5	23/2$^-$	M1+E2
		318.9 *2*	100 *20*	3425.1	23/2$^-$	M1+E2
		624.0[a] *10*	2.9[a] *6*	3119.5	21/2$^-$	
3763.3	(23/2$^-$)	513.7 *10*	100	3247.7	21/2$^-$	D
3874.2	(25/2$^+$)	1093.2 *3*	100	2781.0	(21/2$^+$)	Q
3890.0	(23/2$^+$)	1109.2 *5*	100	2781.0	(21/2$^+$)	D
3930.8	25/2$^-$	400.5 *5*	80 *16*	3530.5	23/2$^-$	D
		506.0 *5*	100 *20*	3425.1	23/2$^-$	M1+E2
		811.6 *5*	47 *9*	3119.5	21/2$^-$	Q
3994.2	(25/2$^-$)	744.9 *10*	100	3247.7	21/2$^-$	
4071.7	(25/2$^-$)	308.4 *10*	100	3763.3	(23/2$^-$)	
4236.6	27/2$^-$	305.5 *5*	8.3 *17*	3930.8	25/2$^-$	
		492.1 *2*	100 *20*	3744.2	25/2$^-$	M1+E2
		811.4 *5*	47 *9*	3425.1	23/2$^-$	Q

$^{101}_{45}Rh_{56}$-7

Adopted Levels, Gammas (continued)

