

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Alexander A. Rodionov And Yuri L. Khazov		NDS 109,517 (2008)	22-Jan-2008

$Q(\beta^-)=1165$ 4; $S(n)=6364$ 5; $S(p)=9647$ 7; $Q(\alpha)=-3631$ 5 [2012Wa38](#)

Note: Current evaluation has used the following Q record 1165 4 6364 5 9634 9 -3632 5 [2003Au03](#).

$^{136}\text{Xe}(d,^3\text{He})$ E=500 MeV: [2005Ba34](#): search for deeply-bound pionic states. The peak observed at ≈ 363 MeV with $d\sigma/d\Omega=40$ $\mu\text{b/sr}$ is ascribed to deeply-bound pionic 1s state in ^{135}Xe .

Nuclear structure calculations: [2002Hi08](#) (levels, bands, shell-model), [1995To12](#) (Gamow-Teller β transition rates), [1983Hs02](#) and [1973He14](#) (levels, transition rates).

[Additional information 1.](#)

 ^{135}Xe LevelsCross Reference (XREF) Flags

A	^{135}I β^- decay (6.58 h)	D	$^{136}\text{Xe}(d,t)$
B	^{135}Xe IT decay (15.29 min)	E	$^{208}\text{Pb}(^{18}\text{O},\text{Fy})$
C	$^{136}\text{Xe}(p,d)$		

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0	3/2 ⁺	9.14 h 2	ABCDE	$\% \beta^- = 100$ $\mu = +0.9032$ 7 (1990NeZY) $Q = +0.214$ 7 (1990NeZY) μ, Q : collinear fast beam LASER spectroscopy (1990NeZY). Other: $\mu = 0.90305$ 22 (1987CaZU, 1989Ra17) from nuclear-magnetic resonance and optical pumping with radiative detection. See also 2005St24 compilation. J^π : L(p,d)=L(d,t)=2; M4 γ between 526.551, L(p,d)=5 level and g.s. with L(p,d)=2. $T_{1/2}$: weighted average of 9.104 h 20 (1975Ho18), 9.083 h 13 (1974FoZY), 9.20 h 3 (1973Sa27), 9.172 h 5 (1971Ha13), 9.14 h 10 (1968Al16), 9.14 h 3 (1965An05), 9.19 h 4 (1964Cl01), 9.13 h 5 (1953Br11).
288.455 15	1/2 ⁺	15.29 min 5	A CD	J^π : L(p,d)=L(d,t)=0.
526.551 13	11/2 ⁻		ABCDE	$\% \text{IT} > 99.4$; $\% \beta^- < 0.6$ $\mu = -1.1036$ 14 (1990NeZY) $Q = +0.618$ 21 (1990NeZY) $\% \text{IT} = 99.4$ to 999.996. $\% \beta^- = 0.004$ to 0.6. μ, Q : collinear fast beam LASER spectroscopy (1990NeZY). Other: $\mu = 1.10304$ 20 (1987CaZU, 1989Ra17) from nuclear-magnetic resonance and optical pumping with radiative detection. See also 2005St24 compilation. $\% \beta^- = 0.004$ to 0.6 from I(γ 's to ^{135}Cs)/I(526 γ , ^{135}Xe) = 4.9×10^{-5} (1974MeZV, 1982Wa21) and $\log f^{1u} t > 8.5$ for β^- transition to 7/2 ⁺ (^{135}Cs g.s.). J^π : L(p,d)=L(d,t)=5; M4 γ between this level and g.s. with L(p,d)=2. $T_{1/2}$: from 1975Fu12 . Others: 15.287 min 22 (1971Ha13), 15.2 min 7 (1968Al16), 15.65 min 10 (1960Ko02), 15.8 min 4 (1960Al12).
1131.512 11	7/2 ⁺		A	J^π : E2 γ to 3/2 ⁺ ; (M1+E2) γ from 9/2 ⁺ ; $\gamma\gamma(\theta)$.
1260.416 13	5/2 ⁺		A D	XREF: D(1280). J^π : M1+E2 γ to 3/2 ⁺ ; $\log ft = 7.0$ from 7/2 ⁺ .
1448.36 3	(3/2 ⁺)		A	J^π : γ to 1/2 ⁺ ; γ from (7/2) ⁺ .
1457.566 15	5/2 ⁺		A D	XREF: D(1470). J^π : M1, E2 γ to 3/2 ⁺ ; γ to 1/2 ⁺ ; $\log ft = 7.3$ from 7/2 ⁺ .
1543.70 17	(1/2 ⁺)		A d	J^π : L(d,t)=(0+4) for 1530 30 group which is possibly a doublet.
1565.288 16	9/2 ⁺		A d	J^π : E1 γ to 11/2 ⁻ ; $\log ft = 7.1$ from 7/2 ⁺ . See also comment for 1543.7 level.
1678.065 12	(7/2) ⁺		A	J^π : $\gamma\gamma(\theta)$; M1+E2 γ to 5/2 ⁺ .
1748.5 4	(15/2 ⁻) [#]		E	
1781.39 3	(11/2) ⁺		A	J^π : γ 's to 7/2 ⁺ and 11/2 ⁻ ; $\gamma\gamma(\theta)$.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) ^{135}Xe Levels (continued)

