

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Katakura	NDS 112,495 (2011)	1-Jan-2010

Q(β^-)=-5.91×10³ 3; S(n)=8651 17; S(p)=5227 14; Q(α)=387 15 [2012Wa38](#)

Note: Current evaluation has used the following Q record -5909 288649 175226 14380 16 [2009AuZZ](#).

Q(ϵ p)=703 11 ([2009AuZZ](#)).

An isomer with β^+ endpoint energy of 4.5 MeV 3 and half-life of 8 min 1 was observed ([1968Da09](#)). But no 8 min component was observed in the 5-200-keV γ energy region ([1975Ar31](#)).

¹²⁵Ba Levels

Band(C,D) 3-Q(g.s.) band built on d_{5/2} band.

Cross Reference (XREF) Flags

- A ¹⁰⁰Mo(²⁹Si,4n γ), ¹¹⁶Sn(¹²C,3n γ)
- B ¹²⁵La ϵ decay
- C ⁶⁴Ni(⁶⁴Ni,3n γ)

E(level) [‡]	J ^{π}	T _{1/2}	XREF	Comments
0.0	1/2 ⁽⁺⁾	3.3 min 3	B	$\% \epsilon + \% \beta^+ = 100$ $\mu = +0.177$ 12 J ^{π} : From collinear fast-beam LASER spectroscopy (1983Mu12); systematics. T _{1/2} : Weighted average of 3.5 min 4 (1975Ar31) and 3.0 min 5 (1968Da09). μ : From collinear fast-beam LASER spectroscopy (1983Mu12). See also 2005St24 compilation. $\langle r^2 \rangle^{1/2} = 4.818$ fm 5 (2004An14 , evaluation).
0.0+x [#]	(5/2 ⁺)		ABC	$\mu = +0.1736$ 10 Additional information 1. μ : From collinear fast-beam LASER spectroscopy (1992Da06). See also 2005St24 compilation.
43.69 13	(3/2 ⁺)	0.7 ns 2	B	J ^{π} : M1(+E2) γ to 1/2 ⁽⁺⁾ . T _{1/2} : From centroid shift (2002Sh01).
67.7+x ^a 4	(7/2 ⁻)	2.76 μ s 14	ABC	T _{1/2} : From decay curve of 68-keV γ (2002Sh01). J ^{π} : From E1 γ to (5/2 ⁺).
166.4+x ^{&} 4	(9/2 ⁻)		ABC	
168.62+x [@] 9	(7/2 ⁺)		ABC	
237.40 10	(5/2 ⁺)		B	J ^{π} : From (E2) γ to 1/2 ⁽⁺⁾ .
300.4+x ^a 4	(11/2 ⁻)		ABC	
325.90 13	(7/2 ⁺)		B	J ^{π} : From (E2) γ to 3/2 ⁽⁺⁾ .
384.92+x [#] 11	(9/2 ⁺)		ABC	
572.9+x ^{&} 4	(13/2 ⁻)		A C	
639.43+x [@] 12	(11/2 ⁺)		A C	
651.40 14			B	
688.0+x 4			B	
702.4+x 4			B	
735.5+x 4			B	
751.1+x ^a 4	(15/2 ⁻)		A C	
753.6+x 4			B	
763.31 17			B	
841.9+x 4			B	
910.4+x 7			B	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) ^{125}Ba Levels (continued)

E(level) [‡]	J ^π [†]	XREF	E(level) [‡]	J ^π [†]	XREF	E(level) [‡]	J ^π [†]	XREF
931.29+x [#] 17	(13/2 ⁺)	A C	2678.8+x [@] 6	(23/2 ⁺)	A C	4747.7+x ^a 12	(35/2 ⁺)	A
1163.1+x ^{&} 4	(17/2 ⁻)	A C	2747.7+x ^{&} 4	(25/2 ⁻)	A C	4964.8+x ^b 10	(37/2 ⁻)	A
1242.8+x ^c 4	(15/2 ⁻)	A	2911.6+x ^a 5	(27/2 ⁻)	A C	5154.7+x 15	(37/2 ⁺)	A
1253.00+x [@] 21	(15/2 ⁺)	A C	2942.7+x [#] 7	(25/2 ⁺)	A C	5458.3+x ^b 11	(39/2 ⁻)	A
1284.20 14		B	3222.7+x [@] 7	(27/2 ⁺)	A C	5607.7+x 16	(39/2 ⁺)	A
1311.10 16		B	3532.8+x ^b 7	(29/2 ⁻)	A	5928.5+x ^b 12	(41/2 ⁻)	A
1354.8+x ^a 4	(19/2 ⁻)	A C	3554.7+x [#] 9	(29/2 ⁺)	A C	6467.5+x ^b 13	(43/2 ⁻)	A
1603.45+x [#] 24	(17/2 ⁺)	A C	3693.7+x ^{&} 11	(29/2 ⁺)	C	6679.7+x 19	(43/2 ⁺)	A
1803.2+x ^c 4	(19/2 ⁻)	A	3769.7+x ^a 7	(31/2 ⁻)	A C	7021.5+x ^b 14	(45/2 ⁻)	A
1901.5+x ^{&} 4	(21/2 ⁻)	A C	3873.7+x [@] 10	(31/2 ⁺)	A C	7574.5+x ^b 16	(47/2 ⁻)	A
1970.4+x [@] 5	(19/2 ⁺)	A C	3912.9+x ^b 8	(31/2 ⁻)	A	7800.7+x 21	(47/2 ⁺)	A
2085.8+x ^a 4	(23/2 ⁻)	A C	4168.9+x ^b 8	(33/2 ⁻)	A	8201.5+x ^b 17	(49/2 ⁻)	A
2350.4+x [#] 6	(21/2 ⁺)	A C	4291.7+x 11	(33/2 ⁺)	A	8760.5+x ^b 19	(51/2 ⁻)	A
2402.3+x ^c 5	(23/2 ⁻)	A	4565.6+x ^b 8	(35/2 ⁻)	A	9946.5+x ^b 22	(55/2 ⁻)	A
2474.1+x 8	(21/2 ⁺)	A	4668.7+x 12	(35/2 ⁺)	A	11178.5+x ^b 24	(59/2 ⁻)	A