γ(^{101}Rh) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]
4303.5	27/2$^-$	372.8 *2*	100 *20*	3930.8	25/2$^-$	D
		559.5 *5*	43 *9*	3744.2	25/2$^-$	D
		774.1 *5*	48 *10*	3530.5	23/2$^-$	Q
4571.0		576.8 *10*	100 *20*	3994.2	(25/2$^-$)	
		1145.6 *10*	100 *20*	3425.1	23/2$^-$	
4609.6	29/2$^-$	306.1 *2*	61 *12*	4303.5	27/2$^-$	D
		373.0 *2*	100 *20*	4236.6	27/2$^-$	M1+E2
		865.4 *2*	64 *13*	3744.2	25/2$^-$	E2
4773.4	(27/2$^+$)	202.2 *10*	50 *10*	4571.0		
		389.2 *10*	100 *20*	4384.4	(25/2$^+$)	
		779.3 *10*	75 *15*	3994.2	(25/2$^-$)	
		1028.5 *10*	75 *15*	3744.2	25/2$^-$	
4801.2	29/2$^-$	190.4 *10*	5 *1*	4609.6	29/2$^-$	
		497.6 *5*	65 *13*	4303.5	27/2$^-$	D
		564.3 *2*	100 *20*	4236.6	27/2$^-$	D
		870.9 *5*	40 *8*	3930.8	25/2$^-$	
4825.0	(27/2$^+$)	935.1 *5*	100	3890.0	(23/2$^+$)	Q
4979.9	29/2$^+$	1105.0 *5*	100	3874.2	(25/2$^+$)	Q
5196.7	(29/2$^+$)	423.3 *10*	100 *20*	4773.4	(27/2$^+$)	D
		812.1 *10*	25 *5*	4384.4	(25/2$^+$)	
		1322.1 *10*	12.5 *25*	3874.2	(25/2$^+$)	
5230.4	31/2$^-$	429.0 *2*	100 *20*	4801.2	29/2$^-$	M1+E2
		619.9 *10*	12.0 *24*	4609.6	29/2$^-$	
		927.2 *2*	68 *14*	4303.5	27/2$^-$	Q
		994.1 *5*	32 *6*	4236.6	27/2$^-$	Q
5234.5	(31/2$^-$)	624.9 *5*	100	4609.6	29/2$^-$	
5627.1	(31/2$^+$)	430.3 *5*	100 *20*	5196.7	(29/2$^+$)	
		853.6 *10*	38 *8*	4773.4	(27/2$^+$)	
5728.1	33/2$^-$	497.8 *2*	100 *20*	5230.4	31/2$^-$	M1+E2
		926.9 *5*	60 *12*	4801.2	29/2$^-$	E2
		1118.2 *5*	50 *10*	4609.6	29/2$^-$	Q
5846.3	33/2$^-$	1044.7 *5*	20 *4*	4801.2	29/2$^-$	
		1236.7 *2*	100 *20*	4609.6	29/2$^-$	Q
5881.5	(31/2$^+$)	1056.6 *5*	100	4825.0	(27/2$^+$)	Q
6082.8	33/2$^+$	1103.0 *5*	100	4979.9	29/2$^+$	Q
6116.9	(33/2$^+$)	489.2 *5*	100 *20*	5627.1	(31/2$^+$)	D
		920.3 *10*	38 *8*	5196.7	(29/2$^+$)	
6309.6	35/2$^-$	463.1 *5*	25 *5*	5846.3	33/2$^-$	
		581.0 *5*	50 *10*	5728.1	33/2$^-$	M1+E2
		1079.2 *2*	100 *20*	5230.4	31/2$^-$	E2
6633.1	(35/2$^+$)	516.2 *5*	67 *13*	6116.9	(33/2$^+$)	
6633.1	(35/2$^+$)	550.8 *10*	22 *4*	6082.8	33/2$^+$	
		751.7 *5*	100 *20*	5881.5	(31/2$^+$)	Q
		1005.5 *10*	33 *7*	5627.1	(31/2$^+$)	
6706.4	(35/2$^+$)	588.8 *5*	100 *20*	6116.9	(33/2$^+$)	
		1079.8 *5*	100 *20*	5627.1	(31/2$^+$)	
6882.5	37/2$^-$	573.4 *5*	76 *15*	6309.6	35/2$^-$	M1+E2
		1154.5 *2*	100 *20*	5728.1	33/2$^-$	Q
6994.2	37/2$^-$	1147.9 *2*	100	5846.3	33/2$^-$	Q
7210.4	(37/2$^+$)	503.8 *5*	43 *9*	6706.4	(35/2$^+$)	
		577.3 *5*	50 *10*	6633.1	(35/2$^+$)	
		1093.6 *5*	100 *20*	6116.9	(33/2$^+$)	Q
7213.3	37/2$^+$	1129.9 *10*	100	6082.8	33/2$^+$	Q
7536.0	39/2$^-$	1226.2 *2*	100	6309.6	35/2$^-$	E2
7840.3	(39/2$^+$)	630.6 *5*	60 *12*	7210.4	(37/2$^+$)	
		1207.5 *5*	100 *20*	6633.1	(35/2$^+$)	
8161.0	41/2$^-$	624.0[a] *5*	100[a] *20*	7536.0	39/2$^-$	D
		1279.5 *5*	100 *20*	6882.5	37/2$^-$	Q
8287.6	41/2$^-$	1293.4 *5*	100	6994.2	37/2$^-$	Q
8392.4	(41/2$^+$)	552.4 *5*	47 *10*	7840.3	(39/2$^+$)	
		1178.6 *10*	10.5 *21*	7213.3	37/2$^+$	
		1181.9 *2*	100 *20*	7210.4	(37/2$^+$)	Q
8926.0	43/2$^-$	1390.0 *5*	100	7536.0	39/2$^-$	Q
9066.9	(43/2$^+$)	674.2 *5*	71 *14*	8392.4	(41/2$^+$)	
		1227.2 *5*	100 *20*	7840.3	(39/2$^+$)	
9464.5	45/2$^-$	1303.4 *5*	100	8161.0	41/2$^-$	Q
9507.6	45/2$^-$	1220.0 *10*	100	8287.6	41/2$^-$	Q
9647.6	(45/2$^+$)	580.8 *5*	50 *10*	9066.9	(43/2$^+$)	
		1255.1 *2*	100 *20*	8392.4	(41/2$^+$)	Q
10219.9	47/2$^-$	1294.0 *5*	100	8926.0	43/2$^-$	Q
10414.1	(47/2$^+$)	766.2 *5*	87 *17*	9647.6	(45/2$^+$)	
		1347.5 *5*	100 *20*	9066.9	(43/2$^+$)	
10689.9	49/2$^-$	470.0 *5*	71 *14*	10219.9	47/2$^-$	
		1225.4 *5*	100 *20*	9464.5	45/2$^-$	Q
11029.7	(49/2$^+$)	615.4 *5*	100	10414.1	(47/2$^+$)	
		1382.2 *5*	100	9647.6	(45/2$^+$)	
12127.6	53/2$^-$	1437.7 *5*	100	10689.9	49/2$^-$	Q
12382.1	(53/2$^+$)	1352.4 *5*	100	11029.7	(49/2$^+$)	
13756.3	(57/2$^+$)	1374.2 *5*	100	12382.1	(53/2$^+$)	
13833.6	57/2$^-$	1706.0 *10*	100	12127.6	53/2$^-$	Q
15407.2	(61/2$^+$)	1650.9 *10*	100	13756.3	(57/2$^+$)	
17234.3	(65/2$^+$)	1827.1 *10*	100	15407.2	(61/2$^+$)	

Adopted Levels, Gammas (continued)

