

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 93,599 (2001)	1-Dec-2000

Q(β⁻)=318.6 9; S(n)=6897 4; S(p)=9549 8; Q(α)=414 9 [2012Wa38](#)

Note: Current evaluation has used the following Q record 318.7 86896 59539 16 410 9 [1995Au04](#).

Theory: [1992Bh04](#), [1992Eg01](#), [1992Na07](#), [1988So08](#).

[1999Is02](#): Measured difference in mean-square nuclear charge radius between ¹⁴³Ce and ¹⁴⁴Ce using collinear laser-ion-beam spectroscopy, δ<r²> =0.232 fm² 20.

¹⁴⁴Ce Levels

Cross Reference (XREF) Flags

- A ¹⁴⁴La β⁻ decay
- B ²⁵²Cf, ²⁴²Pu SF decay

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
0.0 [#]	0 ⁺	284.91 d 5	AB	%β ⁻ =100 T _{1/2} : weighted average from 284.5 d 10 (1956Sc87), 284.3 d 3 (1957Ke26), 283.8 d 6 (1965Fl02), 284.8 d 10 (1968La10), 284.9 d 8 (1968Re04), 285.08 d 18 (1976WaZH), 285.8 d 1 (1980Ho17), 284.45 d 14 (1983Wa26), 284.893 d 8 (1986Ol01) and 286.14 d 9 (1997Ma75).
397.441 [#] 9	2 ⁺	35.4 ps 20	AB	T _{1/2} : weighed average from 29 ps 7 (1989Ma38) and 36.0 ps 21 (1989Mo06). J ^π : E2 γ to 0 ⁺ g.s.
938.65 [#] 6	4 ⁺		AB	J ^π : E2 γ to 2 ⁺ , (541γ)(397γ)(θ) gives J=4.
1242.21 [@] 15	(3 ⁻)		AB	J ^π : (303γ)(541γ)θ gives J=3 with 303γ as D(Q), the latter is assumed to be E1. From systematics, member of octupole band.
1346.1 7	(1)		A	J ^π : decays to 0 ⁺ g.s. Not fed in β ⁻ from (3 ⁻) parent.
1489.0 3	2 ⁽⁺⁾		A	J ^π : decays to 0 ⁺ g.s., (1092γ)(397γ)(θ) consistent with 2(D,Q)2(Q)0.
1523.67 [@] 10	(5 ⁻)		AB	J ^π : γγ(θ) is consistent with J=3, 5. J ^π =5 ⁻ is suggested by 1986WaZQ on the basis of decay of higher lying levels. Large β feeding to the level shows missing γ feeding to the level.
1646.80 [#] 17	(6 ⁺)		B	
1673.67 18	4 ⁺		A	J ^π : from γγ(θ) J=4, 1276γ to 2 ⁺ 397 is Q.
1691.53 22	3 ⁽⁺⁾		A	J ^π : (1294γ)(397γ)(θ).
1819.0 4	2 ⁺		A	J ^π : γ to 0 ⁺ g.s., (1421γ)(397γ)(θ) is consistent only with J=2.
1829.01 19	4 ⁺		A	J ^π : (1432γ)(397γ)(θ) is consistent with 4(Q)2(Q)0.
1864.5 4	1		A	J ^π : (1467γ)(397γ)(θ) give J=1 with 1467γ as D,Q.
1890.92 18	5 ^{(+),3}		A	J ^π : γγ(θ) give J=3,5.
1991.55 22	3,5		A	J ^π : γγ(θ) give J=3,5.
1994.34 [@] 19	(7 ⁻)		B	
2021.1 4	3 ⁽⁺⁾		A	J ^π : from γγ(θ).
2028.7 4	1 ⁽⁺⁾		A	J ^π : γ to 0 ⁺ g.s., (1631γ)(397γ)(θ) not consistent with J=2.
2040.7 3	3 ⁽⁺⁾		A	J ^π : from γγ(θ).
2112.10 19	2 ⁺ ,(1 ⁺)		A	J ^π : γ to 0 ⁺ g.s., γγ(θ).
2127.0 3	2 ⁺ ,3 ^{(+),4}		A	
2152.8 4	2 ⁺		A	J ^π : γ to 0 ⁺ g.s., (1755γ)(397γ)(θ) not consistent with J=1.
2220.8 4	4 ⁽⁻⁾		A	J ^π : from γγ(θ).
2339.8 4	2 ⁽⁺⁾		A	J ^π : from γγ(θ).
2352.6 4	2 ⁺		A	J ^π : γ to 0 ⁺ g.s., (1955γ)(397γ)(θ) not consistent with J=1.
2368.77 [#] 19	(8 ⁺)		B	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{144}Ce Levels (continued)

