

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS	108,2173 (2007)	1-Oct-2006

$Q(\beta^-)=-580.5$ 17; $S(n)=6905.63$ 7; $S(p)=8671.5$ 19; $Q(\alpha)=-2502.8$ 25 [2012Wa38](#)

Note: Current evaluation has used the following Q record.

$Q(\beta^-)=-621$ 13; $S(n)=6905.61$ 8; $S(p)=8671.5$ 19; [2003Au03](#)

Others:

Isomeric yield: $^{138}\text{Ba}(\gamma,n)$ ([1995Ma78,1996Be32](#)), $^{139}\text{La}(n,t)$ ([1994Hu19](#)), $^{138}\text{Ba}(n,2n)$ ([1994Gr35](#));

Isotope shift: [1993Vi10](#).

[2006AnZZ](#): Measured relative excitation of isomer and gs via deexcitation of giant dipole resonance excited in $^{138}\text{Ba}(\gamma,n)$. Other: [2005AnZX](#).

 ^{137}Ba LevelsCross Reference (XREF) Flags

A	^{137}Cs β^- decay	E	$^{136}\text{Ba}(n,\gamma)$ E=thermal	I	Coulomb excitation
B	^{137}Ba IT decay (2.552 min)	F	$^{136}\text{Ba}(d,p)$	J	$^{138}\text{Ba}(p,d)$
C	^{137}La ε decay	G	$^{137}\text{Ba}(\gamma,\gamma')$		
D	$^{136}\text{Xe}(\alpha,3n\gamma)$	H	$^{137}\text{Ba}(n,n'\gamma)$		

E(level) [†]	J^π [‡]	$T_{1/2}$	XREF	Comments
0.0	$3/2^+$	stable	ABCDEFGHIJ	$\mu=+0.935814$ 5 (2000Tr07) $\mu=+0.937365$ 20 (1972OI01,1989Ra17) $Q=+0.245$ 4 (1988We07,1989Ra17) J^π : atomic beam (1976Fu06), L=2 in (d,p), (p,d). Configuration= $(\nu 2d_{3/2})^{-1}$. μ : Others: $+0.937365$ 20 (1972OI01,1989Ra17), $+0.937344$ 20 (1978Lu07,1989Ra17). 2000Tr07 had mistakenly assigned the value to ^{135}Ba . Q : Others: $+0.228$ 24 (1976Ma28), $+0.25$ 1 (1986Si03), $+0.34$ 4 (1979Gu09), $+0.28$ 3 (1976Ma28). $\Delta\langle r^2 \rangle(^{137}\text{Ba}, ^{138}\text{Ba})=-0.066$ 5 (1999GaZX).
283.54 [#] 4	$1/2^+$		A EF HIJ	B(E2)=0.025 2 from Coul. ex. J^π : L=0 in (p,d) and (d,p) Configuration= $(\nu 3s_{1/2})^{-1}$. %IT=100 $\mu=-0.992$ 26 (1983Mu12,1989Ra17) $Q=+0.78$ 9 (1983Mu12,1989Ra17) E(level): from ^{137}Cs β^- decay. $T_{1/2}$: weighted average of 2.5545 min 21 (1973LeZJ), 2.5577 min 32 (1967Mi11), 2.5513 min 7 (1966Ma28), 2.554 min 2 (1965Me03). J^π : L=5 in (p,d); 661 γ is M4; $h_{11/2}$ intruder state. Q : Adopted value disagrees with $Q\approx-0.05$ (1976Fu06). %two-photon/%single-photon $<2.2\times 10^{-6}$ (1992Ba45).
661.659 3	$11/2^-$	2.552 min 1	AB DEFGH J	
907? 10			F	
1044? 10			F	
1251.82 8	$7/2^+$	0.354 ps 24	DE HI	J^π : from $\gamma(\theta)$ in Coul ex, E2 γ to $3/2^+$ g.s.. $T_{1/2}$: from B(E2) in Coul ex.
1293.90 8	$5/2^+$		EF HIJ	J^π : L=2 in (p,d); M1+E2 to $3/2^+$ g.s.; γ from $7/2^-$.
1463.8 6	$3/2^+$		EFGH J	J^π : L(p,d)=2, D to $1/2^+$.
1481.8 4	$(3/2^+, 5/2^+)$		E GH	J^π : feeds $1/2^+$ and $7/2^+$ levels.
1797.67 17	$7/2^-$		EF H	J^π : L(d,p)=3; E2 γ to $11/2^-$.
1837.6 7	$1/2^+$		EFGH J	J^π : L=0 in (d,p), (p,d).