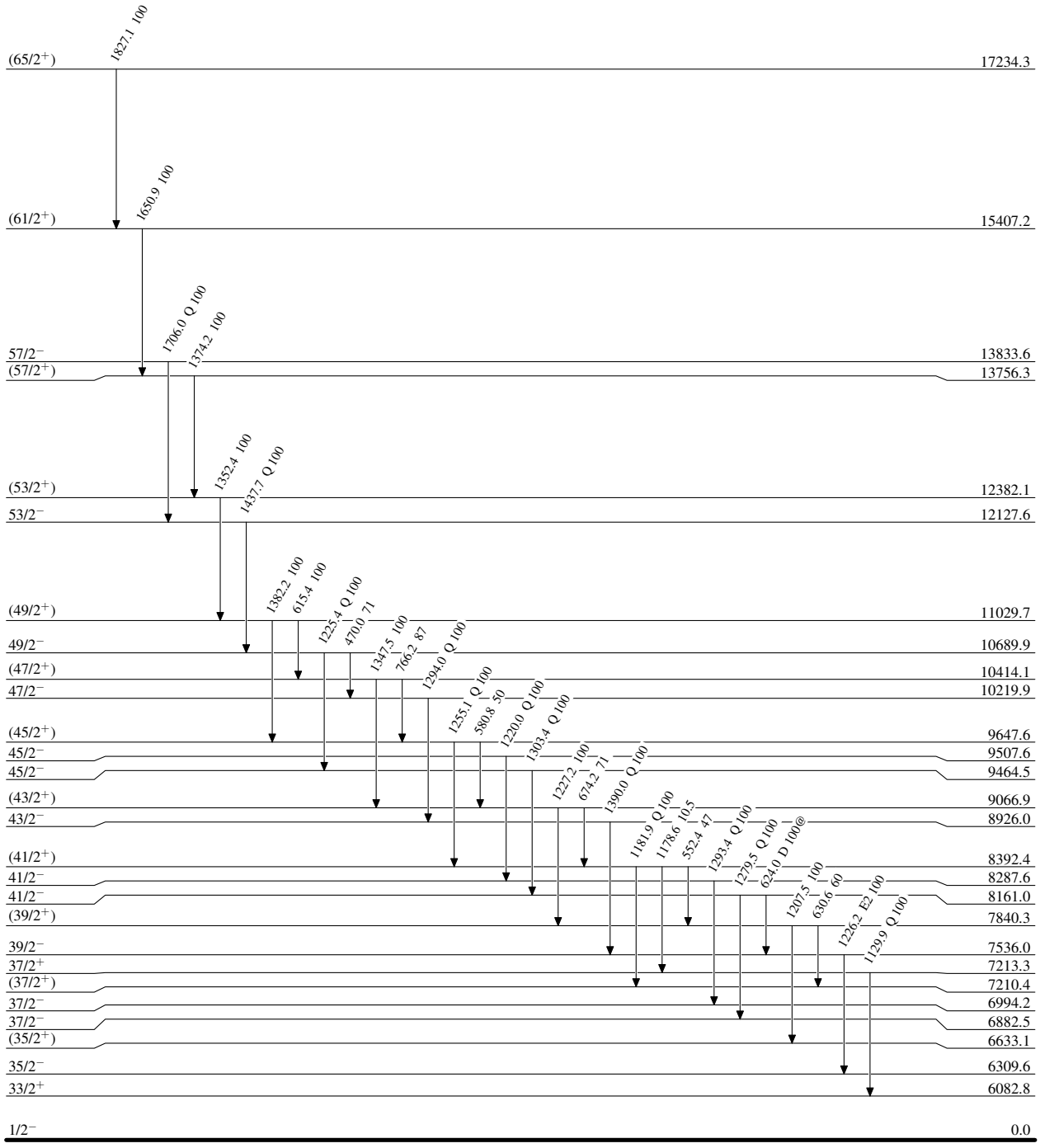
$\gamma(^{101}Rh)$ (continued)

[†] Weighted average of all available data, unless otherwise noted.
[‡] From ^{101}Pd ε decay.
[#] From ^{101}Pd ε decay and ^{98}Mo(^{6}Li,3n).
[@] 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.
[a] Multiply placed with intensity suitably divided.

