Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 109,2501 (2008)	1-Apr-2008

Q(β^-)=−6393 *10*; S(n)=10694 *10*; S(p)=7348 *5*; Q(α)=−1696.2 *9* 2012Wa38
Note: Current evaluation has used the following Q record −6393 1010694 107344 9 −1692 9 2003Au03.
α: Additional information 1.

^{96}Ru Levels

Cross Reference (XREF) Flags

A	^{96}Rh ε decay (9.90 min)	F	Coulomb excitation
B	^{96}Rh ε decay (1.51 min)	G	^{96}Ru(γ,γ')
C	(HI,xnγ)	H	^{65}Cu(^{36}S,p4nγ)
D	^{96}Ru(p,p′γ)	I	^{95}Mo(^{3}He,2nγ)
E	^{96}Ru(α,α')		

E(level)	J$^\pi$†	T$_{1/2}$‡	XREF	Comments
0.0#	0$^+$	stable	ABCDEFGHI	T$_{1/2}$: With Q(2ε)=2718 keV 8 and Q(2β^+)=674 keV 8 (2003Au03), ^{96}Ru could decay to ^{96}Mo by 2ε, 2β^+ or $\varepsilon\beta^+$. Experimentally, only upper limits were obtained, the shortest value being T$_{1/2}$(2β^+)>3.1x10^{16} y with a 68% confidence level (1985No03). <r^2>$^{1/2}$(charge)=4.393 *5* (2004An14).
832.56# *5*	2$^+$	2.94 ps *6*	ABCDEFGHI	Q=−0.13 *9* (1980La01,1989Ra17); B(E2)↑=0.240 *5* J$^\pi$: γ to 0$^+$ is E2. T$_{1/2}$: from B(E2) value, see Coulomb Excitation dataset.
1518.05# *6*	4$^+$	6.9 ps *5*	ABCDEF HI	J$^\pi$: stretched E2 cascade in (α,2nγ). T$_{1/2}$: Weighted av of 6.8 ps *7* from ^{65}Cu(^{36}S,p4nγ), 6.9 ps *9* from Coulomb excitation and 6.9 ps *9* from ^{95}Mo(^{3}He,2nγ).
1931.07 *6*	2$^+$	0.38 ps *3*	AB D FG I	T$_{1/2}$: Weighted av of 0.38 ps *+15−11* from ^{96}Ru(p,p′γ), 0.39 ps *6* from Coulomb excitation and 0.37 ps *6* from ^{95}Mo(^{3}He,2nγ). J$^\pi$: E2+M1 γ to 2$^+$. J=2 from p$\gamma(\theta)$ in (p,p′γ) (1979La15,1986Ad04).
2148.78 *7*	0$^+$	0.46[d] ps *+63−18*	B D I	J$^\pi$: from p$\gamma(\theta)$ in (p,p′γ), E2 γ to 2$^+$.
2149.74# *7*	6$^+$	15 ps *5*	A CDE HI	J$^\pi$: from Hauser-Feshbach analysis, E2 γ to 4$^+$. T$_{1/2}$: Weighted av of 12.7 ps *10* from ^{65}Cu(^{36}S,p4nγ) and 26 ps *2* form ^{95}Mo(^{3}He,2n).
2283.88 *9*	2$^+$	0.15 fs *5*	AB D F I	J$^\pi$: from $\sigma(\theta)$ in Coulomb Excitation. T$_{1/2}$: from B(E2) (Coulomb Excitation).
2462.16 *9*	4	0.10[a] ps *+5−3*	AB D I	J$^\pi$: J from $\gamma\gamma(\theta)$ (2002Kl07).
2524.85 *9*	3$^+$,4$^+$	<0.4[d] ps	AB D I	J$^\pi$: p$\gamma(\theta)$ in (p,p′γ) and Hauser-Feshbach analysis.
2528.47 *10*	1$^+$,2$^+$		D I	J$^\pi$: from p$\gamma(\theta)$ in (p,p′γ).
2576.02 *9*	(2$^+$)		AB D I	
2579.02 *15*	1$^+$,2$^+$,3$^+$		D	E2+M1 γ to 2$^+$.
2588.41@ *8*	5$^-$	≥2.8 ps	ABCD HI	J$^\pi$: E1 γ to 4$^+$ and log *ft*=6.8 from 6$^+$.
2649.99 *9*	3$^{(-)}$		AB D I	J$^\pi$: J from $\gamma\gamma(\theta)$ (2002Kl07), parity from syst.
2699.80 *18*	4$^+$,5		D I	
2739.78 *12*	(2$^+$)	<0.4[d] ps	B D I	J$^\pi$: From p$\gamma(\theta)$ in (p,p′γ), Hauser-Feshbach analysis in (p,p′γ) gives 2$^+$,3$^+$, γ to 0$^+$ excludes 3$^+$.
2760.20 *9*	(4$^+$,5)	<0.12[d] ps	AB D I	J$^\pi$: Hauser-Feshbach analysis in (p,p′γ).
2793.89 *8*	(5,6)		A E I	J$^\pi$: From $\gamma\gamma(\theta)$ and spin and parity selection rules from 2002Kl07.

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Adopted Levels, Gammas (continued)

^{96}Ru Levels (continued)

E(level)	J^{π}[†]	$T_{1/2}$[‡]	XREF	Comments
2851.12 *14*	$(2^+,3)$	0.14[a] ps *+10−5*	DE I	J^{π}: From $\gamma\gamma(\theta)$ and spin and parity selection rules from 2002Kl07.
2891.64 *9*	6^+	<0.20[d] ps	A C I	J^{π}: $\gamma(\theta)$ in HI reactions.
2897.61 *13*	$3^{(+)}$	<0.4[d] ps	A D I	J^{π}: from $\gamma\gamma(\theta)$ (2002Kl07).
2950.39[#] *8*	8^+	11 ps *4*	A C HI	J^{π}: stretched E2 cascade in $(\alpha,2n\gamma)$. $T_{1/2}$: Weighted av. of 9.5 ps *8* from ^{65}Cu(^{36}S,p4nγ) and 20 ps *2* from ^{95}Mo(^{3}He,2n).
2987.8 *3*	(0,4)		D	
2996.30 *16*	$2^+,3^+,4^+$		B D I	J^{π}: log *ft*=5.4 from 3^+ ^{96}Rh isomer gives $(2,3,4)^+$.
3060.46 *15*	(1,4)		D I	J^{π}: From $\gamma\gamma(\theta)$ and spin and parity selection rules from 2002Kl07.
3072.21 *21*	$(3^-,4)$		I	J^{π}: γ to 5^-; not seen in decay of 6^+ ^{96}Rh isomer.
3076.28 *11*	3^-		B D I	
3077.1 *5*	(5,6)		AB	J^{π}: log *ft*=7.0 from 6^+ ^{96}Rh isomer gives (5,6,7); γ to 4^+.
3090.20 *19*	2^+	<0.13[d] ps	B DE I	J^{π}: log *ft*=5.65 from 3^+ ^{96}Rh isomer gives $2^+,3^+,4^+$; γ to 0^+.
3154.24 *20*	$1^{(+)}$	3.12[ac] fs *14*	G	J^{π}: D γ to 0^+ and two more γ's to 2^+ levels.
3166.76 *21*	(5,6)		A D I	log *ft*=6.3 from 6^+ ^{96}Rh isomer gives (5,6,7); γ to 4^+.
3172.4 *3*	(9^+)		H	
3210.13 *22*	(2,6)		D I	
3232.2 *5*	(0,4)		D	
3261.03 *18*	2^+		B D I	J^{π}: log *ft*=5.42 from 3^+ ^{96}Rh isomer; γ to 0^+.
3281.3 *3*	(3,7)		I	
3282.4 *3*	1	49.2[c] fs *35*	G	J^{π}: D γ to 0^+ g.s.
3291.46[@] *15*	7^-	7.1[b] ps *9*	A C HI	J^{π}: stretched cascade in $(\alpha,2n\gamma)$ and $\gamma\gamma(\theta)$ and spin and parity selection rules from 2002Kl07.
3291.54 *18*	4^+	<0.4[d] ps	AB I	J^{π}: from $\gamma\gamma(\theta)$ (2002Kl07), γ to 2^+.
3306.78 *12*	5		A	J^{π}: log *ft*=6.2 from 6^+ ^{96}Rh isomer gives (5,6,7); γ to $3^{(-)}$.
3362.54 *20*	(4,8)		A	
3377.55 *10*	5^+		A	J^{π}: log *ft*=5.4 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 3^-.
3380.51 *10*	$(6,7)^+$		A	J^{π}: log *ft*=5.4 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 8^+.
3447.9 *10*	1	126[c] fs *21*	G	J^{π}: D γ to 0^+ g.s.
3479.6 *3*	1	35.3[c] fs *28*	G	J^{π}: D γ to 0^+ g.s.
3544.52 *13*	(6,7)		A	J^{π}: γ to 5; log *ft*=6.6 from 6^+ ^{96}Rh isomer gives (5,6,7); γ to 8^+.
3706.50 *18*	$(5,6)^+$		A	J^{π}: log *ft*=5.8 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 4^+.
3742.87 *15*	(5,6)		A	J^{π}: log *ft*=6.3 from 6^+ ^{96}Rh isomer gives (5,6,7); γ to 4^+.
3755.15 *20*	$(5,6,7)^+$		A	J^{π}: log *ft*=5.7 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 8^+.
3805.69 *20*	(5,6,7)		A	J^{π}: log *ft*=6.4 from 6^+ ^{96}Rh isomer.
3817.22[#] *13*	10^+	3.5[b] ps *4*	C H	J^{π}: stretched E2 cascade in $(\alpha,2n\gamma)$.
3887.23 *11*	$(5,6,7)^+$		A	J^{π}: log *ft*=5.4 from 6^+ ^{96}Rh isomer.
3928.6[&] *4*	(10^+)		H	
3951.08[@] *17*	9^-	8.3[b] ps *8*	C H	J^{π}: E2 γ to 7^-.
4057.52 *20*	(5,6)		A	J^{π}: log *ft*=6.0 from 6^+ ^{96}Rh isomer gives (5,6,7); γ to 4^+.
4080.28 *15*	$(5,6,7)^+$		A	J^{π}: log *ft*=5.9 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 2^+ would be an unlikely [M3] and select 5^+.
4112.99 *12*	$(6,7)^+$		A	J^{π}: log *ft*=5.7 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 8^+ 5.69.
4148.2 *5*	(5,6,7)		A	J^{π}: log *ft*=7.5 from 6^+ ^{96}Rh isomer gives (5,6,7); γ to 6^+.
4210.8 *4*	(5,6,7)		A	J^{π}: log *ft*=6.7 from 6^+ ^{96}Rh isomer.
4262.1 *4*	(8,12)		C	
4265.0[&] *4*	(11^+)		H	