E(level) [†]	J ^π [‡]	XREF	Comments
2405.2 4	3,2 ⁽⁺⁾	A	J ^π : from $\gamma\gamma(\theta)$.
2447.5 10		A	
2534.3 3	3 ⁽⁺⁾	A	J ^π : from $\gamma\gamma(\theta)$.
2536.6 6	2,3 ⁽⁺⁾ ,4	A	J ^π : from $\gamma\gamma(\theta)$.
2623.2 5		A	
2636.74 @ 21	(9 ⁻)	B	
2642.41 21	4 ⁽⁺⁾ ,2 ⁽⁺⁾	A	J ^π : from $\gamma\gamma(\theta)$.
2692.8 5	4 ⁽⁺⁾ ,3	A	J ^π : from $\gamma\gamma(\theta)$.
2749.9 4	2 ⁽⁺⁾	A	J ^π : γ to 0 ⁺ g.s., (2353 γ)(397 γ)(θ) not consistent with J=1.
2802.5 9		A	
2881.7 3	3,5 ⁽⁻⁾	A	J ^π : from $\gamma\gamma(\theta)$.
2882.0 7	2 ⁽⁺⁾	A	J ^π : γ to 0 ⁺ g.s., (1639 γ) γ (397 γ)(θ) consistent with J=2.
2903.6 4	(3 ⁻ ,4 ⁺ ,2)	A	J ^π : from $\gamma\gamma(\theta)$.
2937.3?		A	
2998.7 3	2 ⁽⁺⁾	A	J ^π : γ to 0 ⁺ g.s., γ to 4 ⁽⁺⁾ , 1829 level.
3007.9 9	1 ⁽⁻⁾ ,2 ⁽⁺⁾	A	J ^π : γ to 0 ⁺ g.s., γ to 3 ⁽⁻⁾ , 1242 level.
3060.1 5	1 ⁽⁻⁾	A	J ^π : γ to 0 ⁺ g.s., (2662 γ)(397 γ)(θ) not consistent with J=2, γ to 3 ⁽⁻⁾ .
3173.0 5	2,3	A	J ^π : from $\gamma\gamma(\theta)$.
3197.18 24	4 ⁽⁺⁾ ,3 ⁽⁺⁾	A	J ^π : from $\gamma\gamma(\theta)$.
3209.3 6		A	
3238.85 25	4 ⁽⁻⁾ ,2	A	J ^π : from $\gamma\gamma(\theta)$.
3263.0 5	(2 ⁺ ,3,4 ⁺)	A	J ^π : from $\gamma\gamma(\theta)$.
3278.6 6		A	
3293.5 6		A	
3335.74 @ 23	(11 ⁻)	B	
3371.9? 6		A	
3396.2? 11		A	
3408.5 4		A	
3424.2?		A	
3566.1 5		A	
3597.1 6		A	
3614.2 20		A	
3628.9 7	1 ⁽⁻⁾ ,2 ⁽⁺⁾	A	J ^π : γ to 0 ⁺ g.s., γ to 3 ⁽⁻⁾ , 1242 level.
3635.0 6	1 ⁽⁻⁾ ,2 ⁽⁺⁾	A	J ^π : γ to 0 ⁺ g.s., γ to 3 ⁽⁻⁾ , 1242 level.
3790.1 5		A	
3973.6 12		A	

[†] From least squares fit to $E\gamma$.

[‡] J^π=1,2⁺ for levels decaying directly to 0⁺ g.s. Low-spin J assignments are based upon $\gamma\gamma(\theta)$ results of 1982Mi01. High-spin from fission experiments.

Band(A): Ground-state band.

@ Band(B): Octupole band.

Adopted Levels, Gammas (continued)

$\gamma(^{144}\text{Ce})$									
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. ‡	δ^\dagger	$\alpha^\#$	Comments
397.441	2 ⁺	397.440 9	100.0	0.0	0 ⁺	E2		0.0207	$\alpha(\text{K})=0.0170$ 6; $\alpha(\text{L})=0.00290$ 9; $\alpha(\text{M})=0.00061$ 2; $\alpha(\text{N}+\dots)=0.00016$ 1 B(E2)(W.u.)=38 4 $\alpha(\text{K})=0.00731$ 22; $\alpha(\text{L})=0.00112$ 4
938.65	4 ⁺	541.20 6	100.0	397.441	2 ⁺	E2		0.0088	
1242.21	(3 ⁻)	303.6 3	6.6 4	938.65	4 ⁺	(E1+M2)	+0.007 8	0.0121 1	
		844.8 4	100 4	397.441	2 ⁺	(E1+M2)	-0.126 5	0.0013	
1346.1	(1)	948.6		397.441	2 ⁺				
		1346.1		0.0	0 ⁺				
1489.0	2 ⁽⁺⁾	1092.1 5	71 8	397.441	2 ⁺	(E2+M1)	+5 +12-3	0.0017 2	
		1489.6 6	100 8	0.0	0 ⁺				
1523.67	(5 ⁻)	585.02 9	100.0	938.65	4 ⁺	D+Q			
1646.80	(6 ⁺)	708.6 \ddagger	100.0 \ddagger	938.65	4 ⁺				
1673.67	4 ⁺	431.4 3	51.2 22	1242.21	(3 ⁻)	(E1+M2)	+0.03 6	0.0051 6	
		735.2 3	100 3	938.65	4 ⁺	(M1+E2)	+0.52 4	0.0057 1	
		1276.3 5	22.7 16	397.441	2 ⁺	(E2)		0.00123	$\alpha(\text{K})=0.00105$ 4; $\alpha(\text{L})=0.00014$
1691.53	3 ⁽⁺⁾	449.5 4	20 3	1242.21	(3 ⁻)				
		1294.2 5	100 10	397.441	2 ⁺	(M1+E2)			
1819.0	2 ⁺	1421.8 6	100 10	397.441	2 ⁺	E2+M1	-3.5 +14-49	0.00102 4	$\alpha(\text{K})=0.00087$ 4; $\alpha(\text{L})=0.00011$
		1819.1 9	11 11	0.0	0 ⁺				
1829.01	4 ⁺	587.0 3	22.6 25	1242.21	(3 ⁻)				
		890.4 4	30.2 25	938.65	4 ⁺	(M1+E2)	+0.68 14	0.0035 2	
		1431.4 4	100 4	397.441	2 ⁺	(E2)		0.00098	$\alpha(\text{K})=0.00083$ 3; $\alpha(\text{L})=0.00011$
1864.5	1	1467.1 6	100 16	397.441	2 ⁺	D(+Q)	-0.4 4		
		1864.2 9	47 18	0.0	0 ⁺				
1890.92	5 ⁽⁺⁾ ,3	367.3 3	50 4	1523.67	(5 ⁻)				
		952.2 3	100 13	938.65	4 ⁺	D+Q			
1991.55	3,5	467.7 4	26 5	1523.67	(5 ⁻)				
		1052.7 3	100 6	938.65	4 ⁺	D+Q			
1994.34	(7 ⁻)	347.6 \ddagger	100 \ddagger	1646.80	(6 ⁺)				
		471.1 \ddagger @	\ddagger	1523.67	(5 ⁻)				
2021.1	3 ⁽⁺⁾	1082.7 6	78 14	938.65	4 ⁺	(E2+M1)	-6 4	0.0017 2	
		1623.8 7	100 14	397.441	2 ⁺	(M1+E2)	0.13 +24-19		
2028.7	1 ⁽⁺⁾	1631.8 7	100 10	397.441	2 ⁺	(M1+E2)	+0.53 +14-11		
		2028.7 9	34 6	0.0	0 ⁺				
2040.7	3 ⁽⁺⁾	798.5 5	40 6	1242.21	(3 ⁻)				
		1102.1 5	100 9	938.65	4 ⁺	(M1+E2)	-0.63 +32-16	0.0021 2	
		1641.9 9	23 12	397.441	2 ⁺				
2112.10	2 ⁺ ,(1 ⁺)	1714.6 8	100 18	397.441	2 ⁺	(M1+E2)			
		2112.0 2	22 8	0.0	0 ⁺				
2127.0	2 ⁺ ,3 ⁽⁺⁾ ,4	453.4 4	100.0	1673.67	4 ⁺	(E2+M1)			