Adopted Levels, Gammas

Level Scheme

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

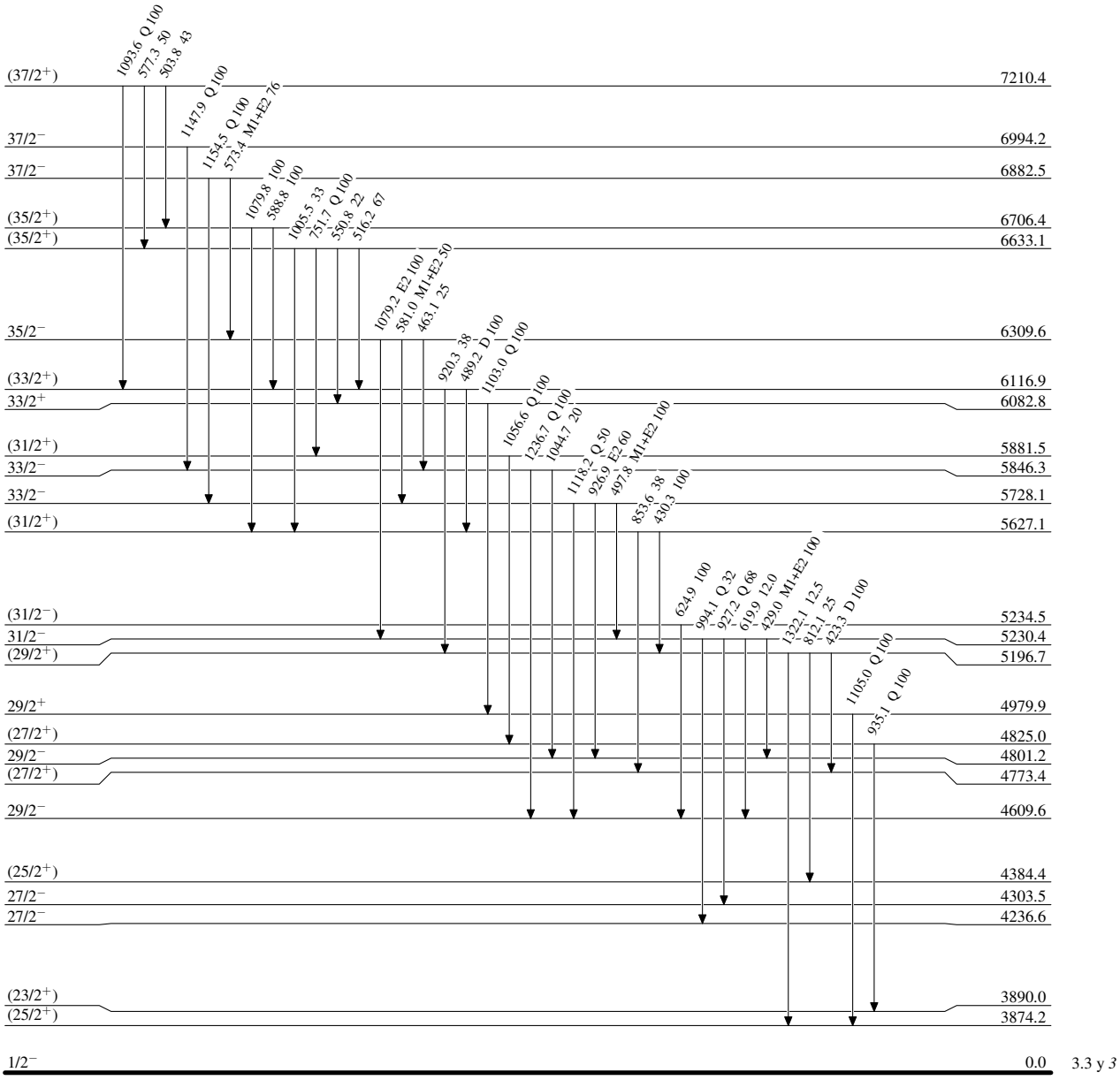


$^{101}_{45}Rh_{56}$

Adopted Levels, Gammas

Level Scheme (continued)

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

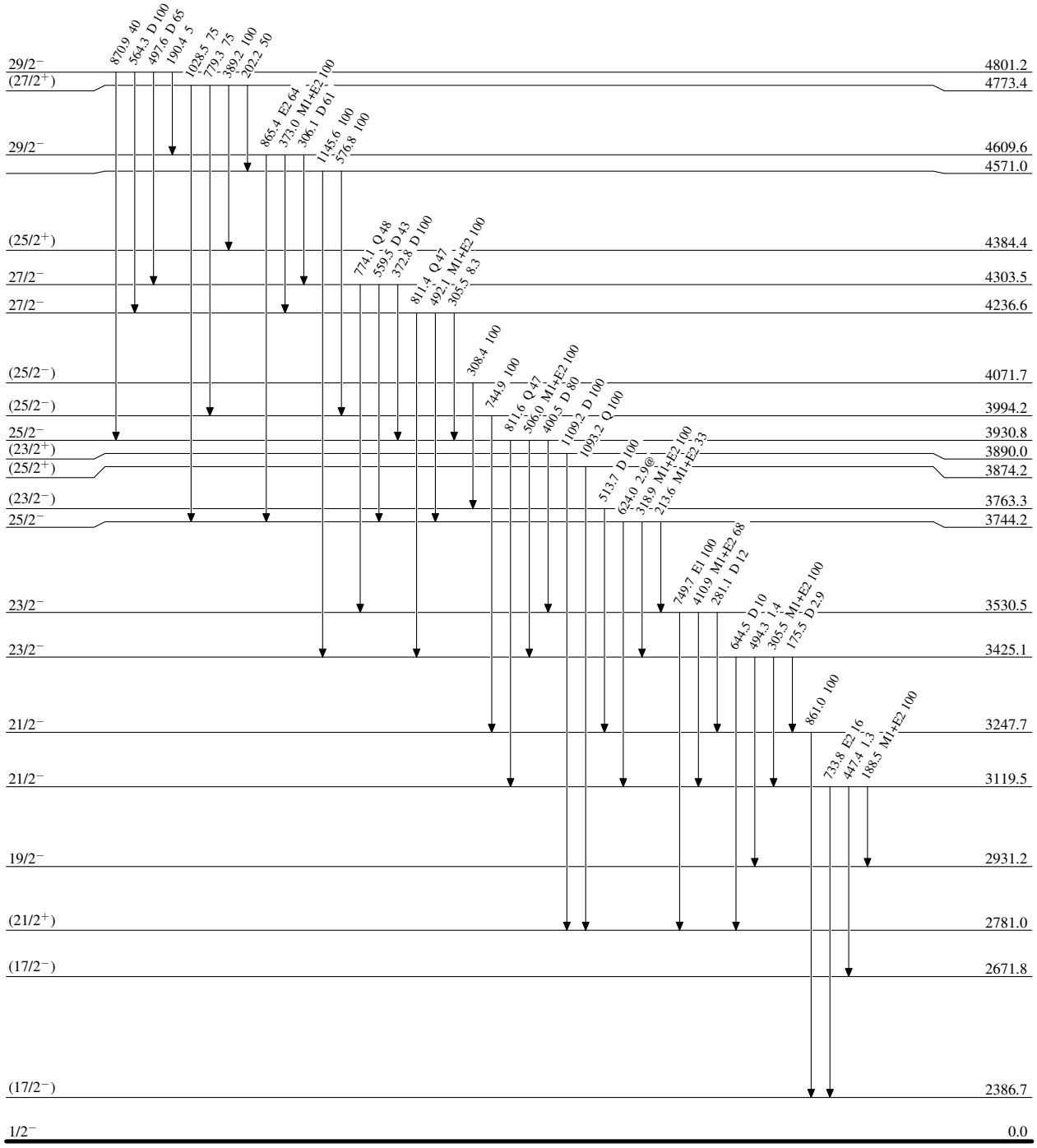


$^{101}_{45}Rh_{56}$

Adopted Levels, Gammas

Level Scheme (continued)