[†] From $\gamma(\theta)$ in $^{116}\text{Sn}(^{12}\text{C},3n\gamma)$, $^{100}\text{Mo}(^{29}\text{Si},4n\gamma)$, systematics and band structure, unless otherwise noted.

[‡] From a least-squares fit to the adopted $E\gamma$'s.

[#] Band(A): $d_{5/2}$ qp band, $5/2^+$ band head, $\alpha=+1/2$.

[@] Band(B): $d_{5/2}$ qp band, $7/2^+$ band head, $\alpha=-1/2$.

[&] Band(C): $h_{11/2}$ qp band-1, $9/2^-$ band head, $\alpha=+1/2$.

^a Band(D): $h_{11/2}$ qp band-1, $7/2^-$ band head, $\alpha=-1/2$.

^b Band(E): 3-Q(g.s.) band built on $h_{11/2}$ band.

^c Band(F): $h_{11/2}$ qp band-2.

Adopted Levels, Gammas (continued)

$\gamma(^{125}\text{Ba})$									
$E_i(\text{level})$	J_i^π	E_γ †‡	I_γ	E_f	J_f^π	Mult. @	δ	α &	Comments
43.69	(3/2 ⁺)	43.6 5	100 ‡	0.0+x	(5/2 ⁺)	M1(+E2)	<1.2	20 10	$\alpha(\text{K})=8.9$ 5; $\alpha(\text{L})=9$ 8; $\alpha(\text{M})=2.0$ 17; $\alpha(\text{N+..})=0.5$ 4 $\alpha(\text{N})=0.4$ 4; $\alpha(\text{O})=0.05$ 5; $\alpha(\text{P})=0.00056$ 7 E_γ : From ¹²⁵ La ϵ decay. Mult.: from I(γ)/I(K x ray) in coincidence spectra (1989IiZZ,2002Sh01).
67.7+x	(7/2 ⁻)	67.6 5	100 ‡	0.0+x	(5/2 ⁺)	E1		0.668 17	B(E1)(W.u.)= 3.17×10^{-7} 18 $\alpha(\text{K})=0.567$ 14; $\alpha(\text{L})=0.0808$ 21; $\alpha(\text{M})=0.0166$ 5; $\alpha(\text{N+..})=0.00403$ 11 $\alpha(\text{N})=0.00350$ 9; $\alpha(\text{O})=0.000504$ 13; $\alpha(\text{P})=2.79 \times 10^{-5}$ 7 E_γ : From ¹²⁵ La ϵ decay. Mult.: from I(γ)/I(K x ray) in coincidence spectra (1989IiZZ,2002Sh01).
166.4+x	(9/2 ⁻)	98.8 1	100	67.7+x	(7/2 ⁻)	M1+E2		1.5 5	$\alpha(\text{K})=1.07$ 20; $\alpha(\text{L})=0.35$ 24; $\alpha(\text{M})=0.08$ 6; $\alpha(\text{N+..})=0.018$ 13 $\alpha(\text{N})=0.016$ 11; $\alpha(\text{O})=0.0022$ 14; $\alpha(\text{P})=5.77 \times 10^{-5}$ 9
168.62+x	(7/2 ⁺)	168.6 1	100	0.0+x	(5/2 ⁺)	(M1)		0.228	$\alpha(\text{K})=0.195$ 3; $\alpha(\text{L})=0.0260$ 4; $\alpha(\text{M})=0.00536$ 8; $\alpha(\text{N+..})=0.001346$ 19 $\alpha(\text{N})=0.001156$ 17; $\alpha(\text{O})=0.0001769$ 25; $\alpha(\text{P})=1.285 \times 10^{-5}$ 19
237.40	(5/2 ⁺)	193.7 1	90 ‡	43.69	(3/2 ⁺)	M1+E2		0.174 19	$\alpha(\text{K})=0.141$ 8; $\alpha(\text{L})=0.026$ 9; $\alpha(\text{M})=0.0055$ 19; $\alpha(\text{N+..})=0.0013$ 5 $\alpha(\text{N})=0.0012$ 4; $\alpha(\text{O})=0.00017$ 5; $\alpha(\text{P})=8.3 \times 10^{-6}$ 5
		237.4 1	100 ‡	0.0	1/2 ⁽⁺⁾	(E2)		0.0968	$\alpha(\text{K})=0.0769$ 11; $\alpha(\text{L})=0.01577$ 23; $\alpha(\text{M})=0.00335$ 5; $\alpha(\text{N+..})=0.000810$ 12 $\alpha(\text{N})=0.000706$ 10; $\alpha(\text{O})=9.98 \times 10^{-5}$ 14; $\alpha(\text{P})=4.20 \times 10^{-6}$ 6
300.4+x	(11/2 ⁻)	134.0 1	100 5	166.4+x	(9/2 ⁻)	M1+E2		0.56 13	$\alpha(\text{K})=0.43$ 6; $\alpha(\text{L})=0.10$ 6; $\alpha(\text{M})=0.022$ 12; $\alpha(\text{N+..})=0.005$ 3 $\alpha(\text{N})=0.0047$ 25; $\alpha(\text{O})=0.0006$ 4; $\alpha(\text{P})=2.41 \times 10^{-5}$ 5 I_γ : From ¹¹⁶ Sn(¹² C,3n γ), ¹⁰⁰ Mo(²⁹ Si,4n γ). ¹²⁵ La ϵ decay gives 23.4.
		232.7 1	17.4 21	67.7+x	(7/2 ⁻)				
325.90	(7/2 ⁺)	88.5 1	9.1 ‡	237.40	(5/2 ⁺)				
		282.1 1	100 ‡	43.69	(3/2 ⁺)	(E2)		0.0550	$\alpha(\text{K})=0.0445$ 7; $\alpha(\text{L})=0.00832$ 12; $\alpha(\text{M})=0.001759$ 25; $\alpha(\text{N+..})=0.000428$ 6 $\alpha(\text{N})=0.000372$ 6; $\alpha(\text{O})=5.33 \times 10^{-5}$ 8; $\alpha(\text{P})=2.50 \times 10^{-6}$ 4
384.92+x	(9/2 ⁺)	216.3 1	100 6	168.62+x	(7/2 ⁺)	M1+E2		0.124 9	$\alpha(\text{K})=0.101$ 3; $\alpha(\text{L})=0.018$ 5; $\alpha(\text{M})=0.0037$ 11; $\alpha(\text{N+..})=0.00092$ 24 $\alpha(\text{N})=0.00080$ 22; $\alpha(\text{O})=0.00012$ 3; $\alpha(\text{P})=6.0 \times 10^{-6}$ 5 I_γ : From ¹¹⁶ Sn(¹² C,3n γ), ¹⁰⁰ Mo(²⁹ Si,4n γ). ¹²⁵ La ϵ decay gives 41.2.
		385.0 2	8.4 17	0.0+x	(5/2 ⁺)				
572.9+x	(13/2 ⁻)	272.4 1	100 5	300.4+x	(11/2 ⁻)	D+Q			
		406.5 1	49.4 25	166.4+x	(9/2 ⁻)	(Q)			
639.43+x	(11/2 ⁺)	254.5 1	100 7	384.92+x	(9/2 ⁺)	D+Q			
		470.8 1	95 13	168.62+x	(7/2 ⁺)	Q			