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Adopted Levels, Gammas (continued)

¹³⁷Ba Levels (continued)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
1857? 10	(1/2 ⁺)		F	J ^π : L=(0) in (d,p).
1892.0 10			G	
1899.4 [#] 4	3/2 ⁺		EFGH j	J ^π : L=2 level in (p,d) is probably 1899+1908. Both are fed by primary transitions from 1/2 ⁺ capture state. The primary transition branching to both levels is not commensurate with E2 (1995Bo03).
1907.52 [#] 20	3/2 ⁺		EFGH j	J ^π : see 1899 level.
2041.4 6	(5/2 ⁺)		EFGH J	J ^π : L(p,d)=2; no primary transition from 1/2 ⁺ capture state (1995Bo03).
2047.4 3			D	J ^π : γ only to 11/2 ⁻ , γ from (13/2 ⁻).
2117.0 10			G	
2182.22 [#] 5	3/2 ⁻		EF	J ^π : L(d,p)=1; circular polarization of γ in (n,γ).
2228.9 4	7/2 ⁺		H J	J ^π : L=4 in (p,d), feeds 3/2 ⁺ .
2229.5 4	(13/2 ⁻)		D H	J ^π : stretched D to 11/2 ⁻ , no γ to 7/2 ⁺ or 7/2 ⁻ .
2271.0 4	(3/2 ⁺ ,5/2)		EF H	J ^π : feeds 3/2 ⁺ and 7/2 ⁺ . Absence in (p,d) should exclude Configuration=(ν g _{7/2}) ⁻¹ (1995Bo03).
2311.0 10			G	
2340 20	7/2 ⁺ ,9/2 ⁺		J	J ^π : L=4 in (p,d).
2344.0 10			G	
2349.1 5	(17/2 ⁻)	0.59 μs 10	D	J ^π : from 120γ(θ), E2 to (13/2 ⁻). T _{1/2} : from (α,3nγ).
2355.6 [#] 4	1/2,3/2		E	J ^π : feeds 1/2 ⁺ , 3/2 ⁺ levels, fed by primary transition.
2373.0 10			G	
2407.8 5			D	
2427.0 10			G	
2438.8? 3			D	J ^π : γ only to 11/2 ⁻ .
2529.6 6	7/2 ⁺		H J	J ^π : L=4 in (p,d), decays to 3/2 ⁺ .
2571.0 10			G	
2590.1 4			D	J ^π : γ to (13/2 ⁻).
2623.8 6	(19/2)	≤30 ns	D	J ^π : from 274γ(θ). T _{1/2} : from 1973Ke07.
2653.0 10			G	
2662.72 [#] 5	1/2 ⁻		EF J	J ^π : L=1 in (d,p), circular polarization of γ in (n,γ).
2709.0 10			FG	
2750 30			J	
2810? 20	(5/2 ⁻ ,7/2 ⁻)		F	J ^π : L=(3) in (d,p).
2848 20	5/2 ⁻ ,7/2 ⁻		F	J ^π : L=3 in (d,p).
2873.8 11	(5/2 ⁻)		EF H j	J ^π : L=3 in (d,p). 1995Bo03 suggest 5/2 on the basis of Iγ(n,n'γ)/Iγ(n,γ) for 1076γ.
2905.0 10	5/2 ⁻ ,7/2 ⁻		FG j	J ^π : L=3 in (d,p).
2954.0 10			G	
2964.9 [#] 4	1/2,3/2		E	
2990 30	7/2 ⁺ ,9/2 ⁺		J	J ^π : L(p,d)=4.
3008 20			F	
3037.0? 10			FG	
3074.0 10			G	
3086.1 [#] 4	1/2,3/2		E	
3094.0 10			G	
3127.42 [#] 12	1/2,3/2		E J	
3140.0 10			G	
3141 20	(9/2 ⁻)		F	J ^π : from L, S in (d,p).
3179.4 7			D	
3221.0 [#] 10	1/2,3/2		E J	
3228 20	5/2 ⁻ ,7/2 ⁻		F	J ^π : L(d,p)=3.
3244.0 7			D	