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

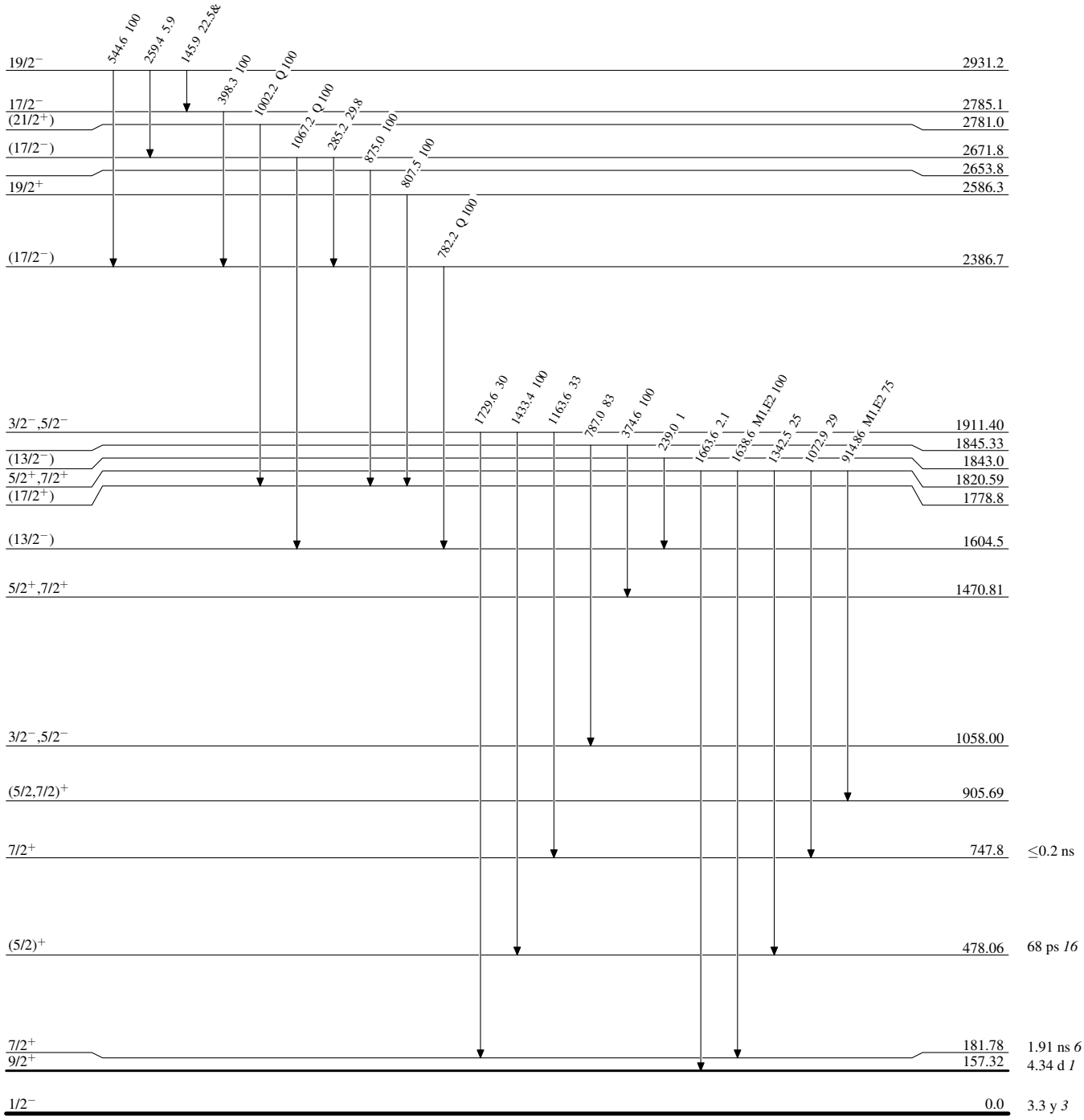


$^{101}_{45}Rh_{56}$

Adopted Levels, Gammas

Level Scheme (continued)