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Adopted Levels, Gammas (continued)

^{96}Ru Levels (continued)

E(level)	J^{π}[†]	$T_{1/2}$[‡]	XREF	Comments
4418.27[#] *16*	12^+	21[b] ps *3*	C H	J^{π}: stretched E2 to 10^+.
4521.08 *20*	$(5,6)^+$		A	J^{π}: log *ft*=5.5 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 4 rules out 7.
4534.03 *21*	10^-		C H	
4560.93 *19*	$(5,6)^+$		A	J^{π}: log *ft*=5.6 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 4^+.
4592.5 *5*	(5,6,7)		A	J^{π}: log *ft*=6.0 from 6^+ ^{96}Rh isomer gives (5,6,7); γ to 2^+.
4598.9 *7*			C	
4710.9[&] *3*	(12^+)		H	
4777.42 *12*	5^+		A	J^{π}: log *ft*=5.1 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 3^- rules out 6 and 7.
4798.7[@] *3*	$11^{(-)}$	2.6[b] ps *5*	C H	
4866.0? *4*	(10,14)		C	
4949.64 *17*	5^+		A	J^{π}: log *ft*=5.3 from 6^+ ^{96}Rh isomer gives $(5,6,7)^+$; γ to 3^+ rules out 6 and 7.
5274.3? *4*	(9,13)		C	
5531.9[&] *3*	(13^+)		H	
5533.9? *5*	(11^-)		C H	
5541.47 *22*	$(5,6,7)^+$		A	J^{π}: log *ft*=4.96 from 6^+ ^{96}Rh isomer.
5680.69[#] *19*	14^+	2.43[b] ps *21*	C H	J^{π}: E2 γ to 12^+.
5750.2[@] *3*	$13^{(-)}$	2.1[b] ps *4*	C H	
5978.5[&] *4*	(14^+)		H	
5994.5? *4*	(9,13)		C	
6278.3 *3*	$14^{(-)}$		C H	
6441.61[#] *24*	16^+	≤7.4[b] ps	C H	J^{π}: E2 from 14^+.
6678.9 *5*	(14,18)		H	
6754.1[@] *4*	$15^{(-)}$		H	
6769.8 *5*	(14,18)		H	
6777.1 *4*	$16^{(-)}$		H	
7415.0 *5*	(17^+)		H	
7425.2 *5*	(16^+)		H	
7534.8 *5*	(17^+)		H	
7558.3 *5*	$17^{(-)}$		H	
7951.2[@] *5*	$17^{(-)}$	≤4.2[b] ps	H	
8187.6 *10*	(17^+)		H	
8205.7[#] *5*	18^+		C H	J^{π}: E2 γ to 16^+.
8236.0 *5*	$18^{(-)}$		H	
8499.6 *10*	(17^+)		H	
8644.1 *6*	(18^+)		H	
8736.2 *6*	(18^+)		H	
8968.8 *11*	(18^+)		H	
9101.0 *11*	(18^+)		H	
9249.1 *7*	(20^+)		H	
9250.3 *6*	(18^-)		H	
9391.4[@] *5*	(19^-)		H	
9586.4 *7*	(20^+)		H	
9665.3 *6*	(19^-)		H	
9713.4 *7*	(19^+)		H	
9852.2 *12*	(20^+)		H	
9892.3 *7*	(21^-)		H	
9992.4[@] *6*	(21^-)		H	
9997.4 *8*	(21^+)		H	
10592.8 *9*	(22^+)		H	

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Adopted Levels, Gammas (continued)

^{96}Ru Levels (continued)

E(level)	J^{π} †	XREF
10631.5 *8*	(22^+)	H
10720.4 *8*	(22^+)	H
11066.1 *12*	(22^+)	H
11360.1 *12*	(22^+)	H
11601.4@ *12*	(23^-)	H

† From $\sigma(\theta)$ and γ decay patterns, except as noted.
‡ From (p,p′γ), except where noted.
# Band(A): g.s. cascade.
@ Band(B): 5^- cascade.
& Band(C): (10^+) cascade.
a From ^{96}Ru(p,p′γ).
b From RDDS in ^{65}Cu(^{36}S,p4nγ).
c From ^{96}Ru(γ,γ').
d From DSAM in ^{95}Mo(^{3}He,2nγ).

Adopted Levels, Gammas (continued)

γ(^{96}Ru)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	δ	α	Comments
832.56	2^+	832.55 *5*	100	0.0	0^+	E2		0.001360 *19*	α(K)=0.001190 *17*; α(L)=0.0001395 *20*; α(M)=2.56×10^{-5} *4* α(O)=2.11×10^{-7} *3*; α(N+..)=4.33×10^{-6} B(E2)(W.u.)=18.4 *4* E_γ: weighted average of 832.52 *10* (^{96}Rh ε decay (9.90 min)), 832.51 *9* ((HI,xnγ)), 832.57 *5* (^{96}Ru(p,p′γ)), 831.6 *4* (^{65}Cu(^{36}S,p4nγ)), 832.6 *1* (^{95}Mo(^{3}He,2nγ)).
1518.05	4^+	685.47 *4*	100	832.56	2^+	E2		0.00222 *4*	α(K)=0.00194 *3*; α(L)=0.000231 *4*; α(M)=4.24×10^{-5} *6*; α(N)=6.82×10^{-6} *10*; α(O)=3.42×10^{-7} *5* α(N+..)=7.16×10^{-6} *10* B(E2)(W.u.)=20.7 *15* E_γ: weighted average of 685.47 *10* (^{96}Rh ε decay (9.90 min)), 685.34 *12* ((HI,xnγ)), 685.49 *5* (^{96}Ru(p,p′γ)), 685.1 *4* (^{65}Cu(^{36}S,p4nγ)), 685.5 *1* (^{95}Mo(^{3}He,2nγ)).
1931.07	2^+	1098.49 *5*	100 *4*	832.56	2^+	E2+M1	−1.1 *1*	0.000745 *11*	α(K)=0.000654 *10*; α(L)=7.46×10^{-5} *11*; α(M)=1.366×10^{-5} *20* α(O)=1.174×10^{-7} *18*; α(N+..)=2.33×10^{-6} B(E2)(W.u.)=18.4 *24*; B(M1)(W.u.)=0.019 *3* E_γ: weighted average of 1098.2 *2* (^{96}Rh ε decay (9.90 min)), 1098.51 *5* (^{96}Ru(p,p′γ)), 1098.5 *1* (^{95}Mo(^{3}He,2nγ)). Mult.,δ: from ^{95}Mo(^{3}He,2nγ).
		1930.9 *2*	6.0 *10*	0.0	0^+				B(E2)(W.u.)=35 *6*; B(M1)(W.u.)=0.0016 *7* E_γ,I_γ: from ^{95}Mo(^{3}He,2nγ).
2148.78	0^+	1316.22 *6*	100	832.56	2^+	E2		0.000517 *8*	α(K)=0.000429 *6*; α(L)=4.88×10^{-5} *7*; α(M)=8.93×10^{-6} *13*; α(N)=1.445×10^{-6} *21* α(O)=7.65×10^{-8} *11*; α(N+..)=3.05×10^{-5} *5* B(E2)(W.u.)=12 *+5−12* E_γ: weighted average of 1316.23 *7* (^{96}Ru(p,p′γ)), 1316.2 *1* (^{95}Mo(^{3}He,2nγ)).
2149.74	6^+	631.70 *4*	100	1518.05	4^+	E2		0.00276 *4*	α(K)=0.00241 *4*; α(L)=0.000289 *4*; α(M)=5.31×10^{-5} *8*; α(N)=8.52×10^{-6} *12*; α(O)=4.24×10^{-7} *6* α(N+..)=8.95×10^{-6} *13* B(E2)(W.u.)=14 *5* E_γ: weighted average of 631.73 *10* (^{96}Rh ε decay (9.90 min)), 631.64 *10* ((HI,xnγ)), 631.71 *7* (^{96}Ru(p,p′γ)), 632.1 *4* (^{65}Cu(^{36}S,p4nγ)), 631.7 *1* (^{95}Mo(^{3}He,2nγ)).
2283.88	2^+	1451.31 *12*	100 *3*	832.56	2^+	(M1+E2)	+0.12 *3*	0.000489 *7*	α(K)=0.000381 *6*; α(L)=4.28×10^{-5} *6*; α(M)=7.83×10^{-6} *11*; α(N)=1.272×10^{-6} *18* α(O)=6.87×10^{-8} *10*; α(N+..)=5.78×10^{-5} *9* B(E2)(W.u.)=(3.0×10^2 *18*); B(M1)(W.u.)=(44 *15*)