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Adopted Levels, Gammas (continued) ^{137}Ba Levels (continued)

E(level) [†]	J ^π [‡]	XREF	Comments
3251.0? 10		FG	
3279.0? 10		G	
3316.53 [#] 15	1/2 ⁻ , 3/2 ⁻	EF	J ^π : L(d,p)=1.
3332.0? 10	(5/2) ⁻	FG	J ^π : L(d,p)=3, S.
3383.0? 10		G	
3402.54 [#] 11	3/2 ⁻	EF	J ^π : L(d,p)=1; decays to 5/2 ⁺ .
3420? 20		J	
3453.0? 10		G	
3473.0? 10		G	
3496? 20	5/2 ⁻ , 7/2 ⁻	F	J ^π : L(d,p)=3.
3525.0? 10		G	
3550	7/2 ⁺ , 9/2 ⁺	J	J ^π : L(p,d)=4.
3563.0? 10		G	
3591? 20	5/2 ⁻ , 7/2 ⁻	F	J ^π : L(d,p)=3.
3606.1? [#] 10		EF	
3640.1? 10	5/2 ⁻ , 7/2 ⁻	FG	J ^π : L(d,p)=3.
3680.80 [#] 17	1/2 ⁻ , 3/2 ⁻	EF	J ^π : L(d,p)=1.
3703.1? 10	5/2 ⁻ , 7/2 ⁻	FG	J ^π : L(d,p)=3.
3720.9? [#] 4	1/2, 3/2	EF	
3761.1? 10		G	
3778.1? 10		FG	
3798.89 [#] 24	(1/2 ⁻ , 3/2 ⁻)	EFG	XREF: F(3805). J ^π : L(d,p)=(1).
3822.1? 10		G	
3827? 20	5/2 ⁻ , 7/2 ⁻	F	J ^π : L(d,p)=3.
3846.1? 10		G	
3850.3 [#] 7	1/2, 3/2	E G	
3857.1 [#] 10	1/2, 3/2	E G	
3894.1? 10		G	
3940.1? 10		G	
3963.1 [#] 10	1/2, 3/2	E	
3977.1 [#] 10	1/2, 3/2	E	
3981.1? 10		G	
4149.97 [#] 18	1/2 ⁺ , 3/2	E	J ^π : decays to 5/2 ⁺ .
4206.1 [#] 10	1/2, 3/2	E	
4216.10 [#] 15	1/2, 3/2	E	
4550.7 [#] 7	1/2, 3/2	E	
4594.9 [#] 7	1/2, 3/2	E	
4764.4 [#] 5	1/2, 3/2	E	

[†] E(level) for levels seen in (n,γ) or (n,n'γ) are from [1995Bo03](#).

[‡] Levels fed in primary transition from 1/2⁺ capture state in (n,γ) are assumed to be 1/2, 3/2, unless stated otherwise. J≤9/2 are mostly from L and S in (d,p) and (p,d); J≥13/2 are from γ(θ) in (α,3nγ), unless given otherwise. J populated via (γ,γ')≤5/2 or 7/2⁺.

[#] Level fed in primary cascade to g.s. or the first-excited state.

Adopted Levels, Gammas (continued)