E(level) [†]	J ^π	XREF	Comments
1791.213 19	5/2 ⁺	A D	XREF: D(1830). J ^π : L(d,t)=2; log ft=6.7 from 7/2 ⁺ .
1849.8? 4	(13/2 ⁻) [#]	E	
1894.45 5	(7/2,9/2)	A	J ^π : log ft=7.6 from 7/2 ⁺ ; γ to 11/2 ⁻ .
1927.294 23	(5/2 ⁺ ,7/2 ⁺)	A	J ^π : γ's to 3/2 ⁺ and 9/2 ⁺ .
1968.323 17	(9/2) ⁺	A	J ^π : γ's to 5/2 ⁺ and 11/2 ⁻ ; γγ(θ).
2045.892 24	(5/2 ⁺ ,7/2 ⁺)	A	J ^π : (M1+E2) γ to 5/2 ⁺ ; log ft=7.2 from 7/2 ⁺ .
2048.55 7		A	
2058.4 6	(19/2 ⁻) [#]	E	
2092.943 22	(7/2 ⁻ ,9/2) [‡]	A	
2112.4 5	(5/2) ⁺	A D	XREF: D(2100). J ^π : L(d,t)=2; possible β feeding from 7/2 ⁺ .
2151.52 10		A	
2168.9? 8	(17/2 ⁻) [#]	E	
2233.041 19	(9/2 ⁺)	A	J ^π : (M1+E2) γ to 7/2 ⁺ ; intense γ to 11/2 ⁻ ; γγ(θ).
2255.479 17	(7/2 ⁺)	A	J ^π : (M1+E2) γ's to 5/2 ⁺ and 7/2 ⁺ ; γγ(θ).
2356.5 8		E	
2357.24 3	(9/2 ⁺)	A	J ^π : γ's to 5/2 ⁺ , (11/2) ⁺ and 11/2 ⁻ .
2371.99 4	7/2 ⁽⁺⁾ ,9/2 ⁽⁺⁾	A	J ^π : log ft=5.9 from 7/2 ⁺ ; γ's to 7/2 ⁺ and 11/2 ⁻ .
2387.5? 11		E	
2408.66 3	(5/2,7/2 ⁺) [‡]	A	
2447.30 8		A	
2466.11 9	(7/2 ⁺)	A	J ^π : γ's to 3/2 ⁺ and (11/2) ⁺ .
2475.08 5	(7/2 ⁻ ,9/2) [‡]	A	
2477.87? 20	(5/2)	A	J ^π : log ft=7.0 from 7/2 ⁺ ; γ to 1/2 ⁺ .
2570.7 8		E	
2710.6? 11		E	
3169.9 9		E	

[†] From least-squares fit to Eγ's. Six resonances at E(n)=0.33900, 1.0006, 2.1860, 6.315, 7.260 and 9.383 keV are listed in the dataset: $^{134}\text{Xe}(n,\gamma)$:resonances.

[‡] From the deexcitation pattern and log ft value.

[#] From shell-model predictions (2007Fo03).