$^{96}_{44}Ru_{52}$-5

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	δ	α	Comments
									E_γ: weighted average of 1451.2 *2* (^{96}Rh ε decay (9.90 min)), 1451.9 *5* (^{96}Rh ε decay (1.51 min)), 1451.6 *3* (^{96}Ru(p,p′γ)), 1451.2 *2* (^{95}Mo(^{3}He,2nγ)).
									I_γ: from ^{95}Mo(^{3}He,2nγ).
2283.88	2^+	2283.78 *22*	7.5 *10*	0.0	0^+	E2		0.000612 *9*	α(K)=0.0001500 *21*; α(L)=1.675×10^{-5} *24*; α(M)=3.06×10^{-6} *5* α(O)=2.68×10^{-8} *4*; α(N+..)=0.000442 B(E2)(W.u.)=1.6×10^2 *6*
									E_γ: weighted average of 2283.6 *4* (^{96}Rh ε decay (9.90 min)), 2283.9 *5* (^{96}Rh ε decay (1.51 min)), 2284.2 *5* (^{96}Ru(p,p′γ)), 2283.6 *4* (^{95}Mo(^{3}He,2nγ)).
									I_γ: from ^{95}Mo(^{3}He,2nγ), other: 9 *5* (^{96}Rh ε decay (1.51 min)), 7.5 *22* (^{96}Ru(p,p′γ)).
2462.16	4	944.18 *8*	100	1518.05	4^+	D+Q			E_γ: weighted average of 944.07 *10* (^{96}Rh ε decay (9.90 min)), 944.33 *9* (^{96}Ru(p,p′γ)), 944.1 *1* (^{95}Mo(^{3}He,2nγ)).
2524.85	3^+,4^+	593.95 *15*	7.1 *24*	1931.07	2^+				E_γ: weighted average of 594.1 *2* (^{96}Rh ε decay (9.90 min)), 593.8 *2* (^{95}Mo(^{3}He,2nγ)).
									I_γ: from ^{96}Ru(p,p′γ).
		1006.67 *19*	10.6 *24*	1518.05	4^+				E_γ: weighted average of 1006.5 *5* (^{96}Rh ε decay (9.90 min)), 1006.7 *2* (^{96}Ru(p,p′γ)).
									I_γ: from ^{96}Ru(p,p′γ).
		1692.25 *14*	100.0 *20*	832.56	2^+				E_γ: weighted average of 1692.3 *2* (^{96}Rh ε decay (9.90 min)), 1692.2 *2* (^{96}Ru(p,p′γ)).
									I_γ: from ^{96}Ru(p,p′γ).
2528.47	1^+,2^+	1695.9 *1*	100 *4*	832.56	2^+	(M1+E2)		0.000459 *7*	α(K)=0.000269 *10*; α(L)=3.02×10^{-5} *11*; α(M)=5.52×10^{-6} *20*; α(N)=9.0×10^{-7} *4* α(O)=4.82×10^{-8} *21*; α(N+..)=0.000154 *1*
		2528.4 *3*	30 *4*	0.0	0^+				E_γ,I_γ: observed only in (p,p′γ). E_γ,I_γ: from in (p,p′γ).
2576.02	(2^+)	1743.39 *10*	100 *4*	832.56	2^+	D+Q			E_γ: weighted average of 1743.1 *5* (^{96}Rh ε decay (9.90 min)), 1743.4 *1* (^{96}Ru(p,p′γ)).
									I_γ: from (p,p′γ).
		2576.13 *17*	43 *4*	0.0	0^+				E_γ: weighted average of 2576.1 *2* (^{96}Rh ε decay (1.51 min)), 2576.2 *3* (^{96}Ru(p,p′γ)).
									I_γ: from (p,p′γ).
2579.02	1^+,2^+,3^+	647.9 *2*	59 *6*	1931.07	2^+	E2+M1	+2.0 +*6*–*5*	0.00257 *4*	α(K)=0.00225 *4*; α(L)=0.000267 *4*; α(M)=4.89×10^{-5} *8*; α(N)=7.87×10^{-6} *12*; α(O)=3.98×10^{-7} *6* α(N+..)=8.27×10^{-6} *13*

$^{96}_{44}Ru_{52}$-6

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	δ	α	Comments
2579.02	1$^+$,2$^+$,3$^+$	1746.5[a] *2*	100 *8*	832.56	2$^+$				
2588.41	5$^-$	1070.36 *5*	100	1518.05	4$^+$	E1+M2	−0.01 *4*	0.000333 *6*	α(K)=0.000293 *6*; α(L)=3.28×10^{-5} *6*; α(M)=5.99×10^{-6} *11*; α(N)=9.70×10^{-7} *18* α(O)=5.18×10^{-8} *10*; α(N+..)=1.022×10^{-6} *19* B(E1)(W.u.)<9.4×10^{-5}; B(M2)(W.u.)<0.34 E_γ: weighted average of 1070.35 *10* (^{96}Rh ε decay (9.90 min)), 1070.26 *12* ((HI,xnγ)), 1070.36 *8* (^{96}Ru(p,p′γ)), 1071.1 *4* (^{65}Cu(^{36}S,p4nγ)), 1070.4 *1* (^{95}Mo(^{3}He,2nγ)).
2649.99	3$^{(-)}$	366.3[#] *4*	5.5[@] *5*	2283.88	2$^+$				
		718.5[#] *2*	4.0[@] *10*	1931.07	2$^+$				
		1131.9[#] *2*	20.0[@] *20*	1518.05	4$^+$				
		1817.5[#] *1*	100[@] *10*	832.56	2$^+$				
2699.80	4$^+$,5	237.7[#] *2*		2462.16	4				
		1181.6[#a] *3*		1518.05	4$^+$				
2739.78	(2$^+$)	455.9[#] *2*	3.50[@] *20*	2283.88	2$^+$				
		591.1[#] *2*	0.25[@] *5*	2148.78	0$^+$				
		808.6[#] *2*	100[@] *8*	1931.07	2$^+$				
		1907.5[#] *3*	40.0[@] *20*	832.56	2$^+$				
2760.20	(4$^+$,5)	1242.13 *7*	100	1518.05	4$^+$				E_γ: weighted average of 1242.14 *10* (^{96}Rh ε decay (9.90 min)), 1242.4 *3* (^{96}Ru(p,p′γ)), 1242.1 *1* (^{95}Mo(^{3}He,2nγ)).
2793.89	(5,6)	644.18 *7*	100[@] *3*	2149.74	6$^+$				E_γ: weighted average of 644.16 *10* (^{96}Rh ε decay (9.90 min)), 644.2 *1* (^{95}Mo(^{3}He,2nγ)).
		1275.78 *7*	67.0[@] *20*	1518.05	4$^+$				E_γ: weighted average of 1275.76 *10* (^{96}Rh ε decay (9.90 min)), 1275.8 *1* (^{95}Mo(^{3}He,2nγ)).
2851.12	(2$^+$,3)	567.0[#] *2*	8.0[@] *20*	2283.88	2$^+$				
		920.6[#] *5*	9[@] *3*	1931.07	2$^+$				
		1332.8[#] *3*	13.3[@] *5*	1518.05	4$^+$				
		2018.8[#] *2*	100[@] *15*	832.56	2$^+$				
2891.64	6$^+$	741.88 *7*	100	2149.74	6$^+$	D+Q			E_γ: weighted average of 741.87 *10* (^{96}Rh ε decay (9.90 min)), 741.8 *3* ((HI,xnγ)), 741.9 *1* (^{95}Mo(^{3}He,2nγ)).
2897.61	3$^{(+)}$	435.3[#] *3*	3.0[@] *10*	2462.16	4				
		613.8[#] *3*	20.0[@] *20*	2283.88	2$^+$				
		966.8[#] *2*	100[@] *12*	1931.07	2$^+$				
		1379.5[#] *3*	63[@] *12*	1518.05	4$^+$				
		2064.7[#] *3*	20.0[@] *20*	832.56	2$^+$				