E _i (level)	J ^π _i	E _γ [†]	I _γ [†]	E _f	J ^π _f	Mult.	γ(¹³⁷ Ba)		Comments
							α [‡]		
283.54	1/2 ⁺	283.53 4	100	0.0	3/2 ⁺				E _γ : from 1997WaZZ in (n,n'γ). 1997WaZZ in both (n,n'γ) and ¹³⁷ Cs β ⁻ decay and 1996Bi23 in ¹³⁷ Cs β ⁻ decay confirm this energy and did not find any evidence for a possible doublet at previously reported 279.96γ (1973Ke07,1973Ke22).
661.659	11/2 ⁻	661.657 3	100	0.0	3/2 ⁺	M4	0.1124		B(M4)(W.u.)=2.719 9; α(K)exp=0.0904 5 (1992Ne04) α(K)=0.0915 13; α(L)=0.01648 23; α(M)=0.00352 5; α(N+..)=0.000879 13 α(N)=0.000759 11; α(O)=0.0001134 16; α(P)=7.21×10 ⁻⁶ 11 E _γ : from 1995HeZZ.
1251.82	7/2 ⁺	1251.81 8	100	0.0	3/2 ⁺	E2	1.14×10 ⁻³		B(E2)(W.u.)=12.5 11 α(K)=0.000974 14; α(L)=0.0001245 18; α(M)=2.56×10 ⁻⁵ 4; α(N+..)=1.98×10 ⁻⁵ 3 α(N)=5.51×10 ⁻⁶ 8; α(O)=8.41×10 ⁻⁷ 12; α(P)=6.06×10 ⁻⁸ 9; α(IPF)=1.341×10 ⁻⁵ 19
1293.90	5/2 ⁺	1293.90 8	100	0.0	3/2 ⁺	M1+E2	0.00124 17		α(K)=0.00106 15; α(L)=0.000133 17; α(M)=2.7×10 ⁻⁵ 4; α(N+..)=2.70×10 ⁻⁵ 7 α(N)=5.9×10 ⁻⁶ 8; α(O)=9.0×10 ⁻⁷ 12; α(P)=6.7×10 ⁻⁸ 10; α(IPF)=2.02×10 ⁻⁵ 5
1463.8	3/2 ⁺	1180.6 1463.91	5 100	283.54 0.0	1/2 ⁺ 3/2 ⁺	D			
1481.8	(3/2 ⁺ ,5/2 ⁺)	230.0 [#] 4 1198.33 1481.66	 67 100	1251.82 283.54 0.0	7/2 ⁺ 1/2 ⁺ 3/2 ⁺				
1797.67	7/2 ⁻	504.0 1136.69	1.0 100	1293.90 661.659	5/2 ⁺ 11/2 ⁻	E2	1.38×10 ⁻³		α(K)=0.001187 17; α(L)=0.0001532 22; α(M)=3.15×10 ⁻⁵ 5; α(N+..)=9.25×10 ⁻⁶ 13 α(N)=6.77×10 ⁻⁶ 10; α(O)=1.033×10 ⁻⁶ 15; α(P)=7.37×10 ⁻⁸ 11; α(IPF)=1.370×10 ⁻⁶ 20
1837.6	1/2 ⁺	1553.64 1838.0	100 45	283.54 0.0	1/2 ⁺ 3/2 ⁺				
1892.0		1892		0.0	3/2 ⁺				
1899.4	3/2 ⁺	1615.8 1899.0	85 100	283.54 0.0	1/2 ⁺ 3/2 ⁺	D			
1907.52	3/2 ⁺	1623.32 1908.0	100 11 89 24	283.54 0.0	1/2 ⁺ 3/2 ⁺				
2041.4	(5/2) ⁺	578.0 747.43 [@] 2041.1	12 40 [@] 100	1463.8 1293.90 0.0	3/2 ⁺ 5/2 ⁺ 3/2 ⁺				
2047.4		1385.7 3	100	661.659	11/2 ⁻				
2117.0		2117	100	0.0	3/2 ⁺				

Adopted Levels, Gammas (continued)

γ(¹³⁷Ba) (continued)