Adopted Levels, Gammas (continued)

$\gamma(^{144}\text{Ce})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. †	δ^\dagger	$\alpha^\#$
2152.8	2 ⁺	1214.5 @ 8	<46.43	938.65	4 ⁺			
		1755.5 8	100 16	397.441	2 ⁺	(M1+E2)		
		2152.8 9	27 13	0.0	0 ⁺			
2220.8	4 ⁽⁻⁾	978.5 5	100 6	1242.21	(3 ⁻)	(M1+E2)	-0.32 9	0.0030 1
		1282.1 6	17 5	938.65	4 ⁺			
2339.8	2 ⁽⁺⁾	1401.1 6	51 7	938.65	4 ⁺			
		1942.2 9	100 9	397.441	2 ⁺	(M1+E2)	+0.07 17	
		2339.5	19.59	0.0	0 ⁺			
2352.6	2 ⁺	1413.9 6	100 18	938.65	4 ⁺			
		1955.1 9	9. \times 10 ¹ 3	397.441	2 ⁺			
		2352.4 @ 10	47 18	0.0	0 ⁺			
2368.77	(8 ⁺)	374.5 ‡	100 ‡	1994.34	(7 ⁻)			
		721.9 ‡	67 ‡	1646.80	(6 ⁺)			
2405.2	3,2 ⁽⁺⁾	2007.8 9	100.00	397.441	2 ⁺	D+Q		
2447.5		2050.0 10	100.0	397.441	2 ⁺			
2534.3	3 ⁽⁺⁾	643.0 4	35.7 25	1890.92	5 ⁽⁺⁾ ,3			
		705.4 4	100 4	1829.01	4 ⁺	(M1+E2)	-0.63 9	0.0061 2
		860.8 5	13.3 21	1673.67	4 ⁺			
		2137.4 9	6.8 18	397.441	2 ⁺			
2536.6	2,3 ⁽⁺⁾ ,4	1294.4 5	100.0	1242.21	(3 ⁻)	D+Q		
2623.2		1683.1 7	100.0	938.65	4 ⁺			
2636.74	(9 ⁻)	267.9 ‡ @	‡	2368.77	(8 ⁺)			
		642.4 ‡	100 ‡	1994.34	(7 ⁻)			
2642.41	4 ⁽⁺⁾ ,(2 ⁺)	751.7 3	46 4	1890.92	5 ⁽⁺⁾ ,3	(M1+E2)		
		813.2 4	14.8 23	1829.01	4 ⁺			
		950.9 3	57 12	1691.53	3 ⁽⁺⁾			
		968.8 5	100 4	1673.67	4 ⁺	(E2,M1+E2)		
		1153.0 5	13 3	1489.0	2 ⁽⁺⁾			
2692.8	4 ⁽⁺⁾ ,3	340.2 3	100 16	2352.6	2 ⁺			
		1754.7 9	88 16	938.65	4 ⁺	D+Q		
2749.9	2 ⁺	597.2 4	100 17	2152.8	2 ⁺			
		2352.9 10	9. \times 10 ¹ 3	397.441	2 ⁺	(M1+E2)		
		2749.9 12	24 6	0.0	0 ⁺			
2802.5	3,5 ⁽⁻⁾	1863.8 9	100.0	938.65	4 ⁺			
2881.7		853.2 5	100 9	2028.7	1 ⁽⁺⁾			
		1062.9 6	34 9	1819.0	2 ⁺			
		1190.4 6	45 9	1691.53	3 ⁽⁺⁾			
		1357.8 5	27 9	1523.67	(5 ⁻)	(E2+M1)		
	1942.7 9	30 7	938.65	4 ⁺	(E1+M2)			

Adopted Levels, Gammas (continued)

γ(¹⁴⁴Ce) (continued)