Adopted Levels, Gammas (continued)

$E_i(\text{level})$	J_i^π	$\gamma(^{135}\text{Xe})$		E_f	J_f^π	Mult. #	$\delta^@$	$\alpha^\&$	Comments
		$E_\gamma^\dagger$	$I_\gamma^\dagger$						
288.455	1/2 ⁺	288.451 16	100	0.0	3/2 ⁺	[M1,E2]		0.0463 14	$\alpha(\text{K})=0.0389$ 6; $\alpha(\text{L})=0.0059$ 9; $\alpha(\text{M})=0.00121$ 20; $\alpha(\text{N}+..)=0.00028$ 4
526.551	11/2 ⁻	526.561 17	100	0.0	3/2 ⁺	M4		0.237	$\alpha(\text{N})=0.00025$ 4; $\alpha(\text{O})=2.9\times 10^{-5}$ 4 B(M4)(W.u.)=3.292 22 $\alpha(\text{K})=0.191$ 3; $\alpha(\text{L})=0.0364$ 5; $\alpha(\text{M})=0.00770$ 11; $\alpha(\text{N}+..)=0.001777$ 25 $\alpha(\text{N})=0.001587$ 23; $\alpha(\text{O})=0.000190$ 3
1131.512	7/2 ⁺	1131.511 18	100	0.0	3/2 ⁺	E2		1.25 $\times 10^{-3}$	E_γ : from ^{135}I β^- decay. $\alpha(\text{K})=0.001074$ 15; $\alpha(\text{L})=0.0001359$ 19; $\alpha(\text{M})=2.75\times 10^{-5}$ 4; $\alpha(\text{N}+..)=7.61\times 10^{-6}$ 11 $\alpha(\text{N})=5.67\times 10^{-6}$ 8; $\alpha(\text{O})=7.06\times 10^{-7}$ 10; $\alpha(\text{IPF})=1.232\times 10^{-6}$ 18
1260.416	5/2 ⁺	971.96 [‡] 1260.409 17	3.1 1 100.0 6	288.455 0.0	1/2 ⁺ 3/2 ⁺	M1+E2	+0.56 5	1.22 $\times 10^{-3}$ 2	$\alpha(\text{K})=0.001043$ 17; $\alpha(\text{L})=0.0001285$ 20; $\alpha(\text{M})=2.59\times 10^{-5}$ 4; $\alpha(\text{N}+..)=2.04\times 10^{-5}$ 3 $\alpha(\text{N})=5.37\times 10^{-6}$ 9; $\alpha(\text{O})=6.76\times 10^{-7}$ 11; $\alpha(\text{IPF})=1.435\times 10^{-5}$ 21
1448.36	(3/2 ⁺)	1159.9 2 1448.35 10	33 8 100 9	288.455 0.0	1/2 ⁺ 3/2 ⁺				
1457.566	5/2 ⁺	197.19 7	0.38 3	1260.416	5/2 ⁺	[M1,E2]		0.146 23	$\alpha(\text{K})=0.120$ 14; $\alpha(\text{L})=0.021$ 8; $\alpha(\text{M})=0.0044$ 16; $\alpha(\text{N}+..)=0.0010$ 4 $\alpha(\text{N})=0.0009$ 3; $\alpha(\text{O})=0.00010$ 3
		326.0 2 1169.04 4 1457.56 3	0.03 2 10.1 3 100.0 7	1131.512 288.455 0.0	7/2 ⁺ 1/2 ⁺ 3/2 ⁺	M1,E2		0.00090 9	$\alpha(\text{K})=0.00072$ 8; $\alpha(\text{L})=8.9\times 10^{-5}$ 9; $\alpha(\text{M})=1.79\times 10^{-5}$ 19; $\alpha(\text{N}+..)=6.79\times 10^{-5}$ 13 $\alpha(\text{N})=3.7\times 10^{-6}$ 4; $\alpha(\text{O})=4.7\times 10^{-7}$ 5; $\alpha(\text{IPF})=6.37\times 10^{-5}$ 16
1543.70	(1/2 ⁺)	1254.8 10 1543.7 2	22 12 100 40	288.455 0.0	1/2 ⁺ 3/2 ⁺				
1565.288	9/2 ⁺	304.91 13 433.741 19	0.40 4 6.97 18	1260.416 1131.512	5/2 ⁺ 7/2 ⁺	(M1+E2)	-0.52 10	0.0154 3	$\alpha(\text{K})=0.01319$ 24; $\alpha(\text{L})=0.001732$ 25; $\alpha(\text{M})=0.000352$ 5; $\alpha(\text{N}+..)=8.16\times 10^{-5}$ 12 $\alpha(\text{N})=7.26\times 10^{-5}$ 11; $\alpha(\text{O})=9.01\times 10^{-6}$ 14 $\alpha(\text{K})=0.000553$ 8; $\alpha(\text{L})=6.68\times 10^{-5}$ 10; $\alpha(\text{M})=1.344\times 10^{-5}$ 19; $\alpha(\text{N}+..)=3.13\times 10^{-6}$ 5 $\alpha(\text{N})=2.78\times 10^{-6}$ 4; $\alpha(\text{O})=3.49\times 10^{-7}$ 5
		1038.760 21	100.0 11	526.551	11/2 ⁻	E1		6.37 $\times 10^{-4}$	
1678.065	(7/2 ⁺) ⁺	112.78 [‡] 220.502 15	≈ 0.132 18.3 3	1565.288 1457.566	9/2 ⁺ 5/2 ⁺	M1,E2		0.104 12	$\alpha(\text{K})=0.086$ 7; $\alpha(\text{L})=0.014$ 4; $\alpha(\text{M})=0.0030$ 9;