$^{96}_{44}Ru_{52}$-7

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	α	Comments
2950.39	8^+	800.68 *6*	100	2149.74	6^+	E2	0.001496 *21*	α(K)=0.001309 *19*; α(L)=0.0001539 *22*; α(M)=2.82×10^{-5} *4* α(O)=2.32×10^{-7} *4*; α(N+..)=4.77×10^{-6} B(E2)(W.u.)=6.0 *22* E_γ: weighted average of 800.70 *10* (^{96}Rh ε decay (9.90 min)), 800.55 *13* ((HI,xnγ)), 801.2 *4* (^{65}Cu(^{36}S,p4nγ)), 800.7 *1* (^{95}Mo(^{3}He,2nγ)).
2987.8	(0,4)	2155.2 *3*	100	832.56	2^+			
2996.30	2^+,3^+,4^+	471.4[#] *5*	15 *5*	2524.85	3^+,4^+			I_γ: weighted average of 15 *6* (^{96}Rh ε decay (1.51 min)) and 15 *5* (^{95}Mo(^{3}He,2nγ)).
		533.7[#] *3*	3.1 *5*	2462.16	4			I_γ: weighted average of 3.08 (^{96}Rh ε decay (1.51 min)) and 3.1 *5* (^{95}Mo(^{3}He,2nγ)).
		1479.0[#] *5*	17.5 *22*	1518.05	4^+			I_γ: weighted average of 17 *6* (^{96}Rh ε decay (1.51 min)) and 17.6 *24* (^{96}Ru(p,p′γ)).
		2163.8[#] *2*	100.0 *23*	832.56	2^+			I_γ: weighted average of 100 *11* (^{96}Rh ε decay (1.51 min)) and 100.0 *24* (^{96}Ru(p,p′γ)).
3060.46	(1,4)	776.8[#] *3*	25[@] *7*	2283.88	2^+			
		1129.1[#] *2*	100[@] *7*	1931.07	2^+			
		2228.3[#] *3*	20[@] *7*	832.56	2^+			
3072.21	(3^-,4)	483.8 *2*	100	2588.41	5^-			
3076.28	3^-	425.7 *4*	18.0[@] *20*	2649.99	$3^{(-)}$			E_γ: weighted average of 425.2 *10* (^{96}Ru(p,p′γ)), 425.8 *5* (^{95}Mo(^{3}He,2nγ)).
		487.0[#] *5*	32[@] *9*	2588.41	5^-			
		614.9[#] *2*	8.0[@] *10*	2462.16	4			
		1144.9[#] *2*	55[@] *3*	1931.07	2^+			
		1557.4[#] *3*	1.0×10^2[@] *4*	1518.05	4^+			
		2244.0[#] *5*	2.2[@] *5*	832.56	2^+			
3077.1	(5,6)	1559.0 *5*	100	1518.05	4^+			E_γ: from ^{96}Rh ε decay (1.51 min).
3090.20	2^+	2257.6[#] *2*	100[@] *6*	832.56	2^+			
		3090.2[#] *5*	6.4[@] *21*	0.0	0^+			
3154.24	$1^{(+)}$	1224.1 *6*	28 *10*	1931.07	2^+			
		2321.5 *3*	6.0 *10*	832.56	2^+			
		3154.1 *3*	100 *8*	0.0	0^+	D		
3166.76	(5,6)	1648.7[#] *2*	100	1518.05	4^+			
3172.4	(9^+)	222.7 *4*	100	2950.39	8^+	D		
3210.13	(2,6)	1692.0[#] *3*	100[@] *15*	1518.05	4^+			
		2377.6[#] *3*	64[@] *25*	832.56	2^+			

$^{96}_{44}Ru_{52}$-8

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	α	Comments
3232.2	(0,4)	1301.1 *5*	100	1931.07	2^+			
3261.03	2^+	1330.5[#] *10*	<12.0	1931.07	2^+			I_γ: from ^{96}Rh ε decay (1.51 min).
		1743.1[#] *5*	100[@] *15*	1518.05	4^+			
		2428.3[#] *2*	32[@] *7*	832.56	2^+			
		3261.5[#] *5*	9.0[@] *20*	0.0	0^+			
3281.3	(3,7)	692.9 *3*	100	2588.41	5^-			
3282.4	1	3282.3 *3*	100	0.0	0^+	D		
3291.46	7^-	497.4[#] *4*		2793.89	(5,6)			
		703.04 *16*	100	2588.41	5^-	E2	0.00208 *3*	α(K)=0.00182 *3*; α(L)=0.000216 *3*; α(M)=3.96×10^{-5} *6*; α(N)=6.37×10^{-6} *9*; α(O)=3.21×10^{-7} *5* α(N+..)=6.69×10^{-6} *10* B(E2)(W.u.)=17.7 *23* E_γ: weighted average of 702.95 *25* ((HI,xnγ)), 703.1 *2* (^{95}Mo(^{3}He,2nγ)). Other 703.9 *4* ^{65}Cu(^{36}S,p4nγ).
3291.54	4^+	400.0[#] *4*	36[@] *8*	2891.64	6^+			
		531.2[#] *3*	8.0[@] *20*	2760.20	$(4^+,5)$			
		766.8[#] *5*	56[@] *11*	2524.85	$3^+,4^+$			
		1773.4[#] *5*	44[@] *14*	1518.05	4^+			
		2459.1[#] *5*	100[@] *14*	832.56	2^+			
3306.78	5	415.2 *5*	32 *4*	2891.64	6^+			
		657.5[a] *5*	12 *6*	2649.99	$3^{(-)}$			γ previously placed in level 2588.51 (1983Wa06) but not seen in coincidence, inconsistent with J^π of level. Placed here by evaluator.
		1157.0 *2*	≈20	2149.74	6^+			
		1788.6 *2*	100 *4*	1518.05	4^+			
3362.54	(4,8)	1212.8 *2*	100	2149.74	6^+			
3377.55	5^+	300.7 *5*	3.1 *8*	3076.28	3^-			
		485.9 *5*	6.4 *9*	2891.64	6^+			
		852.3 *5*	6.2 *9*	2524.85	$3^+,4^+$			
		915.2 *2*	13.2 *8*	2462.16	4			
		1227.85 *10*	100 *6*	2149.74	6^+			
		1859.7 *2*	20.6 *8*	1518.05	4^+			
3380.51	$(6,7)^+$	430.2 *1*	31 *3*	2950.39	8^+			
		488.9 *5*	5.4 *14*	2891.64	6^+			
		586.62 *20*	21.3 *7*	2793.89	(5,6)			
		1230.66 *10*	100 *7*	2149.74	6^+			
3447.9	1	3447.8 *10*	100	0.0	0^+	D		
3479.6	1	3479.5 *3*	100	0.0	0^+	D		
3544.52	(6,7)	237.9 *2*	33 *5*	3306.78	5			

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	α	Comments
3544.52	(6,7)	594.1 *2*	100 *11*	2950.39	8^+			
		1394.7 *2*	47 *9*	2149.74	6^+			
3706.50	$(5,6)^+$	400.0 *5*	6.8 *16*	3306.78	5			
		415.2 *5*	32 *4*	3291.54	4^+			
		912.2 *5*	13.0 *10*	2793.89	(5,6)			
		1556.72 *20*	100 *5*	2149.74	6^+			
3742.87	(5,6)	380.4 *5*	46 *14*	3362.54	(4,8)			
		1593.1 *2*	100 *11*	2149.74	6^+			
		2224.8 *2*	66 *9*	1518.05	4^+			
3755.15	$(5,6,7)^+$	863.5 *5*	4.9 *15*	2891.64	6^+			
		1605.4 *2*	100 *3*	2149.74	6^+			
3805.69	(5,6,7)	1011.4 *5*	53 *11*	2793.89	(5,6)			
		1656.0 *2*	100 *11*	2149.74	6^+			
3817.22	10^+	866.71 *10*	100	2950.39	8^+	E2	0.001234 *18*	α(K)=0.001081 *16*; α(L)=0.0001262 *18*; α(M)=2.31×10^{-5} *4* α(O)=1.92×10^{-7} *3*; α(N+..)=3.92×10^{-6} B(E2)(W.u.)=12.7 *15* E_γ: from ((HI,xnγ)), other: 867.3 *4* (^{65}Cu(^{36}S,p4nγ)).
3887.23	$(5,6,7)^+$	995.5 *2*	17.7 *9*	2891.64	6^+			
		1737.45 *10*	100 *5*	2149.74	6^+			
3928.6	(10^+)	112.1 *4*	100	3817.22	10^+			
3951.08	9^-	659.61[‡] *11*	100[†]	3291.46	7^-	E2	0.00246 *4*	α(K)=0.00215 *3*; α(L)=0.000257 *4*; α(M)=4.71×10^{-5} *7*; α(N)=7.57×10^{-6} *11*; α(O)=3.78×10^{-7} *6* α(N+..)=7.94×10^{-6} *12* B(E2)(W.u.)=20.2 *20*
		779.4[‡] *4*	1.7[†] *10*	3172.4	(9^+)			
		1002.1[‡] *4*	1.6[†] *5*	2950.39	8^+			
4057.52	(5,6)	1907.8 *2*	83 *9*	2149.74	6^+			
		2539.2 *5*	100 *7*	1518.05	4^+			
4080.28	$(5,6,7)^+$	699.5 *5*	16 *5*	3380.51	$(6,7)^+$			
		1188.6 *2*	100 *9*	2891.64	6^+			
		1286.4 *2*	43 *9*	2793.89	(5,6)			
		2149.6 *5*	11 *4*	1931.07	2^+			
4112.99	$(6,7)^+$	1162.9 *5*	27 *4*	2950.39	8^+			
		1525.2 *5*	5.5 *16*	2588.41	5^-			
		1963.19 *10*	100 *5*	2149.74	6^+			
4148.2	(5,6,7)	1998.4 *5*	100	2149.74	6^+			
4210.8	(5,6,7)	1450.5 *5*	1.0×10^2 *4*	2760.20	$(4^+,5)$			
		2061.2 *5*	1.0×10^2 *3*	2149.74	6^+			
4262.1	(8,12)	444.9 *4*	100	3817.22	10^+			
4265.0	(11^+)	337.2[‡] *4*	100	3928.6	(10^+)			

