Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huo Su, Yang Dong	NDS 112,1513 (2011)	29-Oct-2009

Q(β^-)=−2132.9 *4*; S(n)=10081.9 *5*; S(p)=5848.1 *5*; Q(α)=−7757.9 *19* 2012Wa38
Note: Current evaluation has used the following Q record −2136 1110083.1 *215849*.0 *20*−7758.8 *27* 2003Au02.

^{56}Co Levels

E(I),J(I) From ^{28}Si(^{32}S,3pnγ).

Cross Reference (XREF) Flags

A	^{56}Ni ε decay	E	^{54}Fe(α,d)	I	^{58}Ni(p,^{3}He)
B	^{50}Cr(^{12}C,np$\alpha\gamma$)	F	^{54}Fe(^{16}O,^{14}N)	J	^{58}Ni(d,α), (pol d,α)
C	^{54}Fe(^{3}He,p), (^{3}He,pγ)	G	^{56}Fe(p,n), (p,nγ)	K	^{58}Ni(d,$\alpha\gamma$)
D	^{54}Fe(α,np),(α,npγ)	H	^{56}Fe(^{3}He,t)	L	^{28}Si(^{32}S,3pnγ)

E(level)[†]	J$^\pi$	T$_{1/2}$[@]	XREF	Comments
0.0	4$^+$	77.236 d *26*	ABCDEFGHIJK	%ε+%β^+=100 μ= 3.85 *1* (2005St24); Q=+0.25 *9* (2005St24) J$^\pi$: J=4 from atomic beam (1976Fu06) and π=+ from L=4 in ^{54}Fe(α,d). T$_{1/2}$: from evaluation of T$_{1/2}$ by 2004WoZZ. Others: 77.12 d *7* (1978La21), 77.12 d *10* (1977An13), 78.4 d *5* (1974Cr05), 77.2 d *8* (1954Bu58), 77.30 d *9* (1989Al24), 78.76 d *12* (1972Em01), 77.3 d *3* (1957Wr37), 77.08 d *8* (1989Le17), 77.28 d *4* (1989Sc17), and 77.29 d *3* (1990Al29), 77.210 d *28* and 77.290 d *40* (1992Fu02).
158.38 *3*	3$^+$	<0.1[&] ns	A CDEFGHIJK	XREF: F(167)I(166). J$^\pi$: J=3 from $\gamma\gamma(\theta)$ in ^{56}Ni ε decay and π=+ from L(α,d)=2.
576.50 *7*	5$^+$	0.28[c] ps *+7−5*	BCDEFGHIJK	T$_{1/2}$: others: 0.33 ps *+22−10* (p,nγ), 0.33 ps *+22−11* (^{3}He,pγ). J$^\pi$: configuration=((π 1f$_{7/2}$)(ν 1p$_{3/2}$))5$^+$. See also J=5 from $\gamma\gamma(\theta)$ (^{12}C,np$\alpha\gamma$) and π=+ from L(α,d)=4.
829.61 *5*	4$^+$	>1.7 ps	CDE GHIJK	XREF: I(840). T$_{1/2}$: others: >0.76 ps (p,nγ), >1.4 ps (d,$\alpha\gamma$). J$^\pi$: J=4 from $\gamma(\theta)$ of 671γ to 3$^+$ 158 in ^{54}Fe(α,npγ) and π=+ from L(p,^{3}He)=4.
970.23 *4*	2$^+$	0.12 ps *+12−6*	A CDE GHIJK	XREF: I(961). T$_{1/2}$: others: 0.076 ps *+21−14* (p,nγ), <0.1 ns in ^{56}Ni ε decay, and 0.139 ps *+31−24* (d,$\alpha\gamma$). J$^\pi$: J=2 from p$\gamma(\theta)$ of 812γ to 3$^+$ 158 in ^{54}Fe(^{3}He,pγ) and π=+ from L(^{3}He,p)=2.
1009.13 *7*	5$^+$	0.38[c] ps *+14−9*	CDE GHIJK	XREF: I(1001). T$_{1/2}$: others: 0.44 ps *+25−12* in ^{56}Fe(p,nγ), 0.27 ps *+18−9* in ^{54}Fe(^{3}He,pγ). J$^\pi$: from analyzing power in ^{58}Ni(pol d,α) and L(d,α)=4.
1114.51 *5*	3$^+$	0.19 ps *+9−6*	C E GHIJK	XREF: I(1106). T$_{1/2}$: others: 0.24 ps *+4−2* (^{3}He,pγ), 0.139 ps *+28−24* (d,$\alpha\gamma$). J$^\pi$: J=3 from ^{56}Fe(p,n), (p,nγ). M1+E2 γ to 4$^+$.
1450.68 *4*	0$^+$	1.58[&] ns *6*	A C GHIJK	XREF: I(1444). E(level): anti-analog state of 0$^+$ g.s. in ^{56}Fe in ^{56}Fe(p,n), (p,nγ). T$_{1/2}$: others: >2.0 ps (^{3}He,pγ), >0.4 ps (p,nγ). J$^\pi$: J=0 from $\gamma\gamma(\theta)$ in ^{56}Ni ε decay, π=+ from L(p,^{3}He)=0.
1585 *10*			C	