Adopted Levels, Gammas (continued)

$\gamma(^{125}\text{Ba})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger\dagger}$	I_γ	E_f	J_f^π	Mult. @	$\alpha\&$	Comments
651.40		414.0 1	100 †	237.40	(5/2 ⁺)			
688.0+x		521.6 1	100 †	166.4+x	(9/2 ⁻)			
702.4+x		634.7 1	100 †	67.7+x	(7/2 ⁻)			
735.5+x		569.1 1	100 †	166.4+x	(9/2 ⁻)			
751.1+x	(15/2 ⁻)	178.1 1	34.9 24	572.9+x	(13/2 ⁻)	D+Q		
		450.7 1	100 5	300.4+x	(11/2 ⁻)	(Q)		
753.6+x		685.9 1	100 †	67.7+x	(7/2 ⁻)			
763.31		111.9 1	†	651.40				
		526.0 5	†	237.40	(5/2 ⁺)			
841.9+x		675.5 1	†	166.4+x	(9/2 ⁻)			
		774.1 1	†	67.7+x	(7/2 ⁻)			
910.4+x		610.0 5	100 †	300.4+x	(11/2 ⁻)			
931.29+x	(13/2 ⁺)	291.7 2	38 5	639.43+x	(11/2 ⁺)	D+Q		
		546.5 ^a 2	≤100	384.92+x	(9/2 ⁺)			
		631		300.4+x	(11/2 ⁻)	(E1)	0.00193 3	$\alpha(\text{K})=0.001672$ 24; $\alpha(\text{L})=0.000208$ 3; $\alpha(\text{M})=4.26\times 10^{-5}$ 6; $\alpha(\text{N}+..)=1.068\times 10^{-5}$ 15 $\alpha(\text{N})=9.18\times 10^{-6}$ 13; $\alpha(\text{O})=1.401\times 10^{-6}$ 20; $\alpha(\text{P})=1.010\times 10^{-7}$ 15
1163.1+x	(17/2 ⁻)	412.1 1	100 8	751.1+x	(15/2 ⁻)	(D+Q)		
		590.2 1	89 14	572.9+x	(13/2 ⁻)	(Q)		
1242.8+x	(15/2 ⁻)	669.9 1	100	572.9+x	(13/2 ⁻)	D+Q		
1253.00+x	(15/2 ⁺)	321.7 2	72 11	931.29+x	(13/2 ⁺)	D+Q		
		613.7 3	100 18	639.43+x	(11/2 ⁺)	Q		
		680		572.9+x	(13/2 ⁻)	(E1)	0.001648 23	$\alpha(\text{K})=0.001425$ 20; $\alpha(\text{L})=0.0001772$ 25; $\alpha(\text{M})=3.62\times 10^{-5}$ 5; $\alpha(\text{N}+..)=9.08\times 10^{-6}$ $\alpha(\text{N})=7.80\times 10^{-6}$ 11; $\alpha(\text{O})=1.191\times 10^{-6}$ 17; $\alpha(\text{P})=8.62\times 10^{-8}$ 12
1284.20		958.2 1	†	325.90	(7/2 ⁺)			
		1240.6 1	†	43.69	(3/2 ⁺)			
1311.10		985.2 1	100 †	325.90	(7/2 ⁺)			
1354.8+x	(19/2 ⁻)	191.6 2	11.7 20	1163.1+x	(17/2 ⁻)			
		603.6 2	100 15	751.1+x	(15/2 ⁻)	Q		
1603.45+x	(17/2 ⁺)	350.5 2	41 10	1253.00+x	(15/2 ⁺)	D+Q		
		672.1 3	100 18	931.29+x	(13/2 ⁺)	Q		
		852		751.1+x	(15/2 ⁻)	(E1)	0.001038 15	$\alpha(\text{K})=0.000899$ 13; $\alpha(\text{L})=0.0001109$ 16; $\alpha(\text{M})=2.27\times 10^{-5}$ 4; $\alpha(\text{N}+..)=5.68\times 10^{-6}$ $\alpha(\text{N})=4.88\times 10^{-6}$ 7; $\alpha(\text{O})=7.47\times 10^{-7}$ 11; $\alpha(\text{P})=5.46\times 10^{-8}$ 8
1803.2+x	(19/2 ⁻)	560.3 2	100 16	1242.8+x	(15/2 ⁻)	Q		
		640.2 2	48 10	1163.1+x	(17/2 ⁻)	D+Q		

