

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111,1619 (2010)	20-Jan-2009

$Q(\beta^-) = -6.36 \times 10^3$ 15; S(n)=11285 18; S(p)=2219 19; $Q(\alpha) = 9.1 \times 10^2$ 3 2012Wa38

Note: Current evaluation has used the following Q record -636E+1 1411283 17 2217 18 909 31 2009AuZZ.

Mass measurement: 1996Os04: Mass excess = -70.81 16 MeV.

 ^{121}Cs LevelsCross Reference (XREF) Flags

- A ^{121}Ba ε decay
 B (HI,xnyp γ)
 C ^{121}Cs IT decay
 D $^{110}\text{Cd}(^{14}\text{N}, 3n\gamma), ^{109}\text{Ag}(^{16}\text{O}, 4n\gamma)$

E(level) ^b	J π ^c	T _{1/2}	XREF	Comments
0.0 [‡]	3/2 ⁽⁺⁾	155 s 4	ABCD	$\% \varepsilon + \% \beta^+ = 100$ $\mu = +0.770$ 4; $Q = +0.838$ 9 μ : ABL (2005St24); relative to $\mu = +2.5820246$ 34 for ^{133}Cs g.s. Others: 0.785 16 (AB) (1977Ek02). Q : ABL (2005St24); Sternheimer or other polarization correction included. $T_{1/2}$: from 1991Ge02. Others: 1969Ch18: 125.6 s 14 for a mixed source of (g.s.+isomer) of ^{121}Cs ; 1981So06: 136 s 3 affected by mixture of isomeric state. J^π : from LASER spectroscopy (1981Th06); Shell model configuration = (π 3/2[422]).
68.5 [#] 3	9/2 ⁽⁺⁾	122 s 3	BCD	$\% \varepsilon + \% \beta^+ = 83$; $\% \text{IT} = 17$ $\mu = +5.41$ 3; $Q = +2.69$ 5 $\% \text{IT} = 17$ from the total $^{121\text{m}}\text{Cs}$ deexcitation and the total intensity of ce of M3 isomeric transition (1991Ge02). Other: 60 % 4 (1981So06). μ : ABL (2005St24); relative to $\mu = +2.5820246$ 34 for ^{133}Cs g.s. Q : ABL (2005St24); Sternheimer or other polarization correction included. J^π : M3 γ to 3/2 ⁺ ; Shell model configuration = (π 9/2[404]). $T_{1/2}$: from 1991Ge02. See comments on $T_{1/2}$ for g.s.
98.2 5			AB	
99.2 5			A	
209.8 5			A	
210.8 [‡] 5	(7/2 ⁺)		AB	
313.9 [#] 6	(11/2 ⁺)	5.7 ps 8	B D	$T_{1/2}$: effective half-life, not corrected for feeding life-time, from Doppler-shift recoil distance method (1992Dr05).
589.9 [#] 7	(13/2 ⁺)		B D	
627.7 [‡] 7	(11/2 ⁺)		B	
893.9 [#] 7	(15/2 ⁺)	3.8 ps 12	B D	$T_{1/2}$: effective half-life, not corrected for feeding life-time, from Doppler-shift recoil distance method (1992Dr05).
1197.9 [‡] 9	(15/2 ⁺)		B	
1220.8 [#] 7	(17/2 ⁺)		B D	
1568.1 [#] 8	(19/2 ⁺)		B D	
1863.9 [‡] 14	(19/2 ⁺)		B	
1888.8 [@] 8	(17/2 ⁻)		B	
1928.3 [#] 9	(21/2 ⁺)		B D	

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Adopted Levels, Gammas (continued) ^{121}Cs Levels (continued)

E(level) ^b	J ^π ^c	T _{1/2}	XREF	Comments
2077.5@ 8	(19/2 ⁻)		B	
2294.6@ 9	(21/2 ⁻)		B	
2295.3# 10	(23/2 ⁺)		B D	
2451.4‡ 15	(23/2 ⁺)		B	
2543.6@ 9	(23/2 ⁻)		B	
2661.5# 10	(25/2 ⁺)		B	
2824.9@ 10	(25/2 ⁻)		B	
3019.3# 11	(27/2 ⁺)		B	
3031.5‡ 15	(27/2 ⁺)		B	
3138.6@ 10	(27/2 ⁻)		B	
3369.5# 12	(29/2 ⁺)		B	
3482.2@ 10	(29/2 ⁻)		B	
3698.5‡ 18	(31/2 ⁺)		B	
3776.0# 12	(31/2 ⁺)		B	
3856.8@ 11	(31/2 ⁻)		B	
4170.9# 13	(33/2 ⁺)		B	
4256.5@ 12	(33/2 ⁻)		B	
4455.6‡ 18	(35/2 ⁺)		B	
4623.7# 1	(35/2 ⁺)		B	
4683.8@ 13	(35/2 ⁻)		B	
5066.1# 15	(37/2 ⁺)		B	
5294.4‡ 18	(39/2 ⁺)		B	
6216.3‡ 19	(43/2 ⁺)		B	
7225.8‡ 20	(47/2 ⁺)		B	
8322.9‡ 20	(51/2 ⁺)		B	
9512.2‡ 20	(55/2 ⁺)		B	
10796.2‡ 23	(59/2 ⁺)		B	
12184.7‡ 1	(63/2 ⁺)		B	
x†	(11/2 ⁻)		B D	Additional information 1.
x+285.7† 3	(15/2 ⁻)	48 ps +4-6	B D	T _{1/2} : from Doppler-shift recoil distance method (1992Dr05).
x+757.1† 7	(19/2 ⁻)	3.4 ps 7	B D	T _{1/2} : from Doppler-shift recoil distance method (1992Dr05).
x+1065.9& 4	(17/2 ⁻)		D	
x+1372.0† 9	(23/2 ⁻)	≤1.7 ps	B D	T _{1/2} : from Doppler-shift recoil distance method (1992Dr05).
x+1435.9 ^a 4	(19/2 ⁻)		D	
x+1603.0& 4	(21/2 ⁻)		D	
x+2001.7 ^a 4	(23/2 ⁻)		D	
x+2098.2† 10	(27/2 ⁻)		B D	
x+2260.0& 5	(25/2 ⁻)		D	
x+2674.2 ^a 5	(27/2 ⁻)		D	
x+2737.9 5	(25/2)		D	
x+2835.0 6	(25/2)		D	
x+2914.6† 12	(31/2 ⁻)		B D	
x+3007.6& 5	(29/2 ⁻)		D	
x+3111.1 6	(27/2)		D	
x+3375.2 5	(29/2)		D	