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Adopted Levels, Gammas (continued)

^{56}Co Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$[@]	XREF	Comments
1720.18 *4*	1^+	0.34[b] ps *+35−12*	A C E GHIJK	XREF: I(1714). $T_{1/2}$: others: 0.47 ps *+40−16* (^{3}He,pγ), 0.31 ps *+38−13* (d,αγ). Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(d,α)=0.
1930.36 *16*	3^+	33[c] fs *+8−7*	C E GHIJK	XREF: I(1924). Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(d,α)=2.
2060.00 *15*	2^+	24[c] fs *6*	C E GHIJK	XREF: I(2050). Jπ: π=+ from L=2 in ^{54}Fe(α,d); pγ(θ)'s in ^{54}Fe(^{3}He,pγ) gives J=2,(3); 670γ from 1^+ 2730 is mult=D based on comparison with RUL, D from 1^+ 2730 rules out J=(3).
2224.87 *15*	2^+		C GHIJ	XREF: I(2220). Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(d,α)=2.
2282.63 *12*	7^+	>1.25[c] ps	B D HIJK	XREF: I(2271). $T_{1/2}$: other: >1.4 ps in (α,npγ). Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(d,α)=6.
2290.1? *3*			C GH	
2306.13 *21*	$(2)^+$		C E G J	XREF: E(2300)J(2301). Jπ: from tensor analyzing power in ^{58}Ni(pol d,α) and L(α,d)=L(^{3}He,p)=2.
2357.4 *3*	1^+		C G J	Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(d,α)=0.
2371.83 *20*	6^+	42[a] fs *21*	DE IJ	Jπ: J=6 from γ(θ) of 1795γ to 5^+ 576 in ^{54}Fe(α,npγ) and π=+ from L(α,d)=6.
2456?	$0^+,1^+$		I	Jπ: L(p,^{3}He)=0(+2).
2469.6 *6*		16[c] fs *9*	C E G JK	
2609.5 *7*	3^+		G J	Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(d,α)=2.
2635.64 *19*	1^+	14[c] fs *8*	C GHIJK	XREF: I(2626). $T_{1/2}$: other: 15 fs *+19−11* in ^{54}Fe(^{3}He,pγ). Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(p,^{3}He)=2.
2647.2 *7*	$(0^+,1^+)$		G J	Jπ: L(d,α)=(0).
2665.1 *7*	(3^+)		G J	Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(d,α)=(2).
2729.89 *15*	1^+	69[c] fs *+21−17*	C E GHIJK	T=1 T is from ^{56}Fe(p,n), ^{58}Ni(p,^{3}He). $T_{1/2}$: other: 67 fs *+33−19* (^{3}He,pγ). Jπ: from analyzing power and L(d,α)=0.
2770 *5*			J	
2789 *5*			E J	
2926 *5*	(2^+)		IJ	XREF: I(2946). Jπ: from analyzing power and partially resolved doublet for 2926 and 2969 levels in ^{58}Ni(pol d,α), and L(^{3}He,p)=2.
2969 *5*	2^+		C H J	Jπ: from L(^{3}He,t)=2 and analyzing power in ^{58}Ni(pol d,α).
3048 *5*	$3^+,4^+,5^+$		IJ	Jπ: L(p,^{3}He)=4.
3060 *5*	5^+		H J	Jπ: from analyzing power and L(d,α)=4.
3075.91 *22*	1^+	22 fs *+8−6*	C E J	XREF: E(3070). Jπ: J=1 from pγ(θ) of 1625γ to 0^+ 1450 in ^{54}Fe(^{3}He,pγ) and π=+ from L(d,α)=2.
3140 *5*	3^+		IJ	Jπ: from analyzing power and L(d,α)=2.
3180 *5*	$1^+,3^+$		C E H J	XREF: H(3177). Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(^{3}He,p)=2.
3234 *5*	(0^+)		J	Jπ: from L(d,α)=(0) and analyzing power in (pol d,α).
3255 *5*			J	
3297 *5*	4^+		H J	XREF: H(3300). Jπ: from analyzing power and L(d,α)=4.
3366 *5*	$(^-)$		H J	XREF: H(3362).