Adopted Levels, Gammas (continued)

$\gamma(^{125}\text{Ba})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\dagger\ddagger}$	I_γ	E_f	J_f^π	Mult. @	$\alpha\&$	Comments
1901.5+x	(21/2 ⁻)	546.5 ^a 2	100 15	1354.8+x	(19/2 ⁻)			
		738.5 2	95 13	1163.1+x	(17/2 ⁻)	Q		
1970.4+x	(19/2 ⁺)	367		1603.45+x	(17/2 ⁺)			
		717.3 [#] 5	100 12	1253.00+x	(15/2 ⁺)	Q		
		807		1163.1+x	(17/2 ⁻)	(E1)	0.001157 17	$\alpha(\text{K})=0.001002$ 14; $\alpha(\text{L})=0.0001238$ 18; $\alpha(\text{M})=2.53\times 10^{-5}$ 4; $\alpha(\text{N}+..)=6.34\times 10^{-6}$ $\alpha(\text{N})=5.45\times 10^{-6}$ 8; $\alpha(\text{O})=8.34\times 10^{-7}$ 12; $\alpha(\text{P})=6.08\times 10^{-8}$ 9
2085.8+x	(23/2 ⁻)	184.2 2	7.5 18	1901.5+x	(21/2 ⁻)			
		731.1 2	100 12	1354.8+x	(19/2 ⁻)	Q		
2350.4+x	(21/2 ⁺)	380		1970.4+x	(19/2 ⁺)			
		747		1603.45+x	(17/2 ⁺)			
		996		1354.8+x	(19/2 ⁻)	(E1)	0.000767 11	$\alpha(\text{K})=0.000665$ 10; $\alpha(\text{L})=8.16\times 10^{-5}$ 12; $\alpha(\text{M})=1.666\times 10^{-5}$ 24; $\alpha(\text{N}+..)=4.18\times 10^{-6}$ $\alpha(\text{N})=3.59\times 10^{-6}$ 5; $\alpha(\text{O})=5.50\times 10^{-7}$ 8; $\alpha(\text{P})=4.05\times 10^{-8}$ 6
2402.3+x	(23/2 ⁻)	599.1 2	100	1803.2+x	(19/2 ⁻)	Q		
2474.1+x	(21/2 ⁺)	871		1603.45+x	(17/2 ⁺)			
2678.8+x	(23/2 ⁺)	205		2474.1+x	(21/2 ⁺)			
		329		2350.4+x	(21/2 ⁺)			
		708		1970.4+x	(19/2 ⁺)			
		777		1901.5+x	(21/2 ⁻)	E1	0.001249 18	$\alpha(\text{K})=0.001081$ 16; $\alpha(\text{L})=0.0001338$ 19; $\alpha(\text{M})=2.73\times 10^{-5}$ 4; $\alpha(\text{N}+..)=6.86\times 10^{-6}$ $\alpha(\text{N})=5.89\times 10^{-6}$ 9; $\alpha(\text{O})=9.01\times 10^{-7}$ 13; $\alpha(\text{P})=6.56\times 10^{-8}$ 10
2747.7+x	(25/2 ⁻)	661.8 2	100 12	2085.8+x	(23/2 ⁻)	(D+Q)		
		846.2 2	43 8	1901.5+x	(21/2 ⁻)	(Q)		
2911.6+x	(27/2 ⁻)	163 1	20 13	2747.7+x	(25/2 ⁻)	(D+Q)		
		825.8 3	100 20	2085.8+x	(23/2 ⁻)	Q		
2942.7+x	(25/2 ⁺)	264		2678.8+x	(23/2 ⁺)			
		592		2350.4+x	(21/2 ⁺)			
		857		2085.8+x	(23/2 ⁻)			
3222.7+x	(27/2 ⁺)	280		2942.7+x	(25/2 ⁺)			
		475		2747.7+x	(25/2 ⁻)			
		544		2678.8+x	(23/2 ⁺)			
3532.8+x	(29/2 ⁻)	621 1	100 50	2911.6+x	(27/2 ⁻)	(D+Q)		
		785.3 7	47 25	2747.7+x	(25/2 ⁻)	(Q)		
3554.7+x	(29/2 ⁺)	332		3222.7+x	(27/2 ⁺)			
		612		2942.7+x	(25/2 ⁺)			
3693.7+x	(29/2 ⁺)	946		2747.7+x	(25/2 ⁻)			
3769.7+x	(31/2 ⁻)	236.9 7	8 5	3532.8+x	(29/2 ⁻)	(D+Q)		
		857.8 7	100 50	2911.6+x	(27/2 ⁻)	(Q)		
3873.7+x	(31/2 ⁺)	319		3554.7+x	(29/2 ⁺)			