E _i (level)	J _i ^π	E _γ [†]	I _γ [†]	E _f	J _f ^π	Mult. [†]	δ [†]	α [#]	Comments
2882.0	2 ⁺	1639.8 9	100 15	1242.21	(3 ⁻)				
		2881.9 12	41 8	0.0	0 ⁺				
2903.6	(3 ⁻ ,4 ⁺ ,2)	1212.0 8	<65.82	1691.53	3 ⁽⁺⁾				
		1380.1 6	100 14	1523.67	(5 ⁻)				
		1661.4 7	89 13	1242.21	(3 ⁻)				
		1965.0 9	46 11	938.65	4 ⁺				
2937.3?		2540.0 @ 11	100.0	397.441	2 ⁺				
2998.7	2 ⁺	871.9 5	100 19	2127.0	2 ⁺ ,3 ⁽⁺⁾ ,4				
		1006.2 5	31 10	1991.55	3,5				
		1170.2 5	91 19	1829.01	4 ⁺				
		1307.4 6	37 10	1691.53	3 ⁽⁺⁾				
		1756.8 8	69 17	1242.21	(3 ⁻)				
		2998.9 @ 15	41 10	0.0	0 ⁺				
3007.9	1 ⁽⁻⁾ ,2 ⁺	1765.7 8	100 16	1242.21	(3 ⁻)				
		3007.4 @ 15	32 8	0.0	0 ⁺				
3060.1	1 ⁽⁻⁾	907.3 5	30 5	2152.8	2 ⁺				
		1818.0 9	20 4	1242.21	(3 ⁻)				
		2662.7 10	100 5	397.441	2 ⁺	(E1+M2)	-0.09 8		
		3060.0 15	6.3 15	0.0	0 ⁺				
3173.0	2,3	1308.4 6	68 14	1864.5	1				
		1499.3 7	100 15	1673.67	4 ⁺				
		1930.9 8	30 10	1242.21	(3 ⁻)				
3197.18	4 ⁽⁺⁾ ,3 ⁺	1044.5 5	5.4 22	2152.8	2 ⁺				
		1070.2 5	28 3	2127.0	2 ⁺ ,3 ⁽⁺⁾ ,4				
		1084.3 6	22 4	2112.10	2 ⁺ ,1 ⁺	(E2)		0.00172	α(K)=0.00146 5; α(L)=0.00019 1
		1176.2 5	14 4	2021.1	3 ⁽⁺⁾				
		1505.7 7	11 3	1691.53	3 ⁽⁺⁾				
		1523.5 7	100 5	1673.67	4 ⁺	(M1+E2)			
		1673.7 6	40 4	1523.67	(5 ⁻)	D+Q			
		1955.2 9	27 4	1242.21	(3 ⁻)				
		2258.7 9	18.7 22	938.65	4 ⁺				
3209.3		1217.8 6	100 22	1991.55	3,5				
		1966.8 9	93 19	1242.21	(3 ⁻)				
3238.85	4 ⁽⁻⁾ ,2	357.3 4	9.7 24	2881.7	3,5 ⁽⁻⁾				
		833.6 4	31 3	2405.2	3,2 ⁽⁺⁾				
		1017.8 5	9.3 20	2220.8	4 ⁽⁻⁾				
		1247.4 6	13 4	1991.55	3,5				
		1347.8 6	53 4	1890.92	5 ⁽⁺⁾ ,3	(E1+M2)	-0.09 22	0.00052 24	α(K)=0.00045 20
		1715.6 8	31 4	1523.67	(5 ⁻)	D+Q			
		1996.4 7	100 5	1242.21	(3 ⁻)	D+Q			

Adopted Levels, Gammas (continued) $\gamma(^{144}\text{Ce})$ (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
3238.85	4 ⁽⁻⁾ ,(2)	2300.0 10	11.7 24	938.65	4 ⁺	3424.2?		3027.4 @ 15	100 20	397.441	2 ⁺
3263.0	(2 ⁺ ,3,4 ⁺)	857.8 5	13 12	2405.2	3,2 ⁽⁺⁾	3566.1		662.5 4	100 9	2903.6	(3 ⁻ ,4 ⁺ ,2)
		2324.4 9	55 9	938.65	4 ⁺			763.4 @ 4	34 8	2802.5	
		2865.2 12	100 9	397.441	2 ⁺			2323.7 9	32 6	1242.21	(3 ⁻)
3278.6		1237.8 6	100 16	2040.7	3 ⁽⁺⁾	3597.1		974.2 5	100 17	2623.2	
		2036.5 9	73 15	1242.21	(3 ⁻)			2353.6 10	40 9	1242.21	(3 ⁻)
		2340.0 15	38 10	938.65	4 ⁺	3614.2		2372.0 20	100.0	1242.21	(3 ⁻)
3293.5		1804.4 8	100 13	1489.0	2 ⁽⁺⁾	3628.9	1 ⁽⁻⁾ ,2 ⁺	746.9 4	100 12	2882.0	2 ⁺
		2051.4 10	79 13	1242.21	(3 ⁻)			2386.8 20	<32.05	1242.21	(3 ⁻)
		2896.2 12	45 9	397.441	2 ⁺			3628.9 15	15 4	0.0	0 ⁺
3335.74	(11 ⁻)	699.0 ‡	100 ‡	2636.74	(9 ⁻)	3635.0	1 ⁽⁻⁾ ,2 ⁺	1010.8 5	100 22	2623.2	
3371.9?		621.8 5	1.0×10 ² 3	2749.9	2 ⁺			2150.8 9	43 18	1489.0	2 ⁽⁺⁾
		2131.0 16	20 10	1242.21	(3 ⁻)			2390.3 20	<54.35	1242.21	(3 ⁻)
3396.2?		2154.0 10	100.0	1242.21	(3 ⁻)			3632.4 15	22 7	0.0	0 ⁺
3408.5		1367.6 5	68 15	2040.7	3 ⁽⁺⁾	3790.1		1437.8 6	34 20	2352.6	2 ⁺
		1387.5 6	100 15	2021.1	3 ⁽⁺⁾			1450.2 6	100 25	2339.8	2 ⁽⁺⁾
		2166.5 9	53 11	1242.21	(3 ⁻)			2547.6 11	29 10	1242.21	(3 ⁻)
3424.2?		2182.1 @ 9	46 16	1242.21	(3 ⁻)	3973.6		2731.4 12	100.0	1242.21	(3 ⁻)

† From β -decay studies, except as noted.