E _i (level)	J _i ^π	E _γ [†]	I _γ [†]	E _f	J _f ^π	Mult.	α [‡]	Comments
2182.22	3/2 ⁻	384.59 17 1898.70 5 2182.23 9	0.82 14 100.0 9 2.5 2	1797.67 283.54 0.0	7/2 ⁻ 1/2 ⁺ 3/2 ⁺			
2228.9	7/2 ⁺	747.5@ 766.1& 934.9 976.8	89@ 100 33	1481.8 1463.8 1293.90 1251.82	(3/2 ⁺ ,5/2 ⁺) 3/2 ⁺ 5/2 ⁺ 7/2 ⁺			
2229.5	(13/2 ⁻)	182.0 3 1568.3	1.5 5 100 11	2047.4 661.659	11/2 ⁻	D		
2271.0	(3/2 ⁺ ,5/2)	371.3 976.8 1019.0 2271.4	17.5 100 37.5 95	1899.4 1293.90 1251.82 0.0	3/2 ⁺ 5/2 ⁺ 7/2 ⁺ 3/2 ⁺			
2311.0		2311	100	0.0	3/2 ⁺			
2344.0		2344	100	0.0	3/2 ⁺			
2349.1	(17/2 ⁻)	120.2 3	100	2229.5	(13/2 ⁻)	E2	1.004 17	α(K)=0.687 11; α(L)=0.250 5; α(M)=0.0545 10; α(N+..)=0.01289 23 α(N)=0.01134 21; α(O)=0.00152 3; α(P)=3.28×10 ⁻⁵ 6 B(E2)(W.u.)=0.45 8. Mult from RUL.
2355.6	1/2,3/2	2072.6 6 2355.4 4	100 16 52 16	283.54 0.0	1/2 ⁺ 3/2 ⁺			
2373.0		2373	100	0.0	3/2 ⁺			
2407.8		178.9 3	100	2229.5	(13/2 ⁻)			
2427.0		2427	100	0.0	3/2 ⁺			
2438.8?		1777.1 3	100	661.659	11/2 ⁻			
2529.6	7/2 ⁺	622.2 731.1 1067.8& 1236.4 1868.8&	51 71 33 100	1907.52 1797.67 1463.8 1293.90 661.659	3/2 ⁺ 7/2 ⁻ 3/2 ⁺ 5/2 ⁺ 11/2 ⁻			I _γ : probably multiply placed as only a small intensity can be assigned to this placement, as the transition has to be an M2.
2571.0		2571	100	0.0	3/2 ⁺			
2590.1		151.3 3 361.1 3	100 10 80 8	2438.8? 2229.5	(13/2 ⁻)			
2623.8	(19/2)	274.7 3	100	2349.1	(17/2 ⁻)	D		If M1, B(M1)(W.u.)>3.3×10 ⁻⁵ ; if E1, B(E1)(W.u.)>4.0×10 ⁻⁷ .
2653.0		2653	100	0.0	3/2 ⁺			
2662.72	1/2 ⁻	480.61 7 755.24 21 763.4 4 2379.07 7 2662.68 7	87 3 5.3 5 1.4 5 70 3 100 3	2182.22 1907.52 1899.4 283.54 0.0	3/2 ⁻ 3/2 ⁺ 3/2 ⁺ 1/2 ⁺ 3/2 ⁺			
2709.0		2709		0.0	3/2 ⁺			

Adopted Levels, Gammas (continued)