Adopted Levels, Gammas (continued)

γ(¹²⁵Ba) (continued)

<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ^{†‡}</u>	<u>I_γ</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult. @</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ^{†‡}</u>	<u>E_f</u>	<u>J_f^π</u>
3873.7+x	(31/2 ⁺)	651		3222.7+x	(27/2 ⁺)		5458.3+x	(39/2 ⁻)	494	4964.8+x	(37/2 ⁻)
3912.9+x	(31/2 ⁻)	380		3532.8+x	(29/2 ⁻)			892	4565.6+x	4565.6+x	(35/2 ⁻)
		1002		2911.6+x	(27/2 ⁻)		5607.7+x	(39/2 ⁺)	939	4668.7+x	(35/2 ⁺)
4168.9+x	(33/2 ⁻)	256		3912.9+x	(31/2 ⁻)		5928.5+x	(41/2 ⁻)	470	5458.3+x	(39/2 ⁻)
		399 1	100 50	3769.7+x	(31/2 ⁻)	D+Q		964	4964.8+x	4964.8+x	(37/2 ⁻)
		636.3 7	47 24	3532.8+x	(29/2 ⁻)		6467.5+x	(43/2 ⁻)	539	5928.5+x	(41/2 ⁻)
4291.7+x	(33/2 ⁺)	418		3873.7+x	(31/2 ⁺)			1009	5458.3+x	5458.3+x	(39/2 ⁻)
		737		3554.7+x	(29/2 ⁺)		6679.7+x	(43/2 ⁺)	1072	5607.7+x	(39/2 ⁺)
4565.6+x	(35/2 ⁻)	396.9 7	100 50	4168.9+x	(33/2 ⁻)	(D+Q)	7021.5+x	(45/2 ⁻)	554	6467.5+x	(43/2 ⁻)
		653		3912.9+x	(31/2 ⁻)			1093	5928.5+x	5928.5+x	(41/2 ⁻)
		795 1	43 22	3769.7+x	(31/2 ⁻)		7574.5+x	(47/2 ⁻)	1107	6467.5+x	(43/2 ⁻)
4668.7+x	(35/2 ⁺)	377		4291.7+x	(33/2 ⁺)		7800.7+x	(47/2 ⁺)	1121	6679.7+x	(43/2 ⁺)
		795		3873.7+x	(31/2 ⁺)		8201.5+x	(49/2 ⁻)	1180	7021.5+x	(45/2 ⁻)
4747.7+x	(35/2 ⁺)	978		3769.7+x	(31/2 ⁻)		8760.5+x	(51/2 ⁻)	1186	7574.5+x	(47/2 ⁻)
4964.8+x	(37/2 ⁻)	400 1		4565.6+x	(35/2 ⁻)		9946.5+x	(55/2 ⁻)	1186	8760.5+x	(51/2 ⁻)
		796 1		4168.9+x	(33/2 ⁻)		11178.5+x	(59/2 ⁻)	1232	9946.5+x	(55/2 ⁻)
5154.7+x	(37/2 ⁺)	863		4291.7+x	(33/2 ⁺)						

† From ¹¹⁶Sn(¹²C,3nγ),¹⁰⁰Mo(²⁹Si,4nγ), unless otherwise noted.

‡ From ¹²⁵La ε decay.

Complex peak in ¹¹⁶Sn(¹²C,3nγ),¹⁰⁰Mo(²⁹Si,4nγ) reactions. E2 is assumed for quadrupole transitions, and M1+E2 is assumed for significant mixture of dipole and quadrupole transitions.