‡ From 1995Zh34 in SF decay.

Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

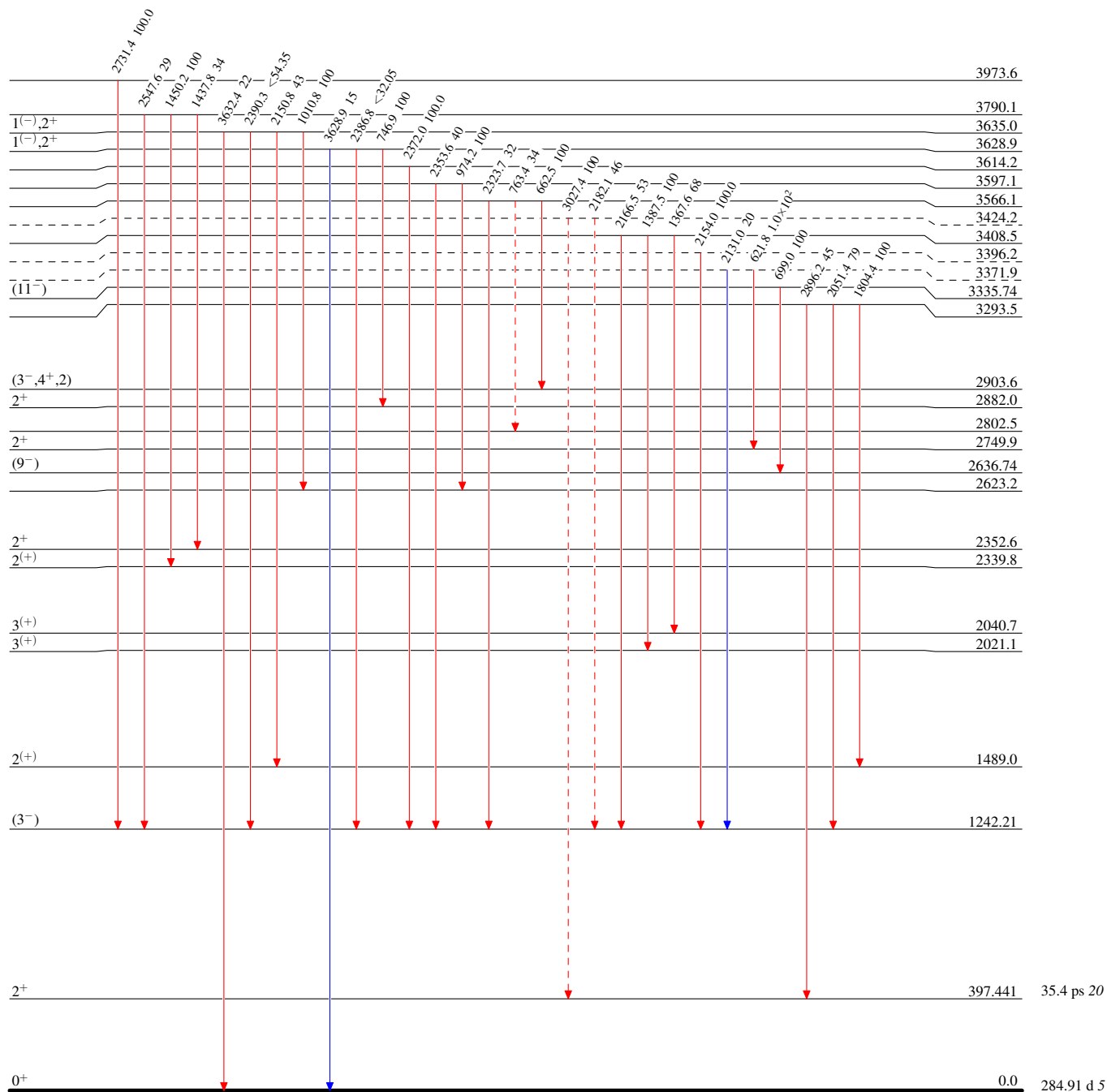
@ Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