$^{96}_{44}Ru_{52}$-10

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	α	Comments
4418.27	12^+	600.86 *10*	100	3817.22	10^+	E2	0.00317 *5*	α(K)=0.00276 *4*; α(L)=0.000333 *5*; α(M)=6.12×10^{-5} *9*; α(N)=9.81×10^{-6} *14*; α(O)=4.85×10^{-7} *7* α(N+..)=1.029×10^{-5} *15* B(E2)(W.u.)=13.1 *19* Measured Q, calculated B(M2)(W.u.) exceeds RUL excluding M2, hence E2. E_γ: from (HI,xnγ), other: 601.3 *4* (^{65}Cu(^{36}S,p4nγ)).
4521.08	$(5,6)^+$	1996.16 *20*	100 *5*	2524.85	$3^+,4^+$			
		2059.2 *5*	30.4 *22*	2462.16	4			
4534.03	10^-	582.99 *14*	100	3951.08	9^-	D		E_γ: from (HI,xnγ), other: 584.1 *4* (^{65}Cu(^{36}S,p4nγ)).
4560.93	$(5,6)^+$	1016.8 *5*	38 *11*	3544.52	(6,7)			
		1269.1 *5*	66 *9*	3291.54	4^+			
		1800.7 *2*	100 *11*	2760.20	$(4^+,5)$			
4592.5	(5,6,7)	1048.0 *5*	100	3544.52	(6,7)			
4598.9		336.8 *5*	100	4262.1	(8,12)			
4710.9	(12^+)	292.7[‡] *4*	71 *21*	4418.27	12^+			
		446.7[‡] *4*	1.0×10^2 *3*	4265.0	(11^+)			
		893.9[‡] *4*	8.×10^1 *3*	3817.22	10^+			
4777.42	5^+	890.0 *2*	88 *7*	3887.23	$(5,6,7)^+$			
		1400.5 *5*	26 *7*	3377.55	5^+			
		1470.2 *5*	100 *21*	3306.78	5			
		1701.1 *2*	60 *7*	3076.28	3^-			
		1885.7 *2*	84 *9*	2891.64	6^+			
		2252.7 *2*	58 *9*	2524.85	$3^+,4^+$			
		2628.0 *5*	26 *7*	2149.74	6^+			
4798.7	$11^{(-)}$	265.1[‡] *4*	2.0[†] *6*	4534.03	10^-	D		
		849.2 *4*	100	3951.08	9^-			E_γ: weighted average of 847.38 *25* ((HI,xnγ)), 849.2 *4* (^{65}Cu(^{36}S,p4nγ)).
4866.0?	(10,14)	447.7 *4*	100	4418.27	12^+			
4949.64	5^+	1642.7 *2*	100 *11*	3306.78	5			
		2052.4 *5*	33 *14*	2897.61	$3^{(+)}$			
		2361.5 *5*	44 *8*	2588.41	5^-			
		2424.9 *5*	33 *8*	2524.85	$3^+,4^+$			
		2800.0 *5*	28 *8*	2149.74	6^+			
		3431.5 *5*	56 *14*	1518.05	4^+			
5274.3?	(9,13)	475.52 *35*	100	4798.7	$11^{(-)}$			
5531.9	(13^+)	822.0[‡] *4*	100	4710.9	(12^+)	D		
5533.9?	(11^-)	735.2[‡] *4*	44.2[†]	4798.7	$11^{(-)}$			
		999.9 *24*	100	4534.03	10^-	Q		E_γ: weighted average of 999.7 *3*((HI,xnγ)), 1000.3 *4* (^{65}Cu(^{36}S,p4nγ)).

$^{96}_{44}Ru_{52}$-11

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	α	Comments
5541.47	(5,6,7)$^+$	2163.9 *2*	100	3377.55	5$^+$			
5680.69	14$^+$	150.2[‡] *4*	6.0[†] *16*	5531.9	(13$^+$)			
		1262.18 *11*	100	4418.27	12$^+$	E2	0.000550 *8*	α(K)=0.000467 *7*; α(L)=5.33×10^{-5} *8*; α(M)=9.76×10^{-6} *14*; α(N)=1.579×10^{-6} *23* α(O)=8.34×10^{-8} *12*; α(N+..)=1.94×10^{-5} *3* B(E2)(W.u.)=2.63 *23* E_γ: weighted average of 1262.17 *11* ((HI,xnγ)), 1262.3 *4* (^{65}Cu(^{36}S,p4nγ)).
5750.2	13$^{(-)}$	217.7[‡] *4*	17[†] *3*	5531.9	(13$^+$)	D		B(M1)(W.u.)=0.14 *4*
		952.6 *3*	100	4798.7	11$^{(-)}$	E2	0.000988 *14*	α(K)=0.000866 *13*; α(L)=0.0001005 *14*; α(M)=1.84×10^{-5} *3* α(O)=1.540×10^{-7} *22*; α(N+..)=3.12×10^{-6} B(E2)(W.u.)=11.2 *22* E_γ: weighted average of 952.3 *4* ((HI,xnγ)), 952.9 *4* (^{65}Cu(^{36}S,p4nγ)).
5978.5	(14$^+$)	447.0[‡] *4*	100	5531.9	(13$^+$)			
5994.5?	(9,13)	1195.8 *3*	100	4798.7	11$^{(-)}$			
6278.3	14$^{(-)}$	528.8[‡] *4*	100[†]	5750.2	13$^{(-)}$	D		
		597.2[‡] *4*	33[†] *5*	5680.69	14$^+$	Q		
		746.5[‡] *4*	33[†]	5531.9	(13$^+$)	Q		
6441.61	16$^+$	760.74 *16*	100	5680.69	14$^+$	E2	0.001700 *24*	α(K)=0.001487 *21*; α(L)=0.0001755 *25*; α(M)=3.22×10^{-5} *5* α(O)=2.63×10^{-7} *4*; α(N+..)=5.44×10^{-6} B(E2)(W.u.)>11 E_γ: weighted average of 760.68 *17* ((HI,xnγ)), 761.1 *4* (^{65}Cu(^{36}S,p4nγ)).
6678.9	(14,18)	237.3[‡] *4*	100	6441.61	16$^+$			
6754.1	15$^{(-)}$	475.6[‡] *4*	65	6278.3	14$^{(-)}$			
		1004.4[‡] *4*	100	5750.2	13$^{(-)}$	E2	0.000875 *13*	α(K)=0.000768 *11*; α(L)=8.87×10^{-5} *13*; α(M)=1.625×10^{-5} *23* α(O)=1.366×10^{-7} *20*; α(N+..)=2.76×10^{-6}
6769.8	(14,18)	328.2[‡] *4*	100	6441.61	16$^+$			
6777.1	16$^{(-)}$	499.4[‡] *4*	100	6278.3	14$^{(-)}$	Q		
7415.0	(17$^+$)	973.4 *4*	100	6441.61	16$^+$			
7425.2	(16$^+$)	1447.0[‡] *4*	1.0×10^2 *5*	5978.5	(14$^+$)			
		1744[‡] *1*	1.0×10^2 *4*	5680.69	14$^+$			
7534.8	(17$^+$)	1093.2[‡] *4*	100	6441.61	16$^+$			
7558.3	17$^{(-)}$	781.4[‡] *4*	100	6777.1	16$^{(-)}$			
7951.2	17$^{(-)}$	1197.4[‡] *4*	100	6754.1	15$^{(-)}$	E2	0.000602 *9*	α(K)=0.000522 *8*; α(L)=5.98×10^{-5} *9*; α(M)=1.094×10^{-5} *16*;