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

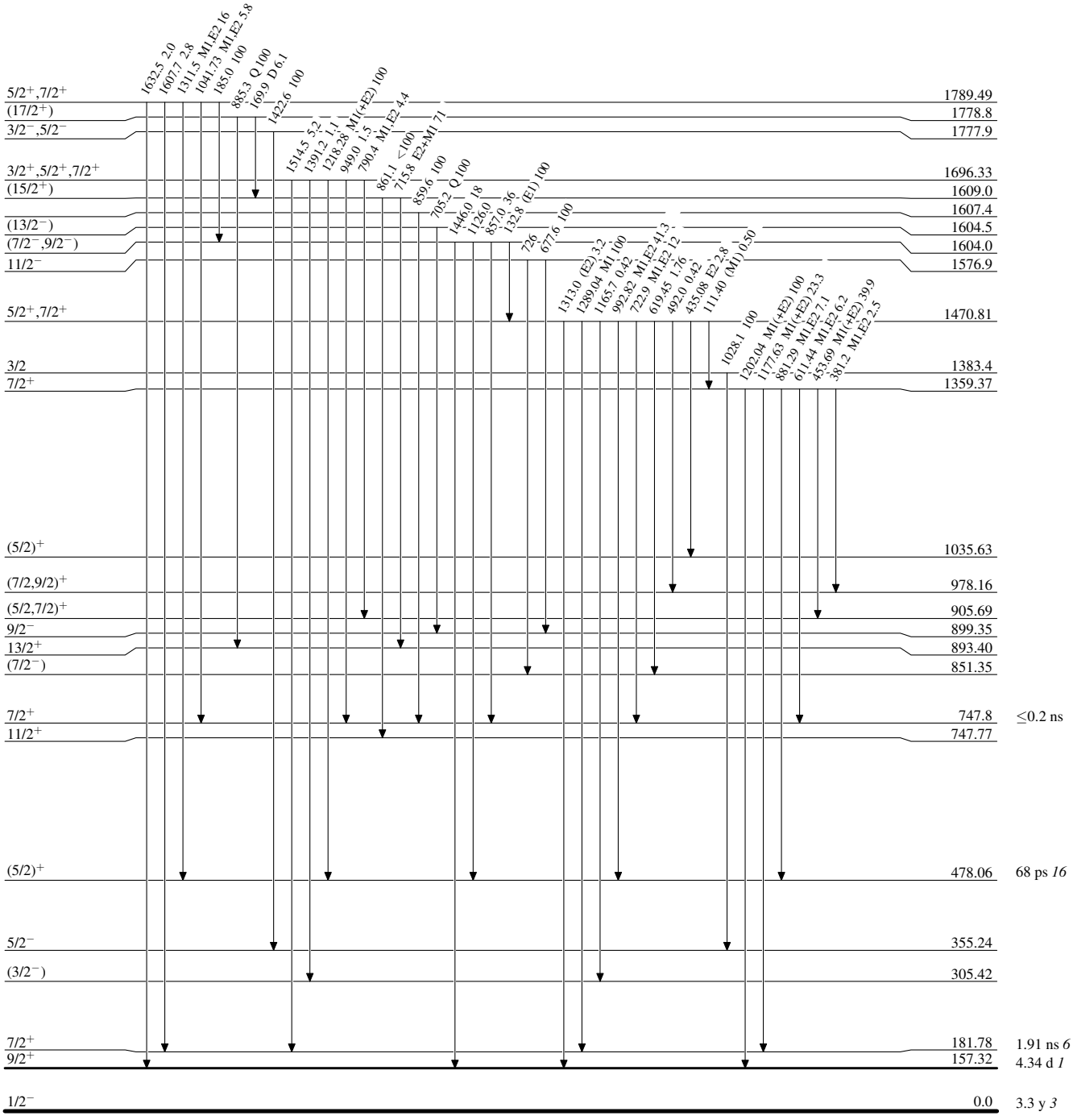


$^{101}_{45}Rh_{56}$

Adopted Levels, Gammas

Level Scheme (continued)