Level Scheme
 Intensities: Type not specified

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



$^{144}_{58}\text{Ce}_{86}$

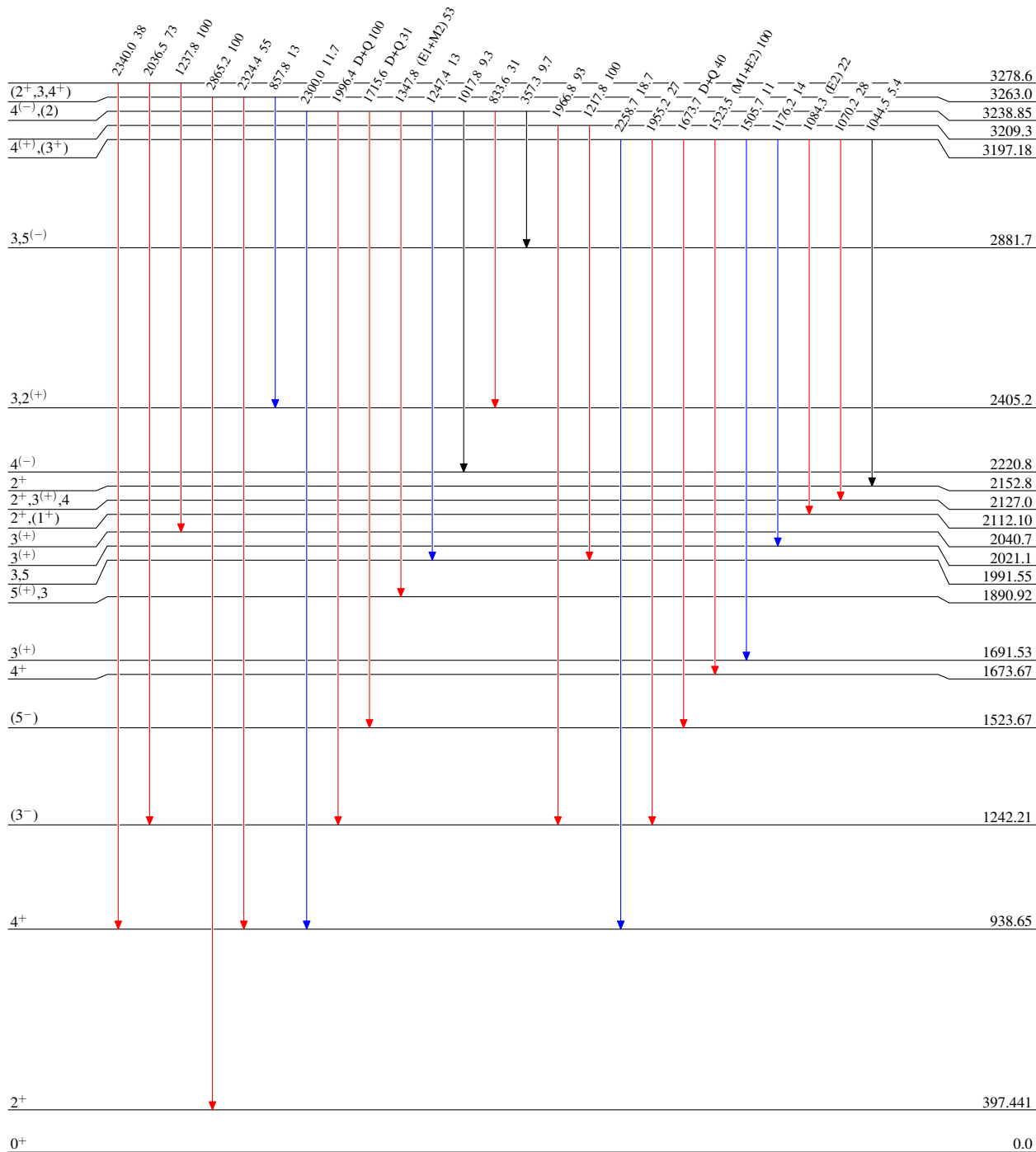
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

- I_γ < 2% × I_γ^{max}
- I_γ < 10% × I_γ^{max}
- I_γ > 10% × I_γ^{max}



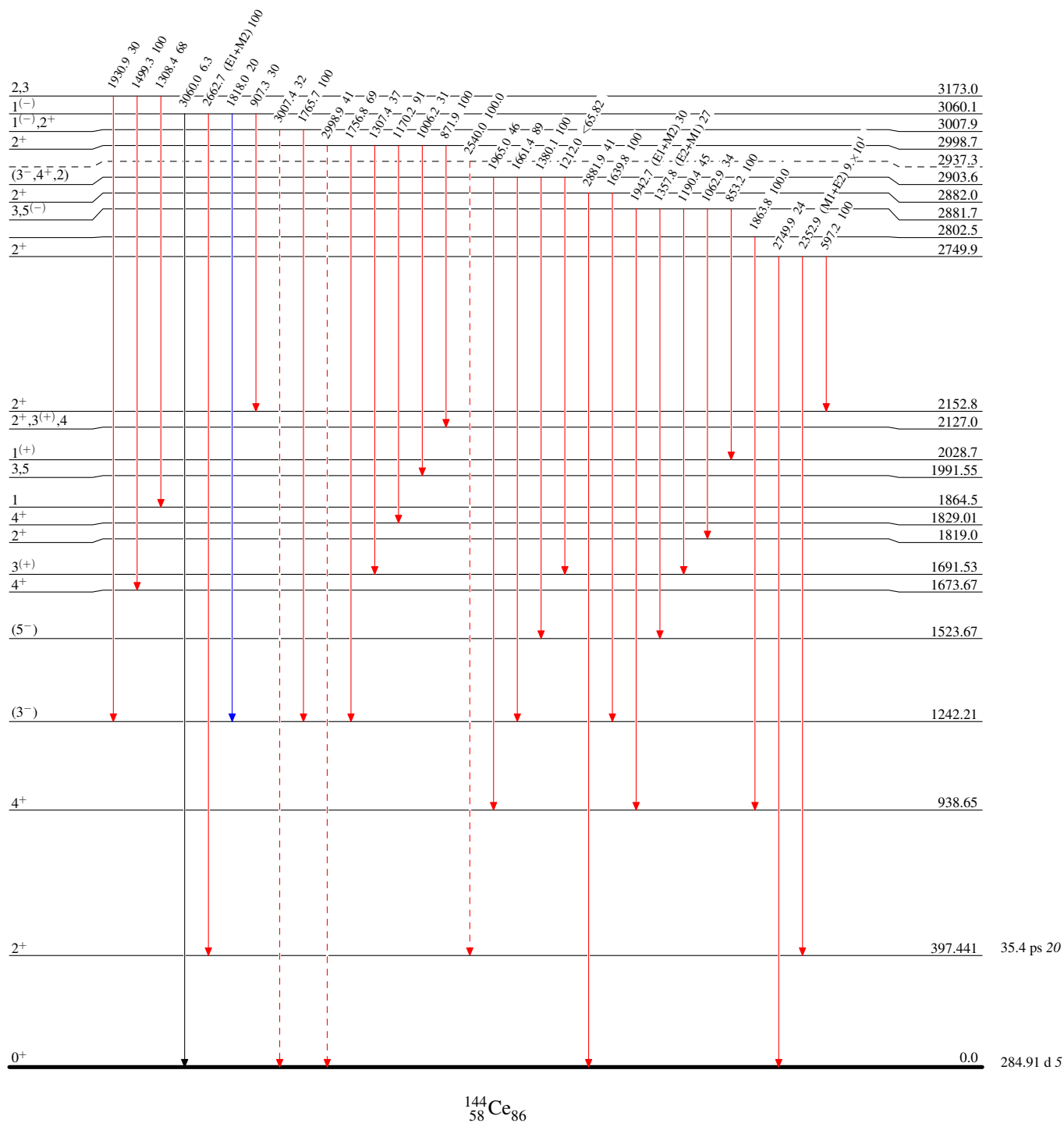
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