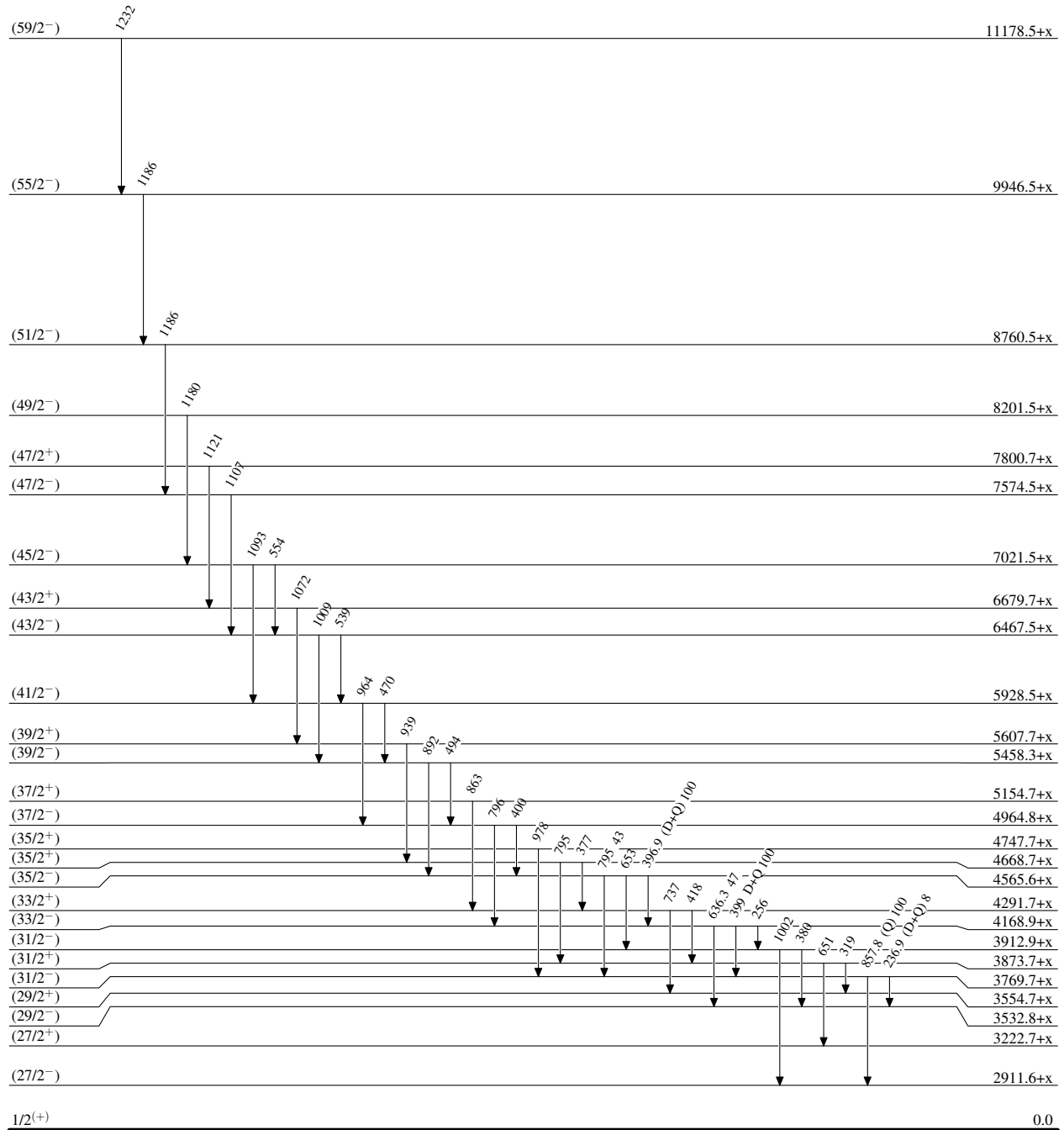
@ From α(K)exp in ¹²⁵La ε decay and γ(θ) in ¹¹⁶Sn(¹²C,3nγ),¹⁰⁰Mo(²⁹Si,4nγ), unless otherwise noted.

& 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.

^a Multiply placed.