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Adopted Levels, Gammas (continued)

^{56}Co Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$[@]	XREF	Comments
				Jπ: L(d,α)=(3).
3378[‡] *10*	1+		C	Jπ: L(^{3}He,p)=0+2.
3382 *5*	2+		IJ	XREF: I(3396). Jπ: from analyzing power in ^{58}Ni(pol d,α) and L(p,^{3}He)=2.
3436 *5*	0+,1+		H J	XREF: H(3423). Jπ: L(d,α)=0.
3493 *5*			H J	XREF: H(3489).
3510 *11*	(0+)		G IJ	XREF: I(3501). E(level),Jπ: IAS of 0+ g.s. in ^{56}Fe in ^{56}Fe(p,n).
3526.6 *5*	0+	6 fs *5*	C J	Jπ: from L=0 in ^{56}Fe(^{3}He,t) and analyzing power in ^{58}Ni(pol d,α).
3544 *11*	7+		H J	Jπ: based on vector-analyzing power angular distribution in ^{58}Ni(pol d,α).
3570?[#]			E	
3592 *12*	(0+)		E GHIJ	E(level),Jπ: IAS of 0+ g.s. in ^{56}Fe in ^{56}Fe(^{3}He,t). T=2. T is from ^{56}Fe(p,n), ^{58}Ni(p,^{3}He).
3598.64 *23*	0+,1+	18 fs *5*	C H J	Jπ: L(^{3}He,p)=0.
3610 *5*			J	
3638.11 *16*	8+	55[a] fs *+28−12*	D	Jπ: γ(θ) of M1+E2 1355γ to 7+ 2283 in ^{54}Fe(α,npγ).
3642? *11*	(−)		J	Jπ: L(d,α)=(3).
3694 *12*			H	
3717 *5*	(−)		J	Jπ: L(d,α)=(3).
3798 *11*	(+)		E J	XREF: E(3790). Jπ: L(d,α)=(6).
3807[‡] *10*	1+,2+,3+		C J	XREF: J(3815). Jπ: L(^{3}He,p)=2.
3863[‡] *12*			C J	Jπ: L(d,α)=(3,4).
3876 *12*	(+)		J	Jπ: L(d,α)=(2).
3900 *12*			J	
3935 *12*			J	
3960 *12*			J	
4011 *12*	3+,4+,5+		J	Jπ: L(d,α)=4.
4019 *12*			J	
4032 *10*	1+,2+,3+		C E J	XREF: E(4040). Jπ: L(^{3}He,p)=2.
4062 *12*			J	
4094 *12*			J	
4139 *12*	3+,4+,5+		J	Jπ: L(d,α)=4.
4180.16 *18*	9+	0.41[a] ps *4*	BCD J	Jπ: J=9 from γ(θ) of 1898γ and σ(E) in ^{54}Fe(α,npγ).
4183[‡] *10*	(+)		C J	Jπ: L(d,α)=(2).
4209 *13*			J	
4222 *13*			J	
4281 *13*			J	
4293 *13*			J	
4308 *13*			H J	XREF: H(4300).
4349 *13*			J	
4372 *3*	1+	10 fs *+12−8*	C	Jπ: L(^{3}He,p)=0+2.
4388 *13*	1+,2+,3+		J	Jπ: L(d,α)=2.
4429 *3*	(2+)		C G I	T=2 E(level),Jπ: IAS of 2+ 847 in ^{56}Fe in ^{56}Fe(p,n).
4441 *13*	7+		C J	Jπ: L=6 and vector-analyzing power in ^{58}Ni(pol d,α).
4453 *13*			J	
4501 *14*			J	