$^{96}_{44}Ru_{52}$-12

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]	α	Comments
								α(O)=9.31×10^{-8} *13* α(N+..)=9.03×10^{-6} *14* B(E2)(W.u.)>2.1
8187.6	(17$^+$)	1746[‡] *1*	100	6441.61	16$^+$			
8205.7	18$^+$	780.8[‡] *4*	29[†] *14*	7425.2	(16$^+$)			
		1763.1 *8*	100[†] *23*	6441.61	16$^+$	E2	0.000467 *7*	α(K)=0.000241 *4*; α(L)=2.71×10^{-5} *4*; α(M)=4.96×10^{-6} *7*; α(N)=8.03×10^{-7} *12* α(O)=4.30×10^{-8} *6*; α(N+..)=0.000194 *3* E_γ: weighted average of 1765 *1*, ^{65}Cu(^{36}S,p4nγ), and 1762.8 *4*, (HI,xnγ).
8236.0	18$^{(-)}$	677.9[‡] *4*	100	7558.3	17$^{(-)}$			
		1459.3[‡] *4*	6 *4*	6777.1	16$^{(-)}$			
8499.6	(17$^+$)	2058[‡] *1*	100	6441.61	16$^+$			
8644.1	(18$^+$)	1229.1[‡] *4*	100	7415.0	(17$^+$)			
8736.2	(18$^+$)	501.0[‡] *4*	1.0×10^2 *5*	8236.0	18$^{(-)}$			
		2289[‡] *1*	100 *20*	6441.61	16$^+$			
8968.8	(18$^+$)	781.2[‡] *4*	100	8187.6	(17$^+$)			
9101.0	(18$^+$)	601.4[‡] *4*	100	8499.6	(17$^+$)	D		
9249.1	(20$^+$)	1043.3[‡] *4*	100	8205.7	18$^+$	Q		
9250.3	(18$^-$)	1299.1[‡] *4*	100	7951.2	17$^{(-)}$			
9391.4	(19$^-$)	1155.0[‡] *4*	100	8236.0	18$^{(-)}$			
		1440.4[‡] *4*	50 *10*	7951.2	17$^{(-)}$	E2	0.000468 *7*	α(K)=0.000357 *5*; α(L)=4.05×10^{-5} *6*; α(M)=7.40×10^{-6} *11*; α(N)=1.199×10^{-6} *17* α(O)=6.37×10^{-8} *9*; α(N+..)=6.37×10^{-5} *9*
9586.4	(20$^+$)	850.2[‡] *4*	100	8736.2	(18$^+$)	Q		
9665.3	(19$^-$)	1429.2[‡] *4*	100	8236.0	18$^{(-)}$	D		
9713.4	(19$^+$)	977.2[‡] *4*	100	8736.2	(18$^+$)			
9852.2	(20$^+$)	751.2[‡] *4*	100	9101.0	(18$^+$)			
9892.3	(21$^-$)	227.0[‡] *4*	100	9665.3	(19$^-$)			
9992.4	(21$^-$)	601.0[‡] *4*	100	9391.4	(19$^-$)	Q		
9997.4	(21$^+$)	748.3[‡] *4*	100	9249.1	(20$^+$)	D		
10592.8	(22$^+$)	595.4[‡] *4*	100	9997.4	(21$^+$)			
10631.5	(22$^+$)	1382.4[‡] *4*	100	9249.1	(20$^+$)			
10720.4	(22$^+$)	1134.0[‡] *4*	100	9586.4	(20$^+$)	Q		
11066.1	(22$^+$)	1817[‡] *1*	100	9249.1	(20$^+$)			

$^{96}_{44}Ru_{52}$-13

Adopted Levels, Gammas (continued)

γ(^{96}Ru) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[&]
11360.1	(22$^+$)	2111[‡] *1*	100	9249.1	(20$^+$)	
11601.4	(23$^-$)	1609[‡] *1*	100	9992.4	(21$^-$)	Q

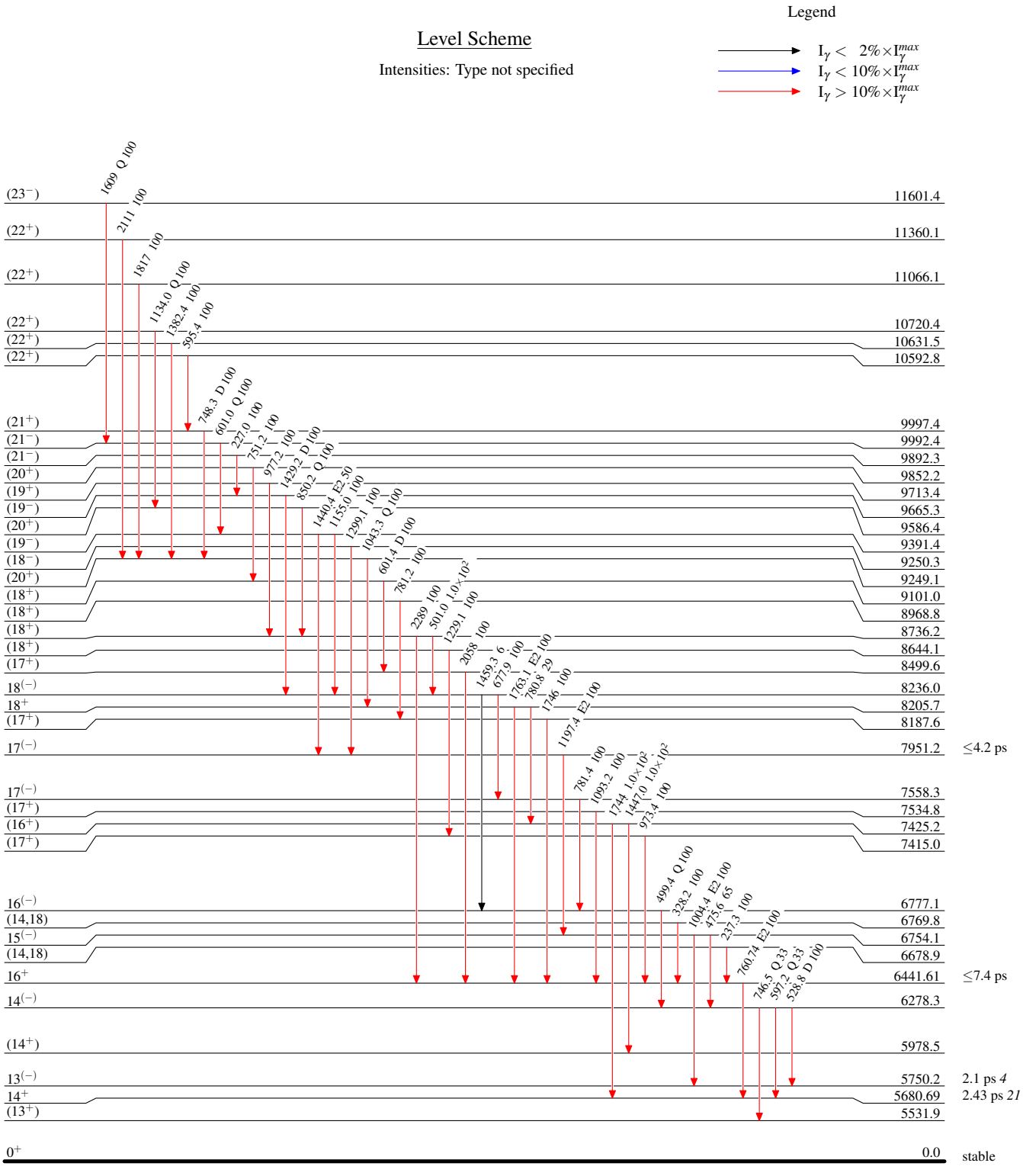
† From ^{65}Cu(^{36}S,p4nγ).
‡ From ^{65}Cu(^{36}S,p4nγ).
# From ^{95}Mo(^{3}He,2nγ).
@ From ^{95}Mo(^{3}He,2nγ).
& From ^{65}Cu(^{36}S,p4nγ), unless otherwise noted.
a Placement of transition in the level scheme is uncertain.