$\gamma(^{137}\text{Ba})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π
2873.8	(5/2) ⁻	1076.1		1797.67	7/2 ⁻	3680.80	1/2 ⁻ ,3/2 ⁻	1781 ^{&}	13	1899.4	3/2 ⁺
		1623.1 ^{&}		1251.82	7/2 ⁺			2198.3 12	18 7	1481.8	(3/2 ⁺ ,5/2 ⁺)
2905.0	5/2 ⁻ ,7/2 ⁻	2905		0.0	3/2 ⁺			3397.25 17	100 6	283.54	1/2 ⁺
2954.0		2954	100	0.0	3/2 ⁺			3680	12	0.0	3/2 ⁺
2964.9	1/2,3/2	1057.4 [@] 12	10 [@] 4	1907.52	3/2 ⁺	3703.1?	5/2 ⁻ ,7/2 ⁻	3703		0.0	3/2 ⁺
		2964.9 4	100 15	0.0	3/2 ⁺	3720.9?	1/2,3/2	1057.4 [@] 12	33 [@] 14	2662.72	1/2 ⁻
3037.0?		3037		0.0	3/2 ⁺			3437.4 4	100 19	283.54	1/2 ⁺
3074.0		3074		0.0	3/2 ⁺			3721	86	0.0	3/2 ⁺
3086.1	1/2,3/2	2800.9 6	100	283.54	1/2 ⁺	3761.1?		3761		0.0	3/2 ⁺
		3086.9 7	52	0.0	3/2 ⁺	3778.1?		3778		0.0	3/2 ⁺
3094.0		3094		0.0	3/2 ⁺	3798.89	(1/2 ⁻ ,3/2 ⁻)	1527.9 4	69 13	2271.0	(3/2 ⁺ ,5/2)
3127.42	1/2,3/2	945	12	2182.22	3/2 ⁻			3515.2 3	100 13	283.54	1/2 ⁺
		2843.80 19	56 7	283.54	1/2 ⁺			3798.9 5	67 13	0.0	3/2 ⁺
		3127.41 14	100 7	0.0	3/2 ⁺	3822.1?		3822		0.0	3/2 ⁺
3140.0		3140		0.0	3/2 ⁺	3846.1?		3846		0.0	3/2 ⁺
3179.4		555.6 3	100	2623.8	(19/2)	3850.3	1/2,3/2	3567		283.54	1/2 ⁺
3221.0	1/2,3/2	3221	100	0.0	3/2 ⁺			3850		0.0	3/2 ⁺
3244.0		620.2 3	100	2623.8	(19/2)	3857.1	1/2,3/2	3857	100	0.0	3/2 ⁺
3251.0?		3251		0.0	3/2 ⁺	3894.1?		3894		0.0	3/2 ⁺
3279.0?		3279		0.0	3/2 ⁺	3940.1?		3940		0.0	3/2 ⁺
3316.53	1/2 ⁻ ,3/2 ⁻	230.0 [#] 4	24 4	3086.1	1/2,3/2	3963.1	1/2,3/2	3963	100	0.0	3/2 ⁺
		1134	8	2182.22	3/2 ⁻	3977.1	1/2,3/2	3977	100	0.0	3/2 ⁺
		1416	9	1899.4	3/2 ⁺	3981.1?		3981		0.0	3/2 ⁺
		3033.06 15	100 5	283.54	1/2 ⁺	4149.97	1/2 ⁺ ,3/2	747.36 16	48 11	3402.54	3/2 ⁻
		3316	5	0.0	3/2 ⁺			2856.6 5	67 26	1293.90	5/2 ⁺
3332.0?	(5/2) ⁻	3332		0.0	3/2 ⁺			3866	63	283.54	1/2 ⁺
3383.0?		3383		0.0	3/2 ⁺			4150.3 6	100 33	0.0	3/2 ⁺
3402.54	3/2 ⁻	1220	5.5	2182.22	3/2 ⁻	4206.1	1/2,3/2	4206		0.0	3/2 ⁺
		2107.6 9	11 3	1293.90	5/2 ⁺	4216.10	1/2,3/2	1553.39 14	100	2662.72	1/2 ⁻
		3118.95 11	100 6	283.54	1/2 ⁺			4215	30	0.0	3/2 ⁺
		3402	5.5	0.0	3/2 ⁺	4550.7	1/2,3/2	3086.9 7	85	1463.8	3/2 ⁺
3453.0?		3453		0.0	3/2 ⁺			4267	100	283.54	1/2 ⁺
3473.0?		3473		0.0	3/2 ⁺	4594.9	1/2,3/2	794.3 13	43	3798.89	(1/2 ⁻ ,3/2 ⁻)
3525.0?		3525		0.0	3/2 ⁺			4312	78	283.54	1/2 ⁺
3563.0?		3563		0.0	3/2 ⁺			4595	100	0.0	3/2 ⁺
3606.1?		3606	100	0.0	3/2 ⁺	4764.4	1/2,3/2	2856.6 5	82	1907.52	3/2 ⁺
3640.1?	5/2 ⁻ ,7/2 ⁻	3640		0.0	3/2 ⁺			4482	100	283.54	1/2 ⁺

[†] From (n, γ), (n,n' γ) if seen in these reactions otherwise from (α ,3n γ) or Coulomb excitation.

[‡] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies,

Adopted Levels, Gammas (continued) $\gamma(^{137}\text{Ba})$ (continued)

assigned multipolarities, and mixing ratios, unless otherwise specified.

Multiply placed.