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Adopted Levels, Gammas (continued)

^{56}Co Levels (continued)

E(level)[†]	J^π	$T_{1/2}$[@]	XREF	Comments
4531 *14*			J	
4560 *14*			J	
4684 *14*			J	
4743 *14*			J	
4768 *14*			J	
4796 *10*			C	
4846 *15*			J	
4928 *15*			J	
4992[‡] *10*	8^-		C E J	J^π: π=− from L=7 and J=8 from DWBA, configuration=((π $1f_{7/2}$)(ν $1g_{9/2}$))8^- (1994Fi01) in ^{54}Fe(α,d).
5008 *15*			J	
5081[‡] *10*			C IJ	
5146 *15*	5^+		J	J^π: L=4 and vector-analyzing power in ^{58}Ni(pol d,α).
5187?	$1^+,2^+,3^+$		I	J^π: L(p,^{3}He)=2. E(level): From ^{58}Ni(p,^{3}He).
5239[‡] *10*			C J	
5274.57 *20*	10^+	42[a] fs *+28−14*	D	J^π: $\gamma(\theta)$ of M1+E2 1094γ to 9^+ 4180 in ^{54}Fe(α,npγ).
5338 *3*		≤8 fs	C E	
5430[#]	6^-		EF H	XREF: F(5400)H(5400). E(level): from ^{54}Fe(α,d). J^π: configuration=((π $p_{3/2}$)(ν $g_{9/2}$))6^- (1994Fi01) in ^{54}Fe(α,d).
5472.3 *20*	$1^{(+)},(2^+)$	7 fs *+4−3*	C	J^π: J=1,(2) from p$\gamma(\theta)$ of 3752γ to 1^+ 1720; mult(3752γ)=D,E2; probably π=(+).
5500[#] *80*			E	
5562[‡] *10*	$1^+,2^+,3^+$		C	J^π: L(^{3}He,p)=2.
≈5620			J	
6069[‡] *10*			C J	XREF: J(6080).
6228[‡] *10*			C	
6319[‡] *10*	$(0^+,1^+)$		C	J^π: L(^{3}He,p)=(0).
6545[‡] *10*			C F	XREF: F(6500).
6570[#]	6^-		E	J^π: configuration=((π $g_{9/2}$)(ν $p_{3/2}$))6^- (1994Fi01) in ^{54}Fe(α,d).
≈6850			J	
7350[#]			E	
≈7480			J	
≈7870			J	
8920[#] *30*	9^+		EF	XREF: F(8900). J^π: configuration=((π $g_{9/2}$)(ν $g_{9/2}$))9^+ (1994Fi01) in ^{54}Fe(α,d).
10.3×10^3	(12)		L	
11.802×10^3	(14)		L	
13.650×10^3	(16)		F L	XREF: F(13700).
15.895×10^3	(18)		L	
18.6×10^3	(20)		L	

[†] For states connected by γ's, E(level) are from Eγ and scheme by using least-squares adjustment procedure; the others are from ^{58}Ni(d,α), (pol d,α), except as noted.
[‡] From ^{54}Fe(^{3}He,p),(^{3}He,pγ).

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Adopted Levels, Gammas (continued)

^{56}Co Levels (continued)

From ^{54}Fe(α,d).
@ From ^{54}Fe(^{3}He,pγ), DSA method, except as noted.
& From $\gamma\gamma$(t) in ^{56}Ni ε decay.
a From ^{54}Fe(α,npγ), DSA method.
b From ^{56}Fe(p,nγ), DSA method.
c From ^{58}Ni(d,$\alpha\gamma$), DSA method.