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

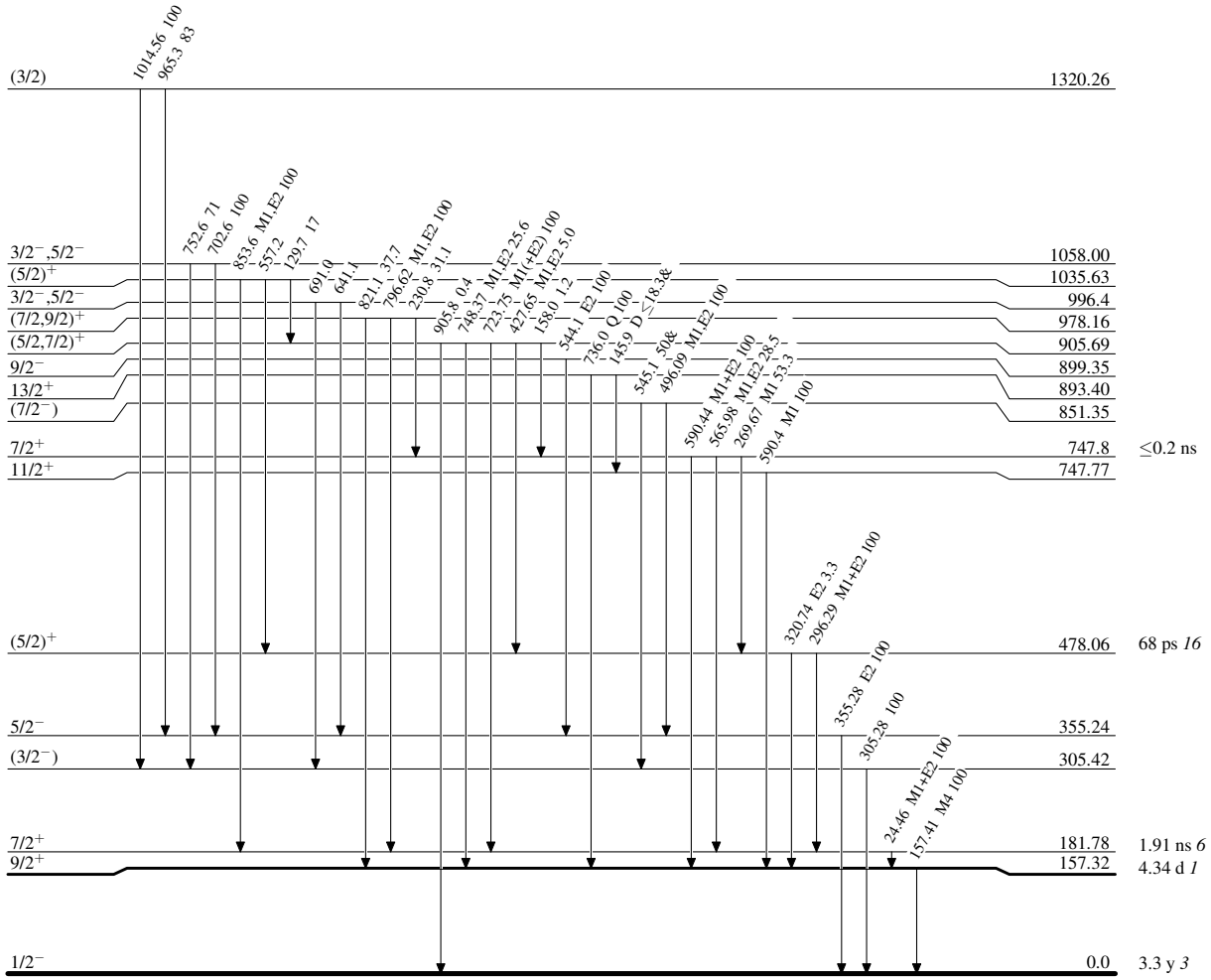


$^{101}_{45}Rh_{56}$

Adopted Levels, Gammas

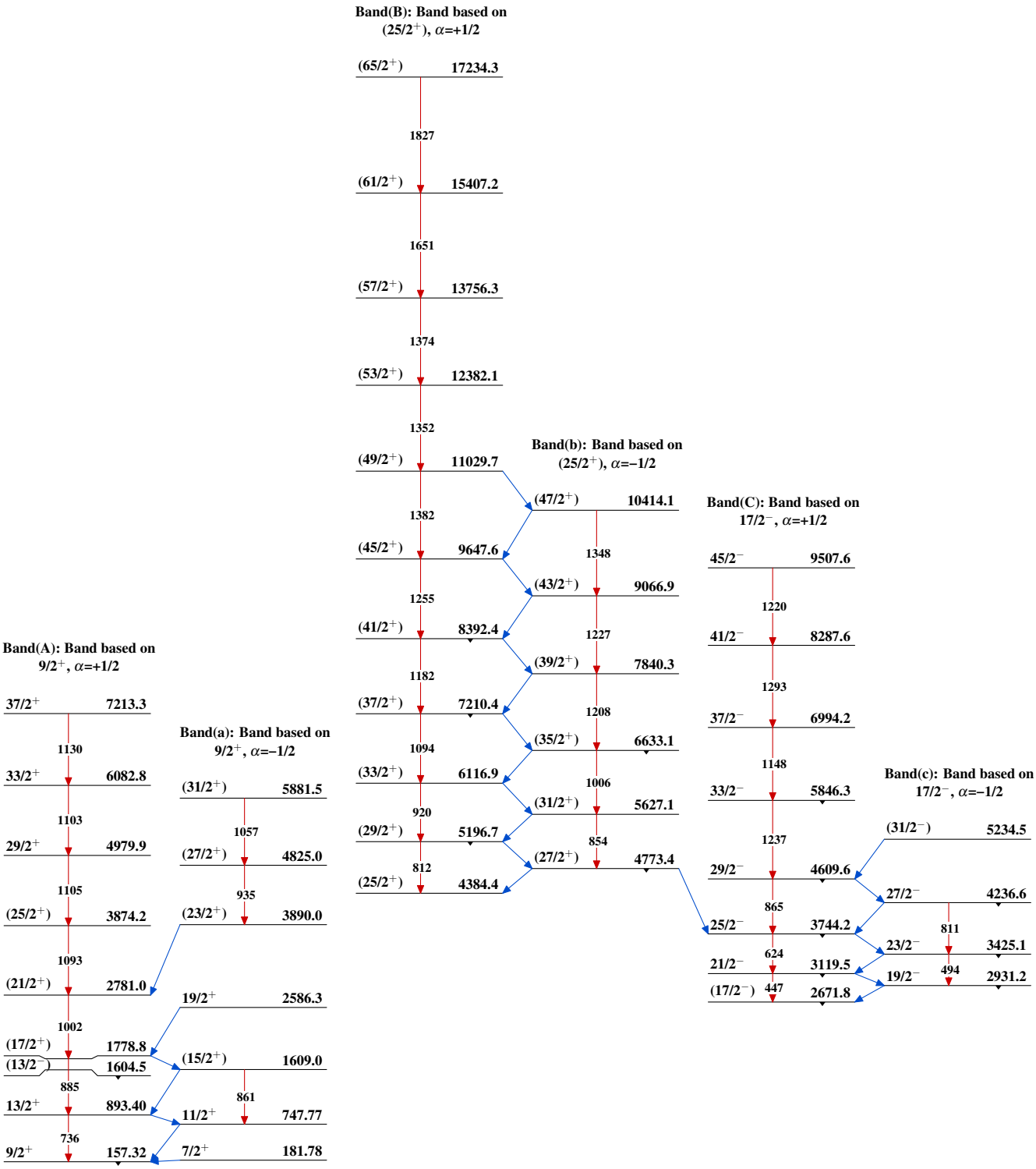
Level Scheme (continued)