@ Multiply placed with intensity suitably divided.

& Placement of transition in the level scheme is uncertain.

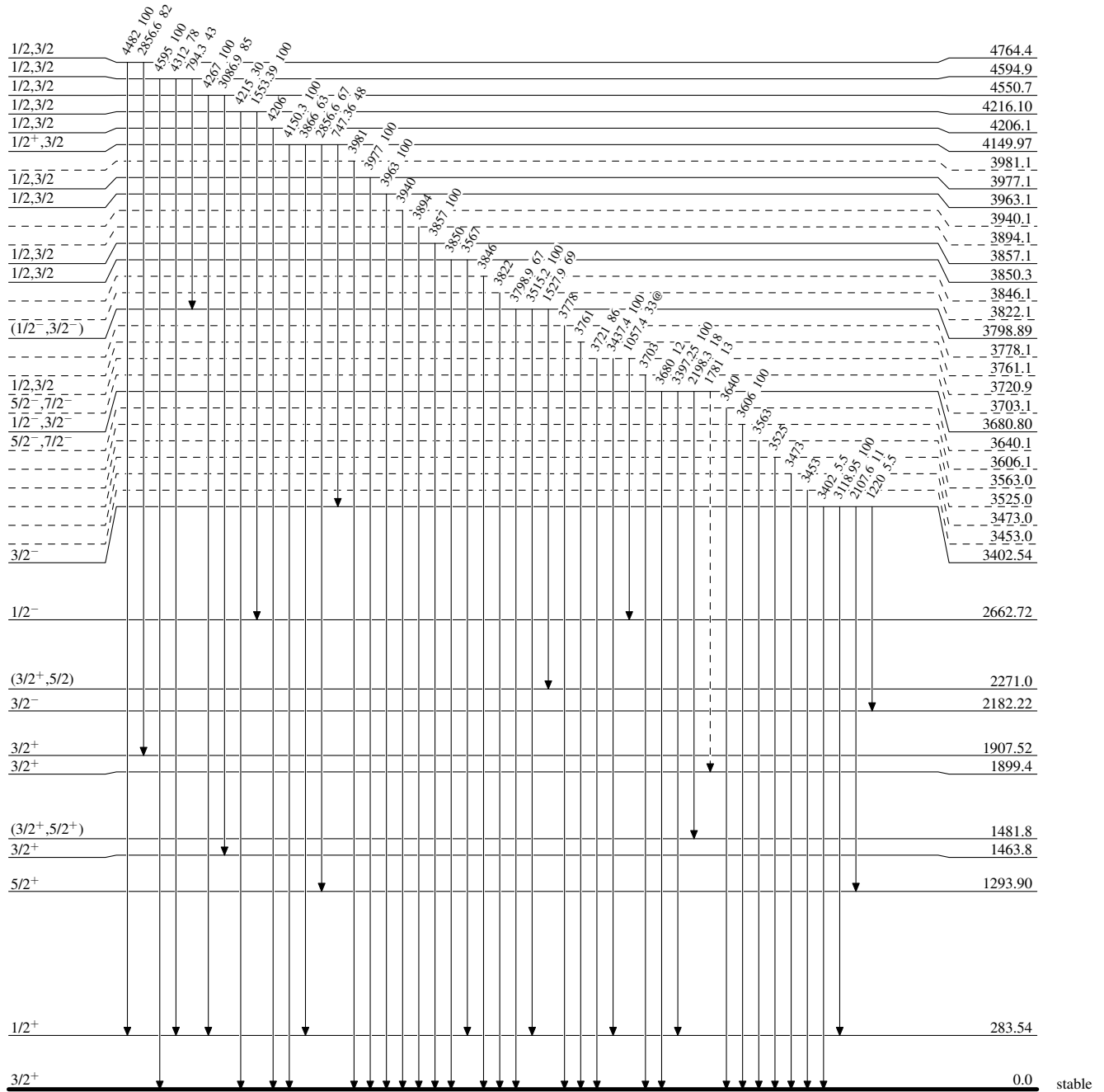
Adopted Levels, Gammas

Legend

Level Scheme

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

-----► γ Decay (Uncertain)