Adopted Levels, Gammas (continued)

γ(^{56}Co)

Unplaced γ's are from ^{56}Fe(p,nγ), except as noted.

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	α[c]	Comments
158.38	3+	158.38[@] *3*	100[@]	0.0	4+	M1+E2[@]	+0.016[@] *6*	0.01253	α(K)=0.01107; α(L)=0.00110 B(M1)(W.u.)>0.055; B(E2)(W.u.)>0.28 δ: others: +0.27 *4* (α,npγ), +0.023 *17* (p,nγ).
576.50	5+	576.47[a] *8*	100[a]	0.0	4+	M1+E2[&]	−0.16[&] *6*		B(M1)(W.u.)=0.400 *8*; B(E2)(W.u.)=6.E+1 *5* δ: others: −0.055 *15* (p,nγ), 0.00 *5* (^{12}C,npαγ).
829.61	4+	253.05[a] *11*	2.0[a] *3*	576.50	5+				
		671.18[a] *8*	100[a] *2*	158.38	3+	M1+E2[&]	−0.09[&] *12*		B(M1)(W.u.)<0.032; B(E2)(W.u.)<4.1 δ: other: −0.25 *3* in ^{56}Fe(p,nγ).
		829.60[a] *8*	34[a] *2*	0.0	4+	M1+E2	−0.43 *28*		B(M1)(W.u.)<0.0058; B(E2)(W.u.)<5.5 δ: may be incorrect due to large background corrections.
970.23	2+	811.85[@] *3*	100[@] *1*	158.38	3+	M1(+E2)[@]	−0.02[@] *2*		B(M1)(W.u.)=(0.3418 *3*); B(E2)(W.u.)=(0.4 *+9−4*) δ: other: −0.025 *15* in ^{56}Fe(p,nγ).
		970.4[a] *2*	0.30[a] *5*	0.0	4+				
1009.13	5+	179.50[a] *11*	6.0[a] *7*	829.61	4+				
		432.5[a] *2*	7.1[a] *9*	576.50	5+				
		1009.14[a] *8*	100[a] *10*	0.0	4+	M1+E2	−0.10 *5*		B(M1)(W.u.)=0.0494 *5*; B(E2)(W.u.)=1.0 *10*
1114.51	3+	284.86[a] *10*	13.1[a] *12*	829.61	4+	M1+E2	−0.05 *3*	0.00293 *3*	α(K)=0.00259 *3*; α(L)=0.00026 B(M1)(W.u.)=0.5514 *17*; B(E2)(W.u.)=3.E+1 *+5−3*
		956.14[a] *8*	5.7[a] *4*	158.38	3+				B(M1)(W.u.)= 0.0032 *16*; B(E2)(W.u.)=7 *4*
		1114.47[a] *8*	100.0[a] *14*	0.0	4+	M1+E2	+0.085 *25*		B(M1)(W.u.)=0.0700 *3*; B(E2)(W.u.)=0.8 *5*
1450.68	0+	480.44[@] *2*	100[@]	970.23	2+	E2[@]		0.00175	α(K)=0.00155; α(L)=0.00015 B(E2)(W.u.)=1.10 *5*
1720.18	1+	269.50[@] *2*	73.7[@] *16*	1450.68	0+	M1[@]		0.00332	α(K)=0.00294; α(L)=0.00029 B(M1)(W.u.)=1.2 *+5−12*
		749.95[@] *3*	100[@] *3*	970.23	2+	M1(+E2)[@]	0.00[@] *3*		B(M1)(W.u.)=(0.08 *+3−8*) δ: other: −0.10 *15* in ^{56}Fe(p,nγ).
		1561.80[@] *5*	28.3[@] *12*	158.38	3+	E2[@]			B(E2)(W.u.)=2.0 *+7−20*
1930.36	3+	960.3 *2*	100 *12*	970.23	2+				
		1099.6 *4*	21.2 *58*	829.61	4+				
		1772.2 *3*	71.2 *77*	158.38	3+				
2060.00	2+	945.6 *2*	100 *15*	1114.51	3+				
		1089.3 *5*	28.3 *57*	970.23	2+				
		1901.9 *5*	60.4 *94*	158.38	3+				
2224.87	2+	1110.0[a] *2*		1114.51	3+				
		1254.4[a] *3*		970.23	2+				