$^{96}_{44}Ru_{52}$-14

Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified

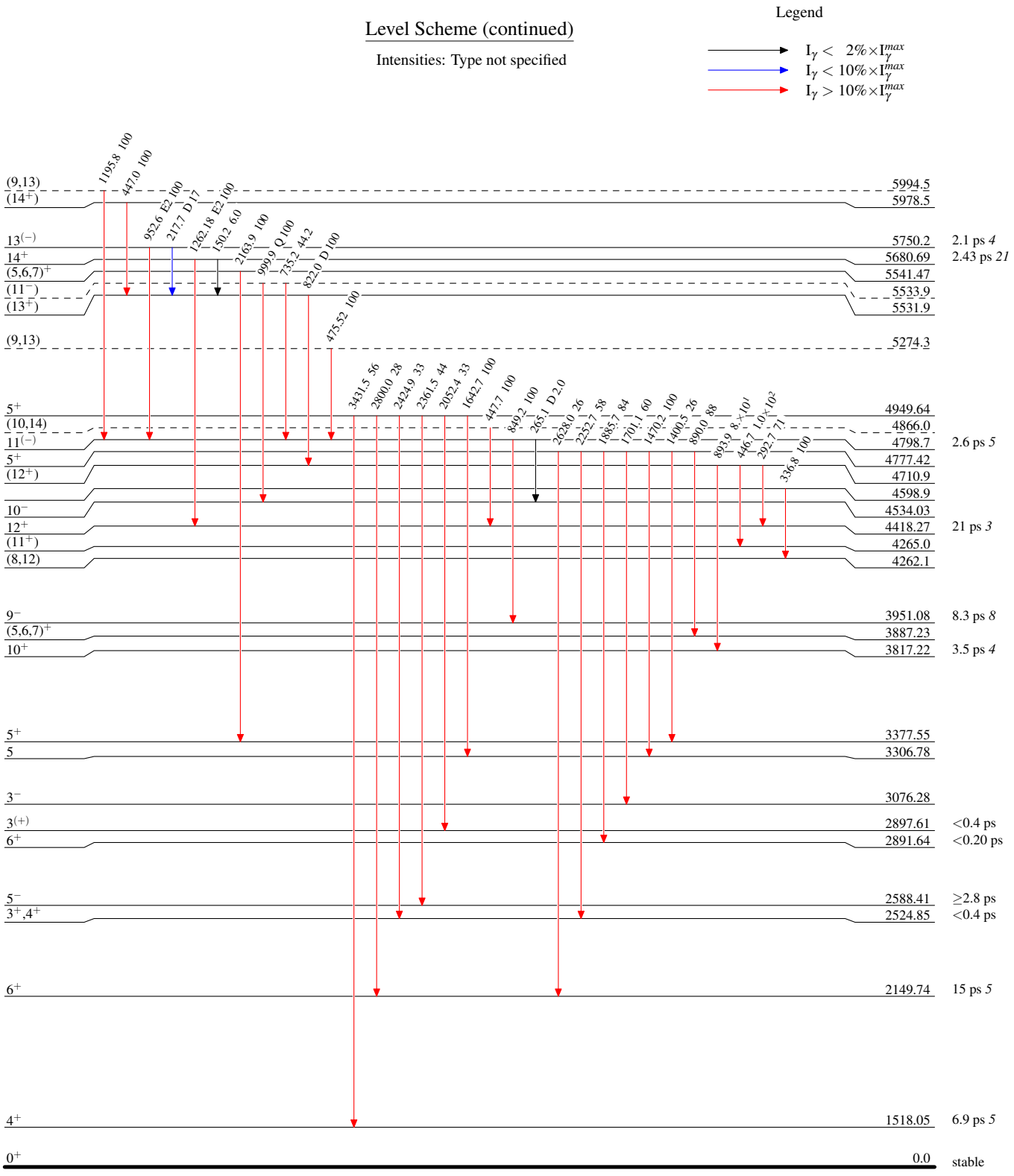


$^{96}_{44}Ru_{52}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

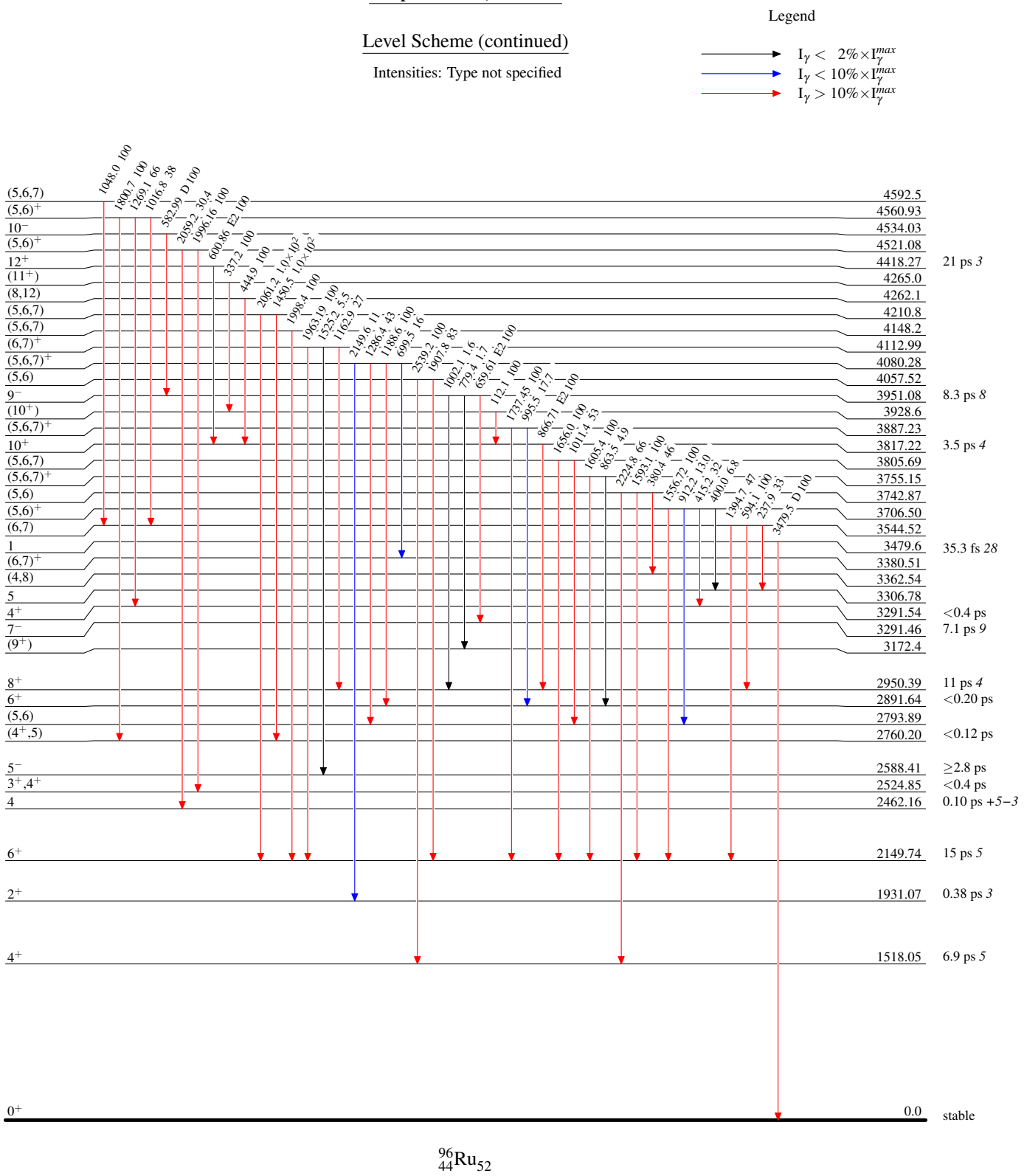


$^{96}_{44}Ru_{52}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

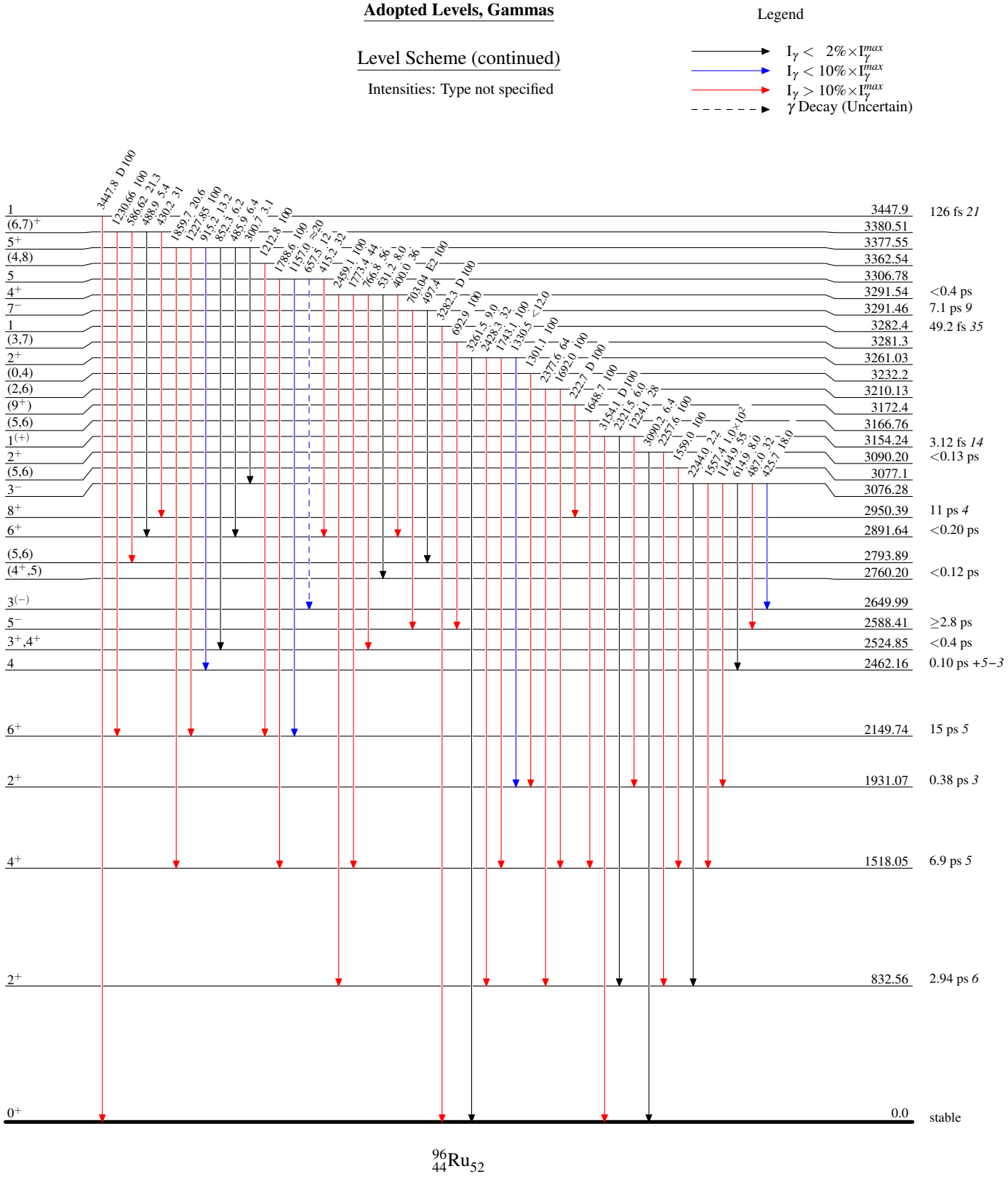


$^{96}_{44}Ru_{52}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