$^{137}_{56}\text{Ba}_{81}$

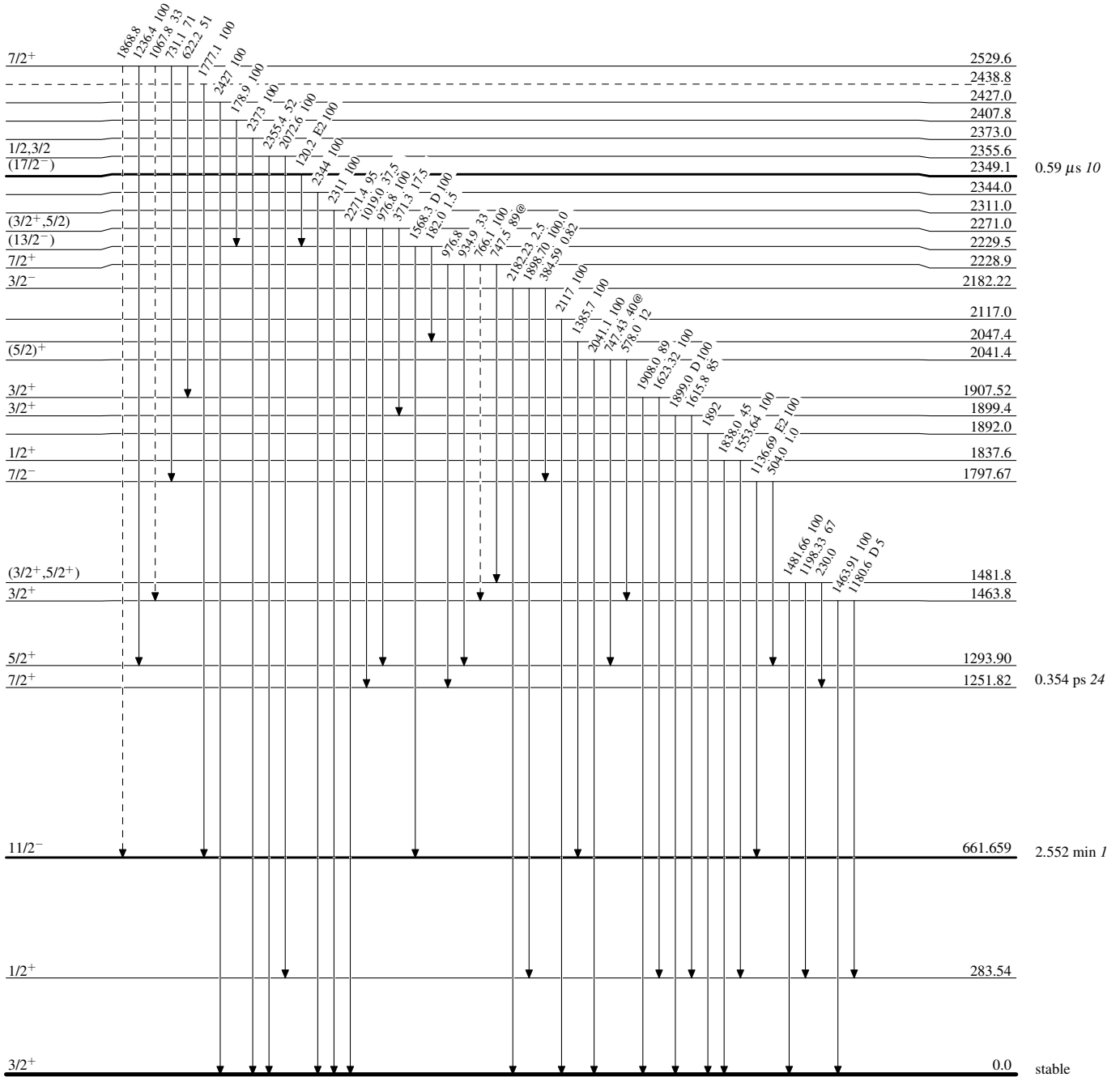
Adopted Levels, Gammas

Legend

Level Scheme (continued)

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

-----▶ γ Decay (Uncertain)



$^{137}_{56}\text{Ba}_{81}$

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

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