Adopted Levels, Gammas (continued)

γ(^{56}Co) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
2224.87	2+	2066.1[a] *4*		158.38	3+			
2282.63	7+	1706.1[&] *1*	100[&]	576.50	5+	E2[&]		B(E2)(W.u.)<2.5
2290.1?		1319.8 *5*	53 *11*	970.23	2+			
		2131.7 *6*	69 *18*	158.38	3+			
		2290.4 *8*	100 *20*	0.0	4+			
2306.13	(2)+	1336.4 *5*	61 *12*	970.23	2+			
		2148.2 *6*	100 *20*	158.38	3+			
		2306.1 *8*	35 *12*	0.0	4+			
2357.4	1+	1387.3[a] *3*		970.23	2+			
		2198.7[a] *5*		158.38	3+			
2371.83	6+	1362.0[&] *5*	39[&] *4*	1009.13	5+			
		1795.4[&] *2*	100[&] *8*	576.50	5+	M1+E2[&]	+0.03[&] *5*	B(M1)(W.u.)=0.07 *4*; B(E2)(W.u.)=0.04 *+13−4*
2469.6		1893.1 *6*		576.50	5+			
2609.5	3+	2451.1[a] *7*		158.38	3+			
2635.64	1+	1184.9[a] *2*		1450.68	0+			
2647.2	(0+,1+)	2488.8[a] *7*		158.38	3+			
2665.1	(3+)	2506.7[a] *7*		158.38	3+			
2729.89	1+	423.9 *2*	42.4 *91*	2306.13	(2)+			
		503.8 *3*	42.4 *91*	2224.87	2+			
		670.2 *3*	76 *18*	2060.00	2+			
		1279.7 *4*	42 *12*	1450.68	0+			
		1760.1 *3*	100 *15*	970.23	2+			
3075.91	1+	1015.8 *3*	24 *4*	2060.00	2+			
		1625.2 *3*	100 *4*	1450.68	0+			
		2106.4 *8*	9 *4*	970.23	2+			
3526.6	0+	1806.4 *5*		1720.18	1+			
3598.64	0+,1+	868.9 *3*	63 *8*	2729.89	1+			
		962.9 *3*	33 *6*	2635.64	1+			
		1878.2 *6*	100 *6*	1720.18	1+			
3638.11	8+	1355.4[&] *1*	100[&]	2282.63	7+	M1+E2[&]	+0.15[&] *4*	B(M1)(W.u.)=0.1573 *19*; B(E2)(W.u.)=3.9 *21*
4180.16	9+	542.0[&] *1*	37[&] *1*	3638.11	8+	M1+E2[&]	+0.05[&] *9*	B(M1)(W.u.)=0.091 *10*; B(E2)(W.u.)=1.6 *+57−16*
		1898.0[&] *3*	100[&] *4*	2282.63	7+	E2[&]		B(E2)(W.u.)=3.2 *4*
4372	1+	2652 *3*		1720.18	1+			
4429	(2+)	2978 *3*		1450.68	0+			
5274.57	10+	1094.4[&] *1*	100[&]	4180.16	9+	M1+E2[&]	+0.13[&] *5*	B(M1)(W.u.)=0.393 *5*; B(E2)(W.u.)=11 *9*
5338		3048 *3*		2290.1?				
5472.3	1(+),(2+)	3752 *2*		1720.18	1+	D,E2		Mult.: from RUL.
11.802×10^3	(14)	1502[b]		10.3×10^3	(12)			
13.650×10^3	(16)	1848[b]		11.802×10^3	(14)			

Adopted Levels, Gammas (continued)

γ(^{56}Co) (continued)

E_i(level)	J_i^π	E_γ [†]	E_f	J_f^π
15.895×10^3	(18)	2245[b]	13.650×10^3	(16)
18.6×10^3	(20)	2667[bd]	15.895×10^3	(18)