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Adopted Levels, Gammas (continued) ^{121}Cs Levels (continued)

E(level) ^b	J ^π ^c	XREF	E(level) ^b	J ^π ^c	XREF	E(level) ^b	J ^π ^c	XREF
x+3418.2 6	(29/2)	D	x+4280.4 ^a 6	(35/2 ⁻)	D	x+8144.7 [†] 20	(51/2 ⁻)	B
x+3434.3 ^a 5	(31/2 ⁻)	D	x+4703.7& 6	(37/2 ⁻)	D	x+9438.7 [†] 23	(55/2 ⁻)	B
x+3808.6 [†] 13	(35/2 ⁻)	B D	x+4776.9 [†] 14	(39/2 ⁻)	B D	x+10811? [†]	(59/2 ⁻)	B
x+3824.6& 6	(33/2 ⁻)	D	x+5820.7 [†] 15	(43/2 ⁻)	B			
x+4077.4 6		D	x+6940.7 [†] 18	(47/2 ⁻)	B			

[†] Band(A): decoupled band on h_{11/2}.

[‡] Band(B): 3/2⁺[422].

Band(C): 9/2⁺[404].

@ Band(D): 3quasi-particle band on h_{11/2}.

& Band(E): h_{11/2}[550]1/2, α=+1/2.

^a Band(F): γ-vibration band on h_{11/2}.

^b E(levels) are based on a least-squares fit to E(γ's).

^c Spins and parities are proposed based on γγ coin, angular distribution, and DCO ratios in (HI,xnpy), unless noted otherwise.

 $\gamma(^{121}\text{Cs})$

E _i (level)	J _i ^π	E _γ [‡]	I _γ	E _f	J _f ^π	Mult. [†]	α ^b	Comments
68.5	9/2 ⁽⁺⁾	68.5 [#] 3	100 [#]	0.0	3/2 ⁽⁺⁾	M3	433 11	α(K)=216 5; α(L)=168 5; α(M)=39.6 12; α(N+..)=9.3 3 α(N)=8.29 24; α(O)=1.03 3; α(P)=0.0275 8 B(M3)(W.u.)=0.0505 24 Mult.: from α(exp), K/L in ^{121}Cs IT decay.
98.2		98.2 [#] 5	100 [#]	0.0	3/2 ⁽⁺⁾			
99.2		99.2 [#] 5	100 [#]	0.0	3/2 ⁽⁺⁾			
209.8		110.6 [#] 5	39 [#] 4	99.2				
		111.6 [#] 5	100 [#] 10	98.2				
210.8	(7/2 ⁺)	210.8 [#] 5	100 [#]	0.0	3/2 ⁽⁺⁾	Q		
313.9	(11/2 ⁺)	245.5 5	100	68.5	9/2 ⁽⁺⁾	(D)		
589.9	(13/2 ⁺)	275.9 5	100 7	313.9	(11/2 ⁺)	D		
		521 1	27 3	68.5	9/2 ⁽⁺⁾	Q		
627.7	(11/2 ⁺)	416.9 5	100	210.8	(7/2 ⁺)	Q		
893.9	(15/2 ⁺)	303.9 5	100 10	589.9	(13/2 ⁺)	D		
		580.2@ 5	<70	313.9	(11/2 ⁺)	(E2)	0.00630 9	α(K)=0.00534 8; α(L)=0.000761 11; α(M)=0.0001566 23; α(N+..)=3.75×10 ⁻⁵ 6 α(N)=3.28×10 ⁻⁵ 5; α(O)=4.45×10 ⁻⁶ 7; α(P)=1.94×10 ⁻⁷ 3 B(E2)(W.u.)=17 +18-17 I _γ : I _γ (580.1γ)+I _γ (580.2γ).
1197.9	(15/2 ⁺)	570.2 5	100	627.7	(11/2 ⁺)	Q		
1220.8	(17/2 ⁺)	327.4 5	100 7	893.9	(15/2 ⁺)	D		
		630.9 5	78 7	589.9	(13/2 ⁺)	Q		
1568.1	(19/2 ⁺)	347.0@ 5	72 5	1220.8	(17/2 ⁺)	D		
		674.5@ 5	100 7	893.9	(15/2 ⁺)	Q		
1863.9	(19/2 ⁺)	666@ 1	100	1197.9	(15/2 ⁺)			I _γ : I _γ (666γ)+I _γ (667γ).