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



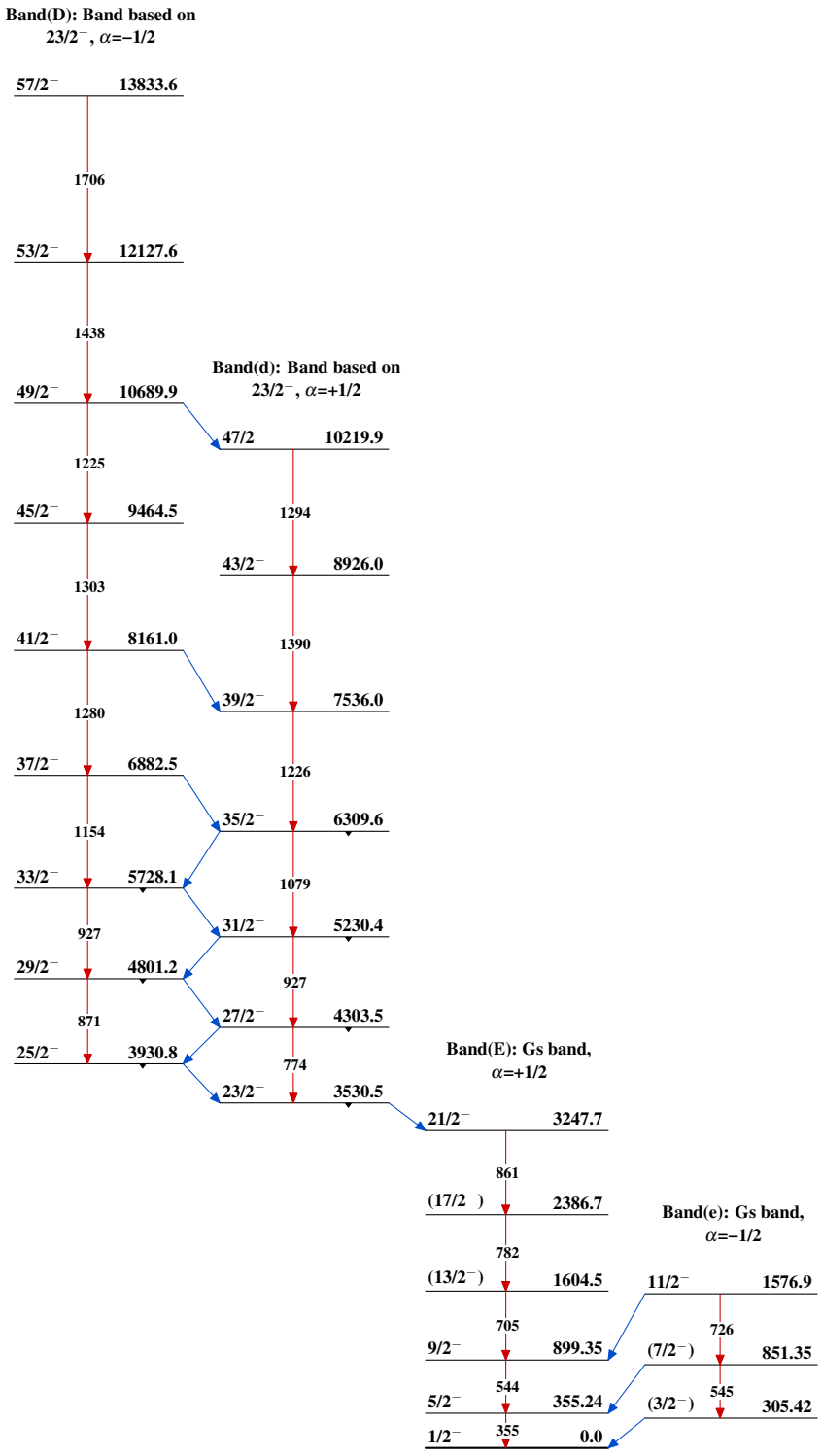
$^{101}_{45}Rh_{56}$

Adopted Levels, Gammas



$^{101}_{45}Rh_{56}$

Adopted Levels, Gammas (continued)



$^{101}_{45}Rh_{56}$