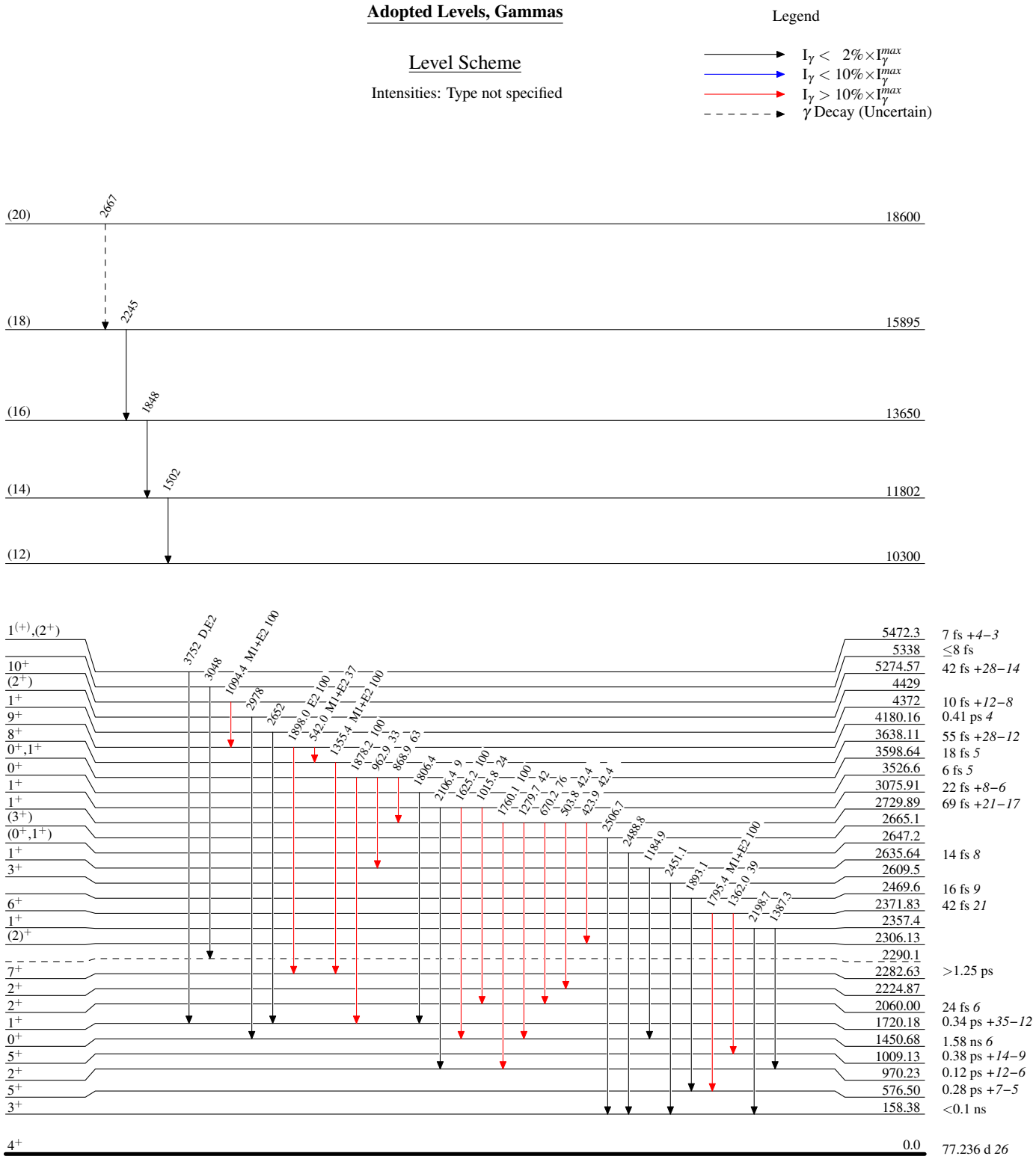
† From ^{54}Fe(^{3}He,pγ), except as noted.
‡ Relative photon branching from each level renormalized to 100 for the strongest branching. Values from ^{54}Fe(^{3}He,pγ), except as noted.
# From ^{56}Fe(p,nγ), except as noted.
@ From ^{56}Ni ε decay.
& From ^{54}Fe(α,npγ).
a From ^{56}Fe(p,nγ).
b From ^{28}Si(^{32}S,3pnγ).
c 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.
d Placement of transition in the level scheme is uncertain.