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Adopted Levels, Gammas (continued)

$\gamma(^{121}\text{Cs})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	I_γ	E_f	J_f^π	Mult. [†]	α^b	Comments
1888.8	(17/2 ⁻)	994.2 5	100	893.9	(15/2 ⁺)	D		
1928.3	(21/2 ⁺)	360.2 5	92 7	1568.1	(19/2 ⁺)	D		
		708 ^c 1	100 ^c 8	1220.8	(17/2 ⁺)	(Q)		
2077.5	(19/2 ⁻)	188.4 5	100 8	1888.8	(17/2 ⁻)	D		
		857.4& 5		1220.8	(17/2 ⁺)	(D)		
2294.6	(21/2 ⁻)	217.5 5	100 10	2077.5	(19/2 ⁻)	D		
		404&@ 1		1888.8	(17/2 ⁻)			
2295.3	(23/2 ⁺)	367@ 1	<40	1928.3	(21/2 ⁺)	(D)		I_γ : $I_\gamma(366\gamma)+I_\gamma(367)$.
		727 1	<100	1568.1	(19/2 ⁺)	(Q)		I_γ : $I_\gamma(726.2\gamma)+I_\gamma(727\gamma)$.
2451.4	(23/2 ⁺)	587.5@ 5	100	1863.9	(19/2 ⁺)	Q		
2543.6	(23/2 ⁻)	248.8@ 5	100 7	2294.6	(21/2 ⁻)	D		
		466 1	95	2077.5	(19/2 ⁻)	Q		
2661.5	(25/2 ⁺)	366@ 1	<100	2295.3	(23/2 ⁺)	(D)		I_γ : $I_\gamma(366\gamma)+I_\gamma(367)$.
		733.2 5	65 6	1928.3	(21/2 ⁺)	Q		
2824.9	(25/2 ⁻)	280.9@ 5	100 8	2543.6	(23/2 ⁻)	D		
		530.6 5	38 3	2294.6	(21/2 ⁻)	Q		
3019.3	(27/2 ⁺)	357.9 5	100 8	2661.5	(25/2 ⁺)			
		724&@ 1		2295.3	(23/2 ⁺)	Q		
3031.5	(27/2 ⁺)	580.1@ 1	<100	2451.4	(23/2 ⁺)	(Q)		I_γ : $I_\gamma(580.1\gamma)+I_\gamma(580.2\gamma)$.
3138.6	(27/2 ⁻)	313.5@ 5	100 7	2824.9	(25/2 ⁻)	D		
		595& 1		2543.6	(23/2 ⁻)			
3369.5	(29/2 ⁺)	350@ 1	60 4	3019.3	(27/2 ⁺)	D		
		708 ^c 1	100 ^c 4	2661.5	(25/2 ⁺)			
3482.2	(29/2 ⁻)	343.4 5	100 11	3138.6	(27/2 ⁻)			
		657.6& 5		2824.9	(25/2 ⁻)	Q		
3698.5	(31/2 ⁺)	667@ 1	100 7	3031.5	(27/2 ⁺)	(Q)		
3776.0	(31/2 ⁺)	406.0 5	27 2	3369.5	(29/2 ⁺)	D		
		757@ 1	<100	3019.3	(27/2 ⁺)			I_γ : $I_\gamma(757\gamma)+I_\gamma(757.1\gamma)$.
3856.8	(31/2 ⁻)	374.7@ 5	100 8	3482.2	(29/2 ⁻)	D		
		718&@ 1		3138.6	(27/2 ⁻)			
4170.9	(33/2 ⁺)	394.4@ 5	26 2	3776.0	(31/2 ⁺)	D		
		803@ 1	100 9	3369.5	(29/2 ⁺)	Q		
4256.5	(33/2 ⁻)	399@ 1	6.2 7	3856.8	(31/2 ⁻)	D		
		774@ 1	100 8	3482.2	(29/2 ⁻)	Q		
4455.6	(35/2 ⁺)	757.1@ 1	<100	3698.5	(31/2 ⁺)	(Q)		I_γ : $I_\gamma(757\gamma)+I_\gamma(757.1\gamma)$.
4623?	(35/2 ⁺)	848@d 1	100	3776.0	(31/2 ⁺)	Q		
4683.8	(35/2 ⁻)	427.0 5	100 9	4256.5	(33/2 ⁻)	D		
		828& 1		3856.8	(31/2 ⁻)			
5066.1?	(37/2 ⁺)	895@d 1	100	4170.9	(33/2 ⁺)			I_γ : $I_\gamma(894.0\gamma)+I_\gamma(895\gamma)$.
5294.4	(39/2 ⁺)	838.8 5	100	4455.6	(35/2 ⁺)	Q		
6216.3	(43/2 ⁺)	921.9& 5		5294.4	(39/2 ⁺)			
7225.8	(47/2 ⁺)	1009.5 5	100	6216.3	(43/2 ⁺)	Q		
8322.9	(51/2 ⁺)	1097.1 5	100	7225.8	(47/2 ⁺)			
9512.2	(55/2 ⁺)	1189.3 1	100	8322.9	(51/2 ⁺)	Q		
10796.2	(59/2 ⁺)	1284@ 1	100	9512.2	(55/2 ⁺)	Q		
12184?	(63/2 ⁺)	1388&d 1	100	10796.2	(59/2 ⁺)			
x+285.7	(15/2 ⁻)	285.7 ^a 3	100	x	(11/2 ⁻)	(E2)	0.0509	$\alpha(\text{K})=0.0415\ 6$; $\alpha(\text{L})=0.00747\ 11$; $\alpha(\text{M})=0.001563\ 23$; $\alpha(\text{N}+..)=0.000367\ 6$