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



$^{144}_{58}\text{Ce}_{86}$

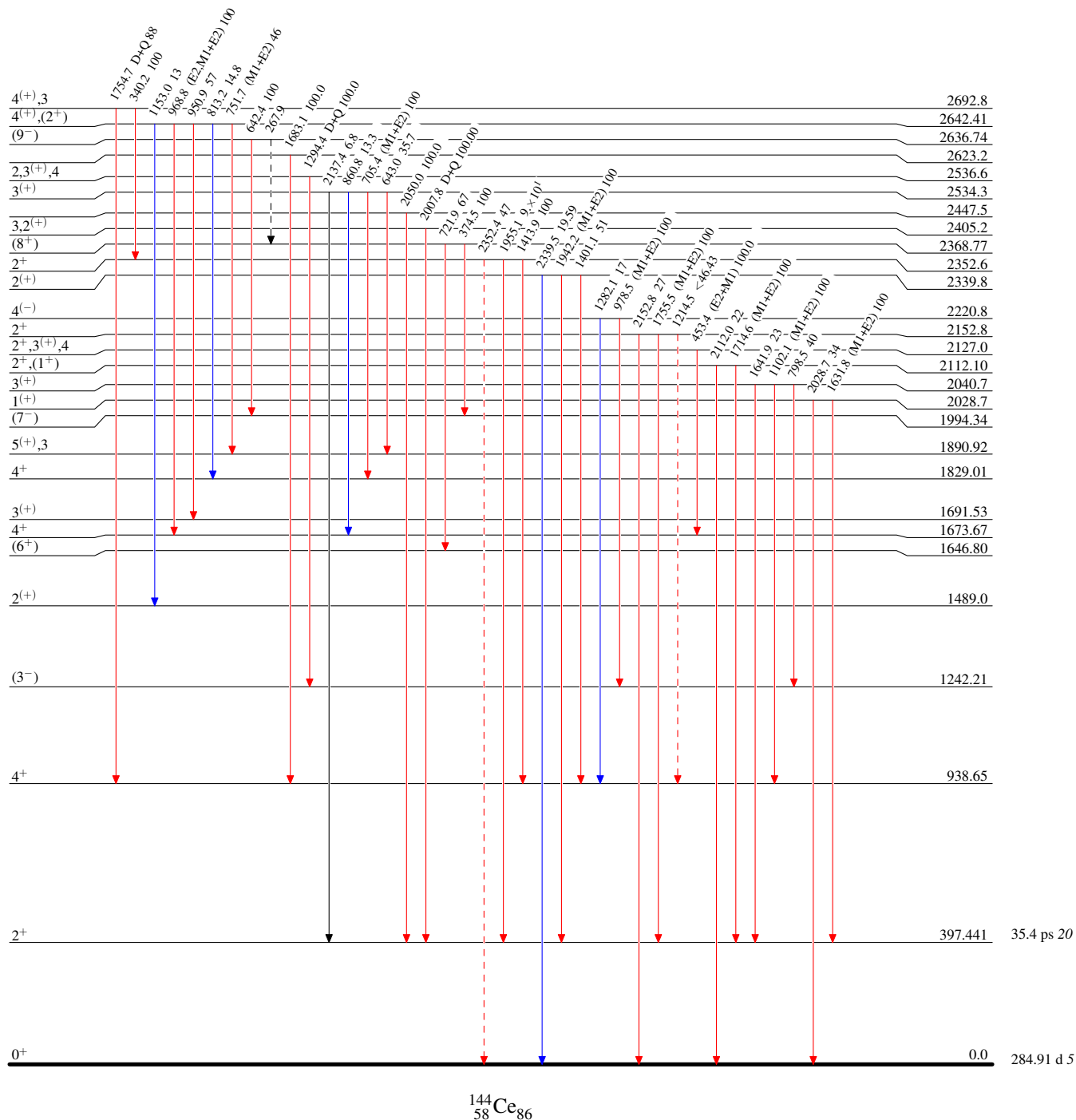
Adopted Levels, Gammas

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)