$^{56}_{27}Co_{29}$-8

Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified

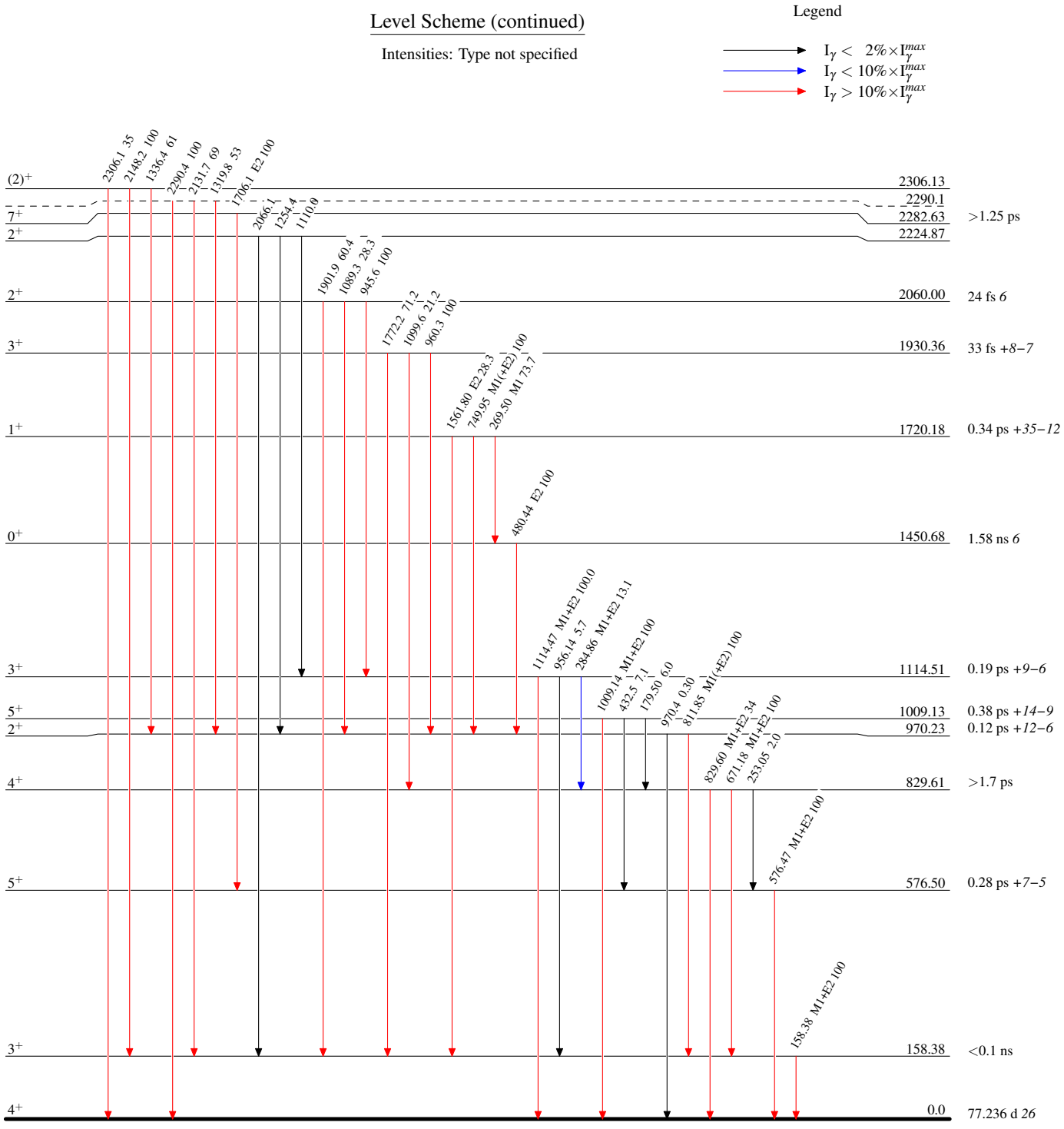


$^{56}_{27}Co_{29}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



$^{56}_{27}Co_{29}$