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Adopted Levels, Gammas (continued)

$\gamma(^{121}\text{Cs})$ (continued)							
$E_i(\text{level})$	J_i^π	$E_\gamma^{\dagger}$	I_γ	E_f	J_f^π	Mult. [†]	α^b
							Comments
x+757.1	(19/2 ⁻)	471.9 ^a 3	100	x+285.7	(15/2 ⁻)	E2	0.01106
							$\alpha(\text{N})=0.000324$ 5; $\alpha(\text{O})=4.18\times 10^{-5}$ 6; $\alpha(\text{P})=1.399\times 10^{-6}$ 20 B(E2)(W.u.)=166 +21-14 $\alpha(\text{K})=0.00931$ 14; $\alpha(\text{L})=0.001398$ 20; $\alpha(\text{M})=0.000289$ 4; $\alpha(\text{N}+..)=6.88\times 10^{-5}$ 10 $\alpha(\text{N})=6.04\times 10^{-5}$ 9; $\alpha(\text{O})=8.09\times 10^{-6}$ 12; $\alpha(\text{P})=3.33\times 10^{-7}$ 5 B(E2)(W.u.)=2.0 $\times 10^2$ 4
x+1065.9	(17/2 ⁻)	308.4 ^a 3	16 ^a 2	x+757.1	(19/2 ⁻)	D+Q	
		780.2 ^a 3	100 ^a 15	x+285.7	(15/2 ⁻)	D+Q	
x+1372.0	(23/2 ⁻)	614.8 ^a 3	100	x+757.1	(19/2 ⁻)	E2	0.00541 8
							B(E2)(W.u.)>1.1 $\times 10^2$ $\alpha(\text{K})=0.00460$ 7; $\alpha(\text{L})=0.000647$ 10; $\alpha(\text{M})=0.0001330$ 19; $\alpha(\text{N}+..)=3.19\times 10^{-5}$ 5 $\alpha(\text{N})=2.79\times 10^{-5}$ 4; $\alpha(\text{O})=3.79\times 10^{-6}$ 6; $\alpha(\text{P})=1.677\times 10^{-7}$ 24
x+1435.9	(19/2 ⁻)	370.0 ^a 3	18 ^a 3	x+1065.9	(17/2 ⁻)	D+Q	
		1150.2 ^a 3	100 ^a 15	x+285.7	(15/2 ⁻)	Q	
x+1603.0	(21/2 ⁻)	537.1 ^a 3	12 ^a 2	x+1065.9	(17/2 ⁻)	Q	
		845.4 ^a 3	100 ^a 15	x+757.1	(19/2 ⁻)	D+Q	
x+2001.7	(23/2 ⁻)	565.8 ^a 3	100 ^a 15	x+1435.9	(19/2 ⁻)	Q	
		1244.1 ^a 3	48 ^a 7	x+757.1	(19/2 ⁻)	Q	
x+2098.2	(27/2 ⁻)	726.0 ^a 3	100 ^a	x+1372.0	(23/2 ⁻)	Q	
x+2260.0	(25/2 ⁻)	657.0 ^a 3	53 ^a 8	x+1603.0	(21/2 ⁻)	Q	
		887.6 ^a 3	100 ^a 15	x+1372.0	(23/2 ⁻)	D+Q	
x+2674.2	(27/2 ⁻)	672.5 ^a 3	100 ^a 15	x+2001.7	(23/2 ⁻)	Q	
		1301.8 ^a 3	13 ^a 2	x+1372.0	(23/2 ⁻)	Q	
x+2737.9	(25/2)	1365.5 ^a 3	100 ^a	x+1372.0	(23/2 ⁻)	Q	
x+2835.0	(25/2)	1462.6 ^a 3	100 ^a	x+1372.0	(23/2 ⁻)	D+Q	
x+2914.6	(31/2 ⁻)	816.1 ^a 3	100 ^a	x+2098.2	(27/2 ⁻)	Q	
x+3007.6	(29/2 ⁻)	747.6 ^a 3	100 ^a 15	x+2260.0	(25/2 ⁻)	Q	
		909.2 ^a 3	95 ^a 14	x+2098.2	(27/2 ⁻)	D+Q	
x+3111.1	(27/2)	276.1 ^a 3	100 ^a	x+2835.0	(25/2)	D+Q	
x+3375.2	(29/2)	637.3 ^a 3	80 ^a 12	x+2737.9	(25/2)	Q	
		1276.8 ^a 3	100 ^a 15	x+2098.2	(27/2 ⁻)	D+Q	
x+3418.2	(29/2)	307.1 ^a 3	100 ^a 15	x+3111.1	(27/2)	D+Q	
		583.2 ^a 3	88 ^a 13	x+2835.0	(25/2)	Q	
x+3434.3	(31/2 ⁻)	760.1 ^a 3	100 ^a 15	x+2674.2	(27/2 ⁻)	Q	
		1335.9 ^a 3	16 ^a 2	x+2098.2	(27/2 ⁻)	Q	
x+3808.6	(35/2 ⁻)	893.8 ^a 3	100 ^a	x+2914.6	(31/2 ⁻)	Q	
x+3824.6	(33/2 ⁻)	817.0 ^a 3	100 ^a 15	x+3007.6	(29/2 ⁻)	Q	
		910.1 ^a 3	52 ^a 8	x+2914.6	(31/2 ⁻)	D+Q	
x+4077.4		702.2 ^a 3	100 ^a	x+3375.2	(29/2)		
x+4280.4	(35/2 ⁻)	846.1 ^a 3	100 ^a	x+3434.3	(31/2 ⁻)	Q	
x+4703.7	(37/2 ⁻)	879.1 ^a 3	100 ^a	x+3824.6	(33/2 ⁻)	Q	
x+4776.9	(39/2 ⁻)	968.2 ^a 3	100 ^a	x+3808.6	(35/2 ⁻)	Q	
x+5820.7	(43/2 ⁻)	1043.8 [@] 5	100	x+4776.9	(39/2 ⁻)	Q	
x+6940.7	(47/2 ⁻)	1120 [@] 1	100	x+5820.7	(43/2 ⁻)	Q	
x+8144.7	(51/2 ⁻)	1204 1	100	x+6940.7	(47/2 ⁻)	Q	