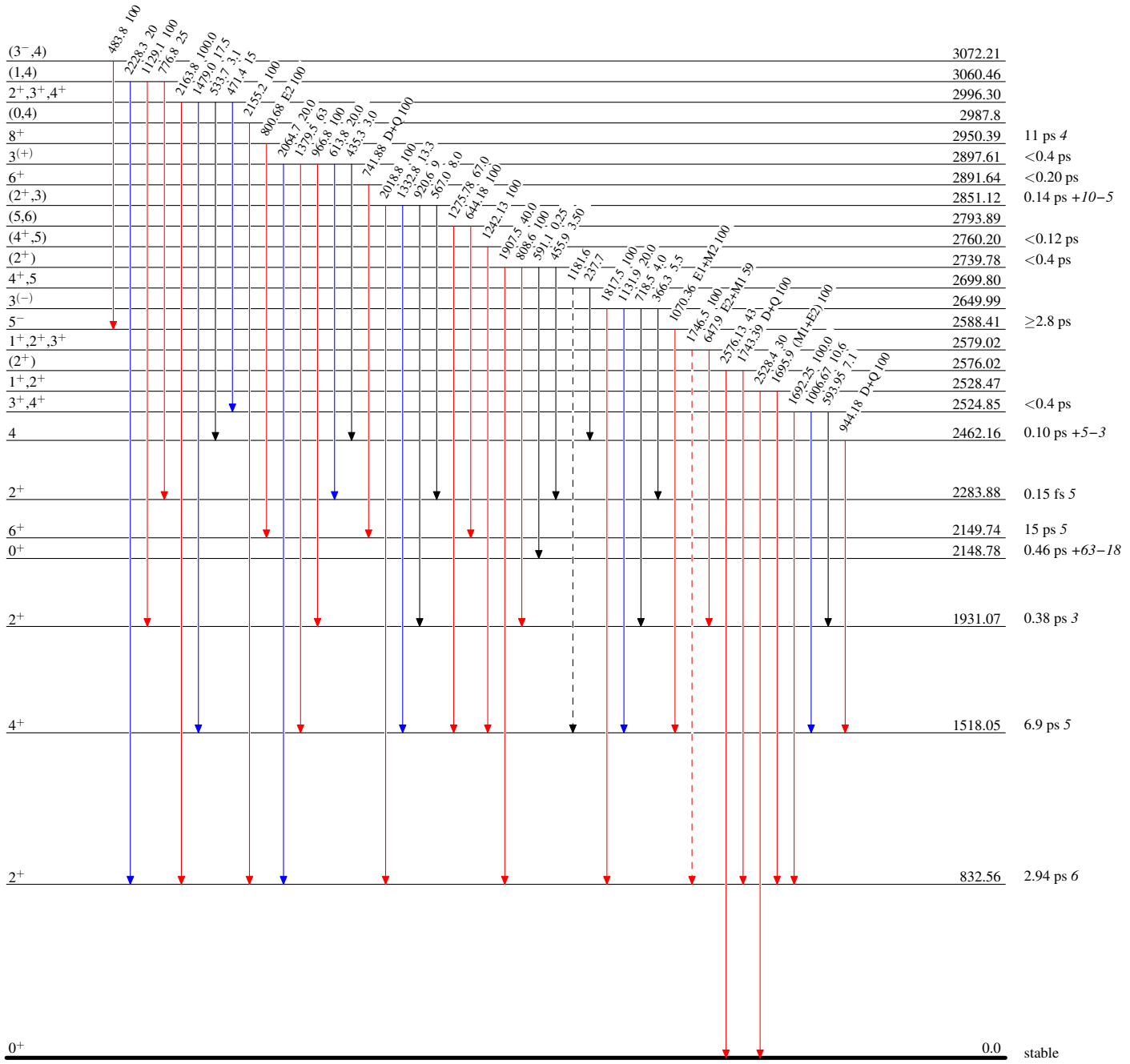


Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

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

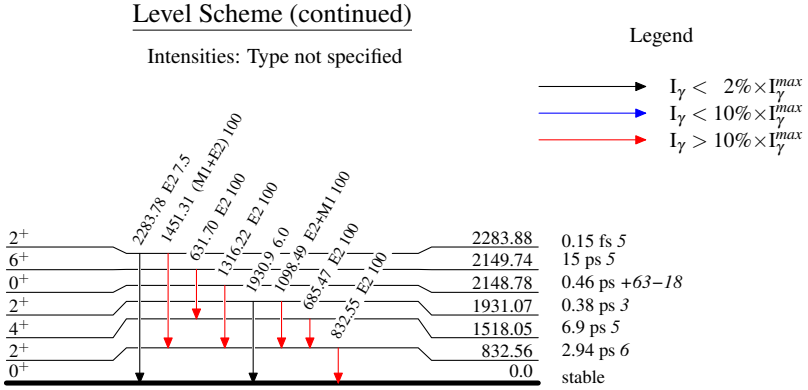


$^{96}_{44}Ru_{52}$

Adopted Levels, Gammas

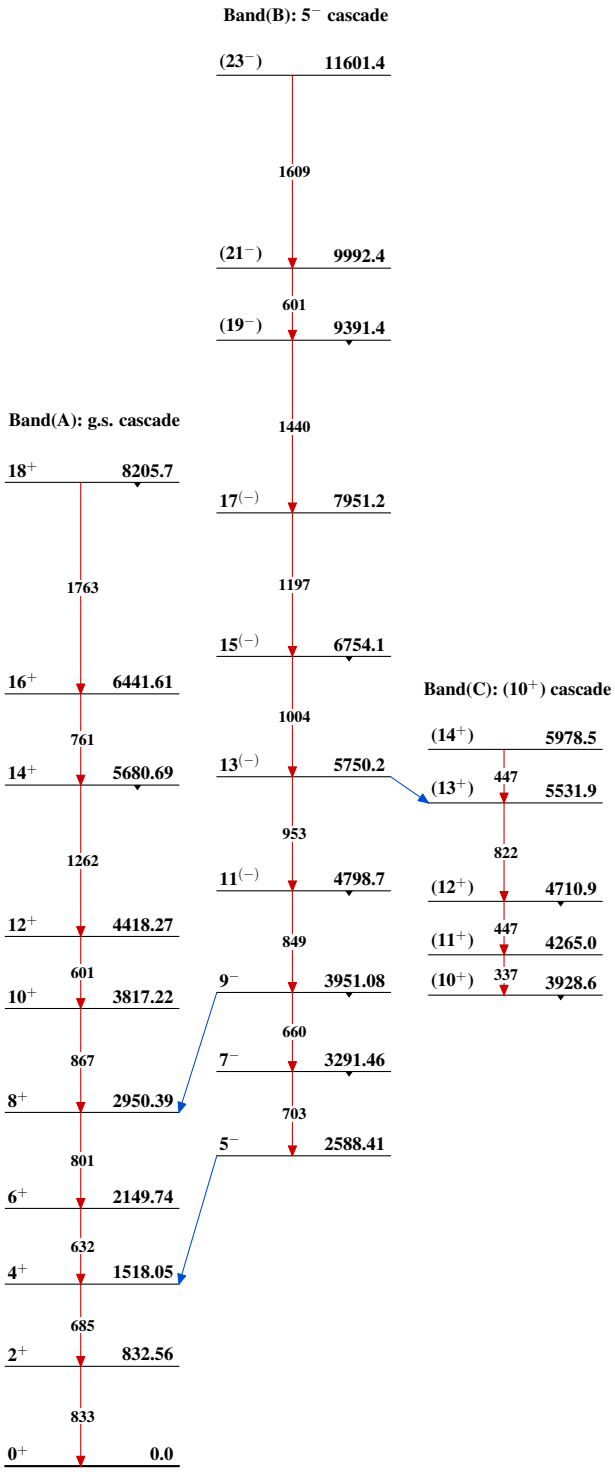
Level Scheme (continued)

Intensities: Type not specified



$^{96}_{44}Ru_{52}$

Adopted Levels, Gammas



$^{96}_{44}Ru_{52}$