Adopted Levels, Gammas**Level Scheme**

Intensities: Relative photon branching from each level

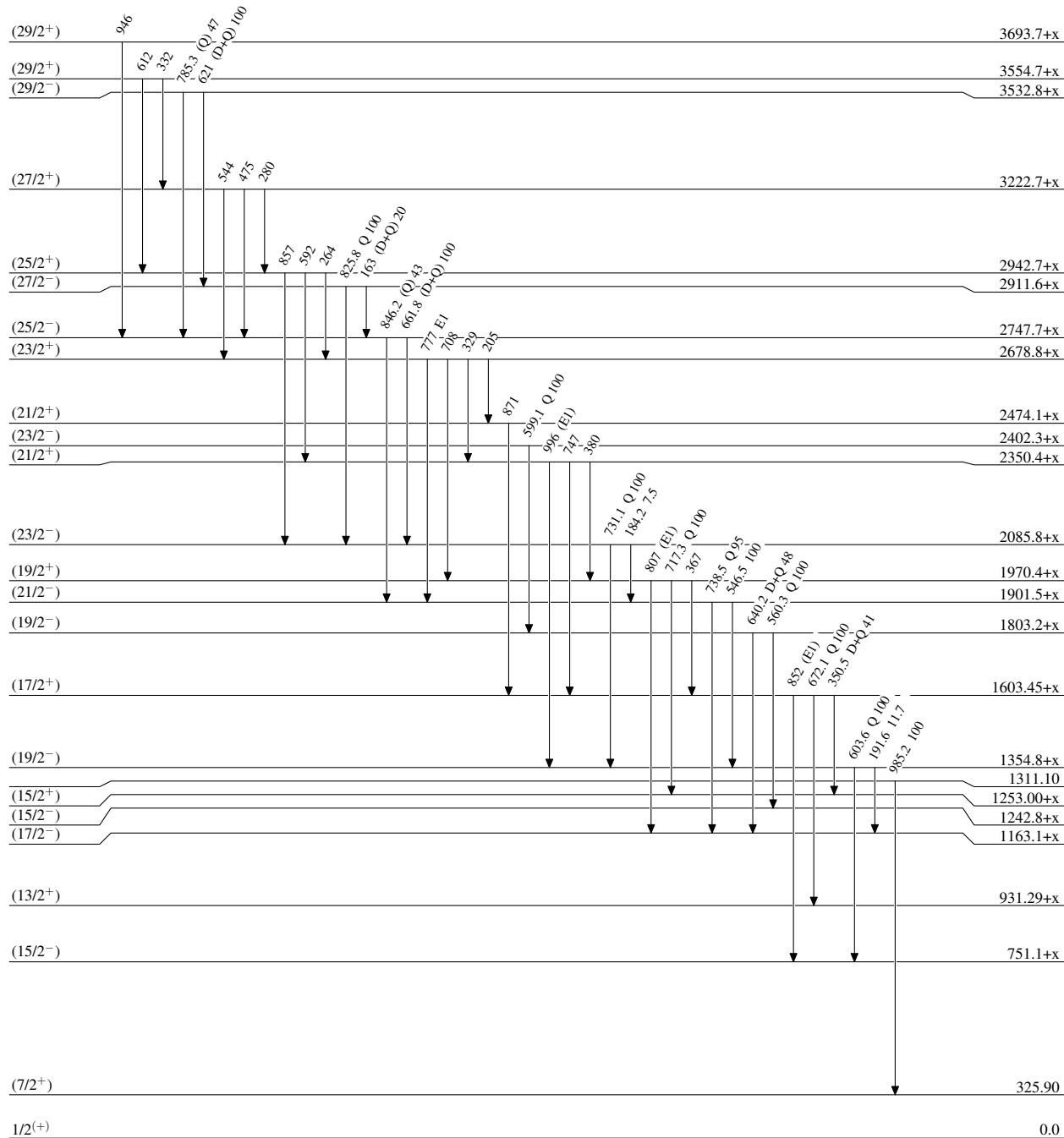


3.3 min 3

Adopted Levels, Gammas

Level Scheme (continued)

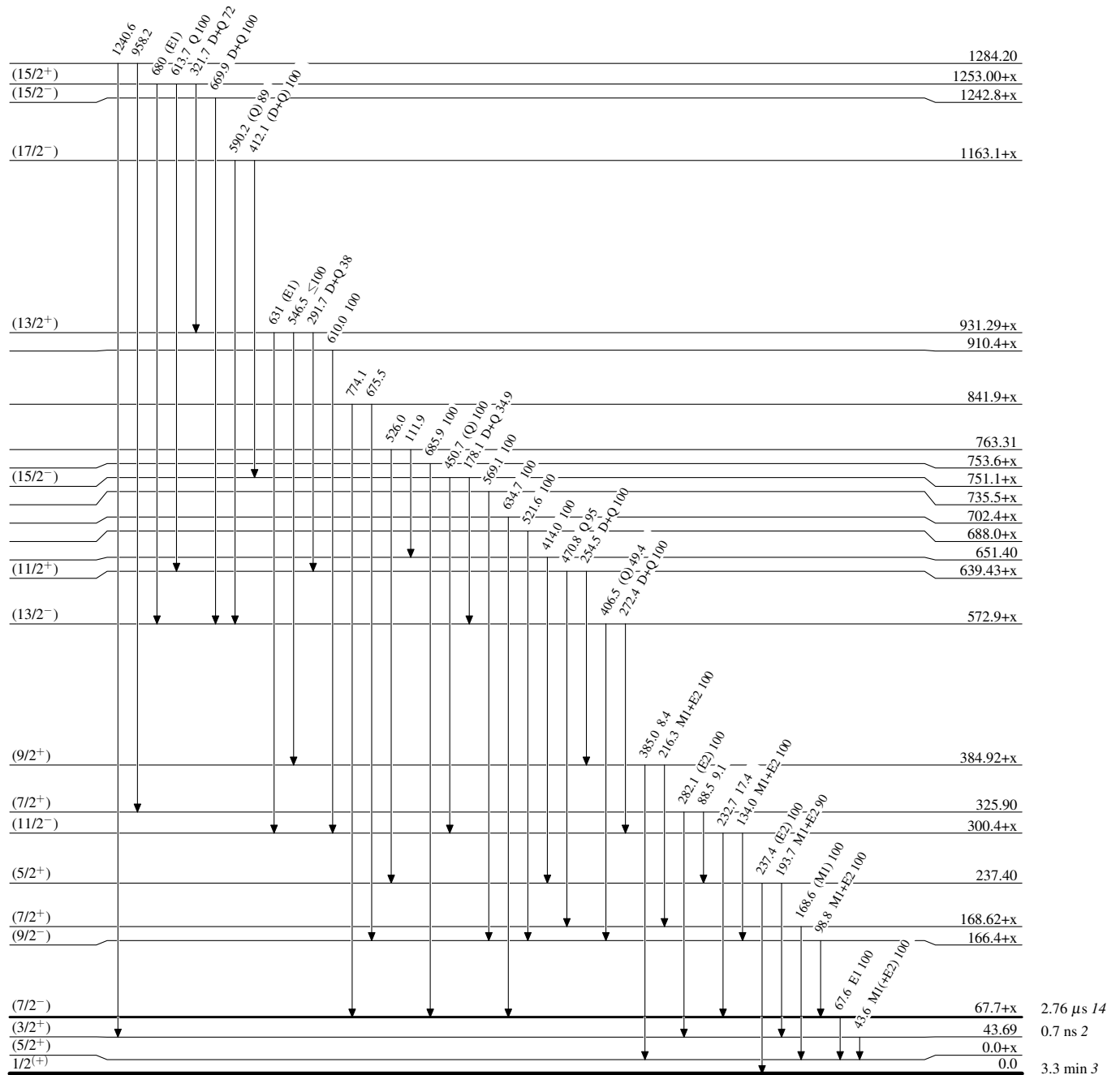
Intensities: Relative photon branching from each level