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Adopted Levels, Gammas (continued) $\gamma(^{121}\text{Cs})$ (continued)

<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>$E_\gamma^{\ddagger}$</u>	<u>I_γ</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[†]</u>
x+9438.7	(55/2 ⁻)	1294 ^{&}	100	x+8144.7	(51/2 ⁻)	
x+10811?	(59/2 ⁻)	1372 ^d	100	x+9438.7	(55/2 ⁻)	Q

[†] From anisotropy ratios; $I(\theta=37)/I(\theta=79)$ from [1992Li22](#) and from DCO ratios; $\text{DCO}=I_\gamma(0^\circ)/I_\gamma(117^\circ)$ from [2001Mo15](#).

[‡] From (HI,xnpy γ), unless noted otherwise.

From ^{121}Ba $\varepsilon+\beta^+$.

@ Contaminated by other γ 's.

& No intensity was given in (HI,xnpy γ) ([1992Li22](#)).

^a From $^{110}\text{Cd}(^{14}\text{N},3n\gamma)$, $^{109}\alpha\gamma(^{16}\text{O},4n\gamma)$.

^b 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.

^c Multiply placed with undivided intensity.

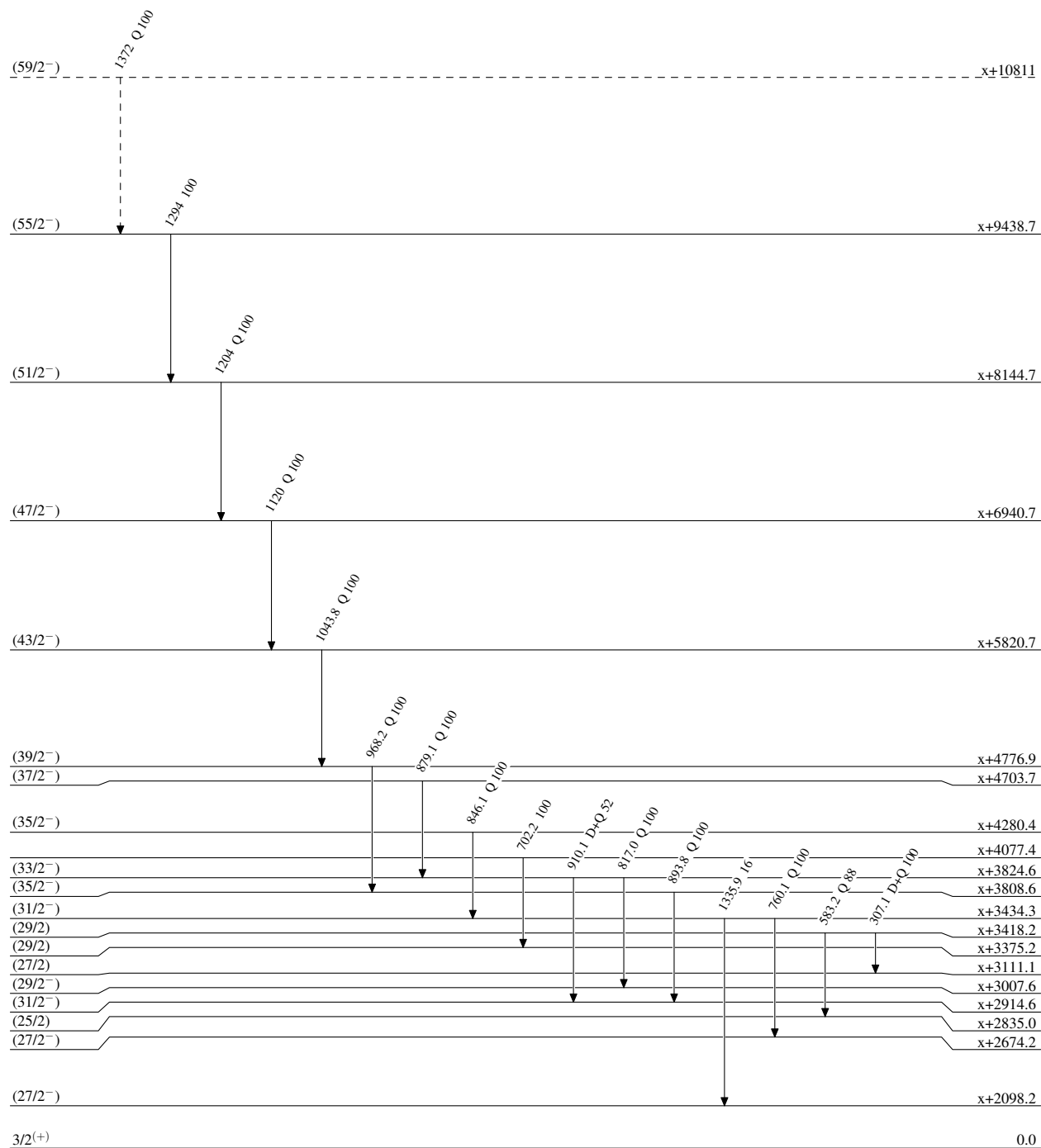
^d Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