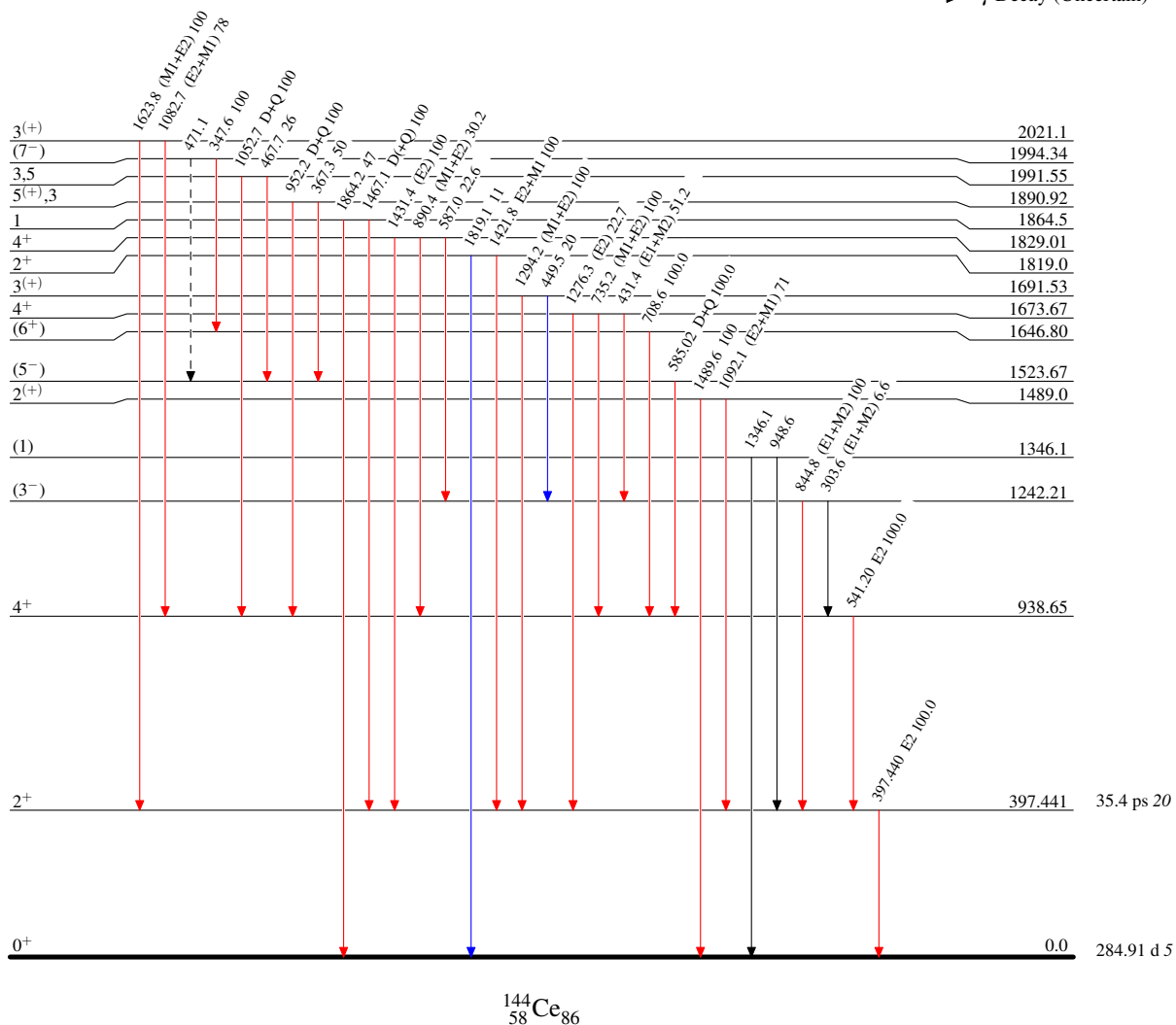
Adopted Levels, Gammas

Legend

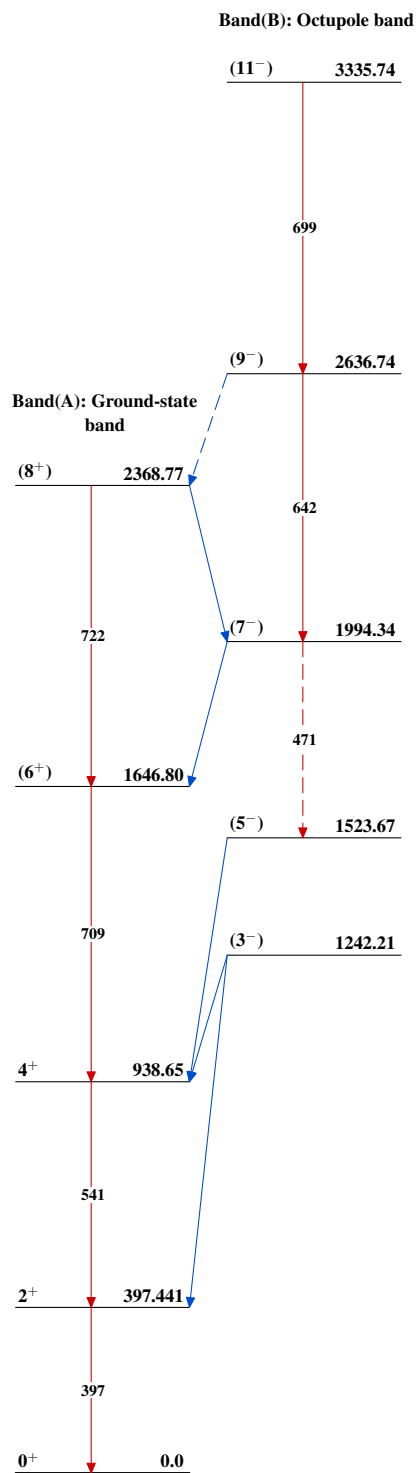
Level Scheme (continued)

Intensities: Type not specified

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



$^{144}_{58}\text{Ce}_{86}$

Adopted Levels, Gammas $^{144}_{58}\text{Ce}_{86}$