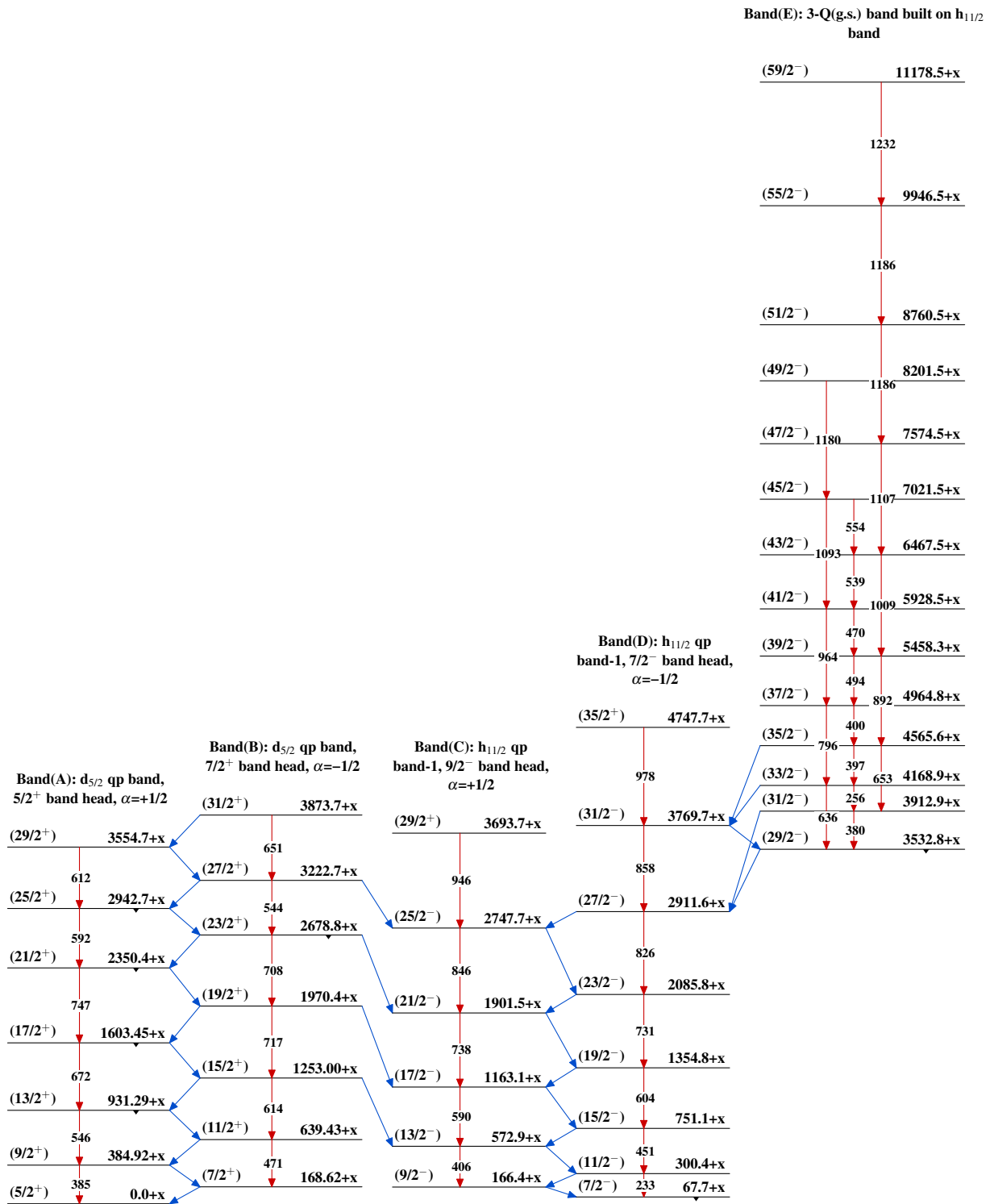
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{125}_{56}\text{Ba}_{69}$

Adopted Levels, Gammas $^{125}_{56}\text{Ba}_{69}$

Adopted Levels, Gammas (continued)