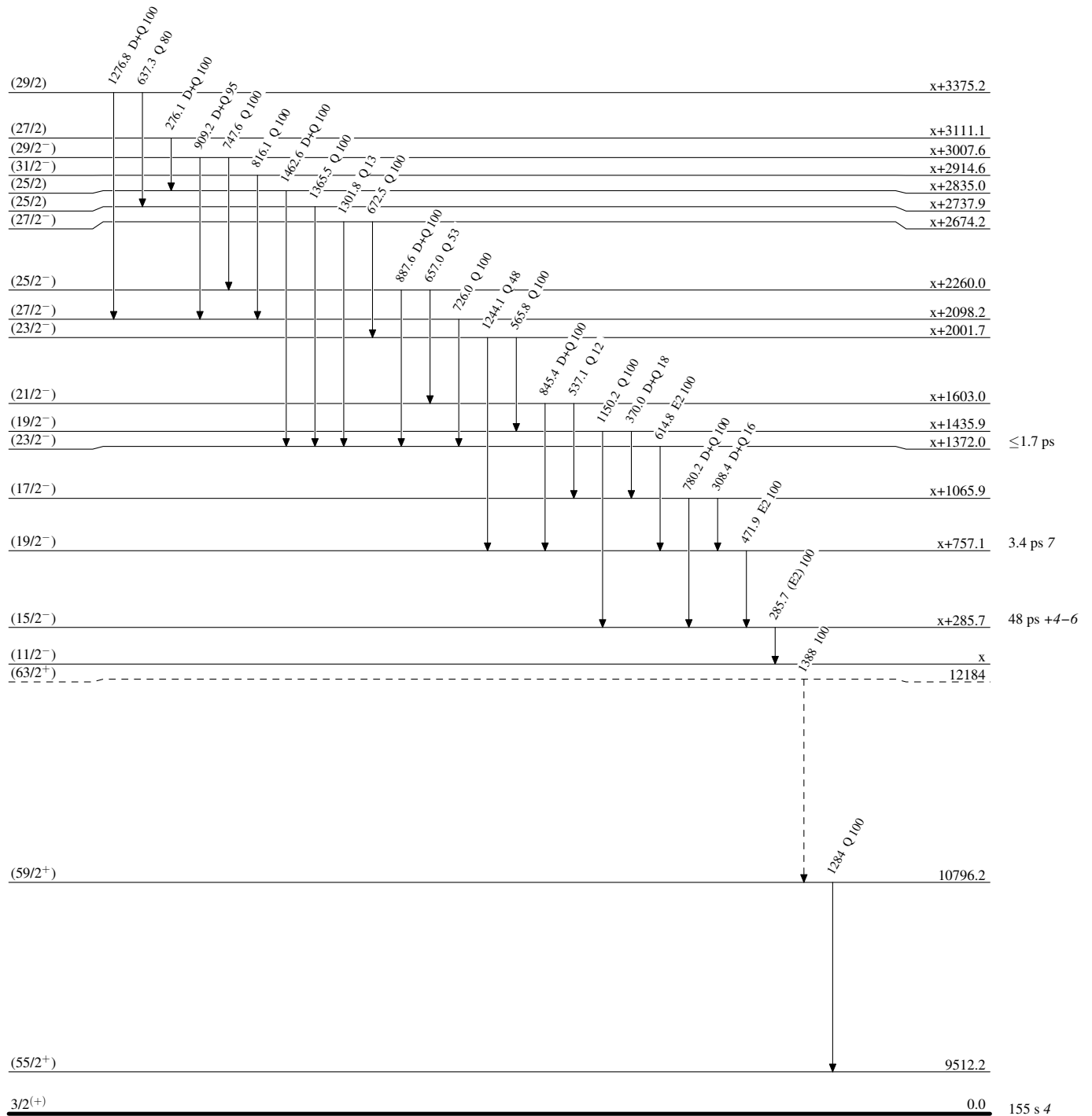
-----► γ Decay (Uncertain)

Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

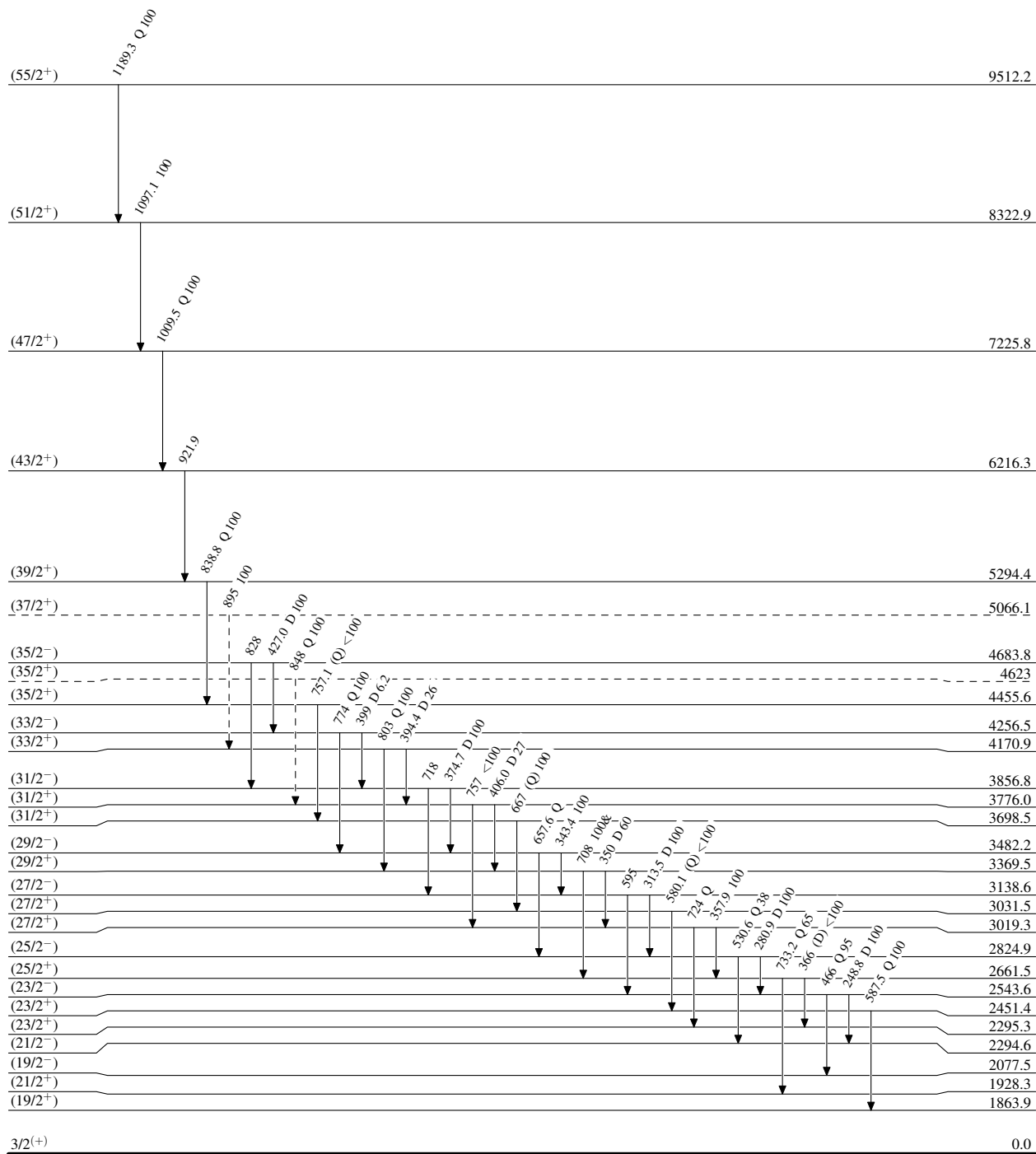
-----► γ Decay (Uncertain)

Adopted Levels, Gammas

Legend

Level Scheme (continued)

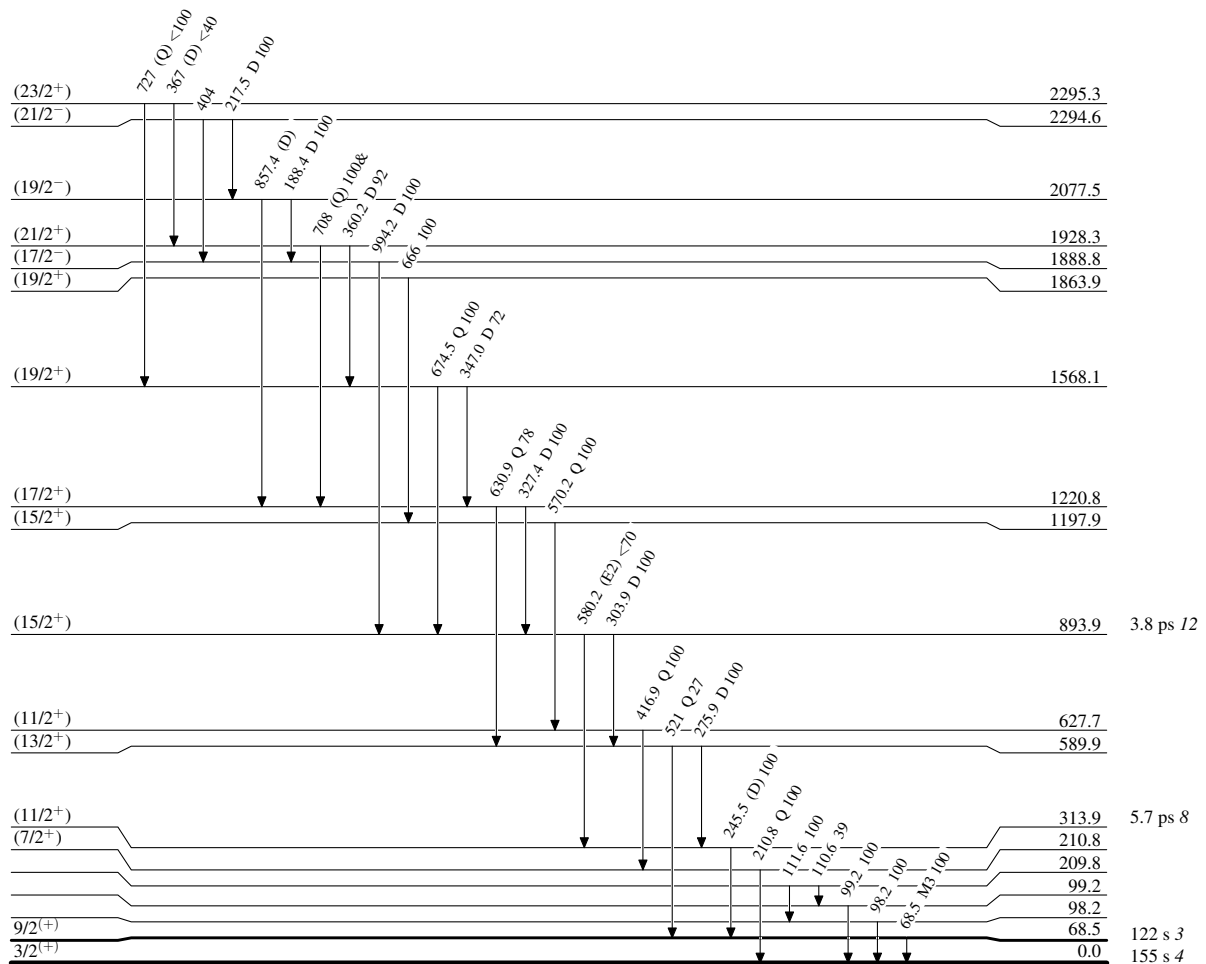
Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

-----► γ Decay (Uncertain)

155 s 4

Adopted Levels, Gammas**Level Scheme (continued)**

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

 $^{121}_{55}\text{Cs}_{66}$

Adopted Levels, Gammas**Band(A): Decoupled band
on $h_{11/2}$**

(59/2 ⁻)	x+10811
1372	
(55/2 ⁻)	x+9438.7
1294	
(51/2 ⁻)	x+8144.7
1204	
(47/2 ⁻)	x+6940.7
1120	
(43/2 ⁻)	x+5820.7
1044	
(39/2 ⁻)	x+4776.9
968	
(35/2 ⁻)	x+3808.6
894	
(31/2 ⁻)	x+2914.6
816	
(27/2 ⁻)	x+2098.2
726	
(23/2 ⁻)	x+1372.0
615	x+757.1
(19/2 ⁻)	
472	x+285.7
(15/2 ⁻)	
286	x
(11/2 ⁻)	

Band(B): 3/2⁺ [422]

(63/2 ⁺)	12184
1388	
(59/2 ⁺)	10796.2
1284	
(55/2 ⁺)	9512.2
1189	
(51/2 ⁺)	8322.9
1097	
(47/2 ⁺)	7225.8
1010	
(43/2 ⁺)	6216.3
922	
(39/2 ⁺)	5294.4
839	
(35/2 ⁺)	4455.6
757	
(31/2 ⁺)	3698.5
667	
(27/2 ⁺)	3031.5
580	
(23/2 ⁺)	2451.4
588	
(19/2 ⁺)	1863.9
666	
(15/2 ⁺)	1197.9
570	
(11/2 ⁺)	627.7
417	
(7/2 ⁺)	210.8
211	0.0

Band(C): 9/2⁺ [404]

(37/2 ⁺)	5066.1
(35/2 ⁺)	4623
(33/2 ⁺)	4170.9
(31/2 ⁺)	3776.0
(29/2 ⁺)	3369.5
(27/2 ⁺)	3019.3
(25/2 ⁺)	2661.5
(23/2 ⁺)	2295.3
(21/2 ⁺)	1928.3
(19/2 ⁺)	1568.1
(17/2 ⁺)	1220.8
(15/2 ⁺)	893.9
(13/2 ⁺)	589.9
(11/2 ⁺)	313.9
9/2 ⁺	68.5

Adopted Levels, Gammas (continued)