Adopted Levels, Gammas (continued)

$\gamma(^{135}\text{Xe})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult.#	$\delta^@$	$\alpha^\&$	Comments
1678.065	(7/2) ⁺	229.72 3	2.523 24	1448.36	(3/2) ⁺	[E2]		0.1006	$\alpha(\text{N}+..)=0.00067$ 19 $\alpha(\text{N})=0.00060$ 17; $\alpha(\text{O})=7.0\times 10^{-5}$ 16 $\alpha(\text{K})=0.0809$ 12; $\alpha(\text{L})=0.01570$ 22; $\alpha(\text{M})=0.00327$ 5; $\alpha(\text{N}+..)=0.000734$ 11 $\alpha(\text{N})=0.000660$ 10; $\alpha(\text{O})=7.37\times 10^{-5}$ 11 $\alpha(\text{K})=0.01319$ 21; $\alpha(\text{L})=0.00192$ 3; $\alpha(\text{M})=0.000394$ 6; $\alpha(\text{N}+..)=9.03\times 10^{-5}$ 13 $\alpha(\text{N})=8.06\times 10^{-5}$ 12; $\alpha(\text{O})=9.67\times 10^{-6}$ 14 $\alpha(\text{K})=0.00770$ 12; $\alpha(\text{L})=0.000971$ 14; $\alpha(\text{M})=0.000196$ 3; $\alpha(\text{N}+..)=4.58\times 10^{-5}$ 7 $\alpha(\text{N})=4.07\times 10^{-5}$ 6; $\alpha(\text{O})=5.11\times 10^{-6}$ 8 E_γ : from level-energy difference. $\alpha(\text{K})=0.000492$ 7; $\alpha(\text{L})=6.03\times 10^{-5}$ 9; $\alpha(\text{M})=1.216\times 10^{-5}$ 17; $\alpha(\text{N}+..)=0.0001517$ 22 $\alpha(\text{N})=2.52\times 10^{-6}$ 4; $\alpha(\text{O})=3.16\times 10^{-7}$ 5; $\alpha(\text{IPF})=0.0001488$ 21
		417.633 22	36.9 3	1260.416	5/2 ⁺	M1+E2	-1.86 20	0.01559 24	
		546.557 16	74.8 9	1131.512	7/2 ⁺	(M1+E2)	-0.14 5	0.00891	
		1151.51 ^a	<0.03	526.551	11/2 ⁻				
		1678.027 21	100.0 21	0.0	3/2 ⁺	(E2)		7.16×10 ⁻⁴	
1748.5	(15/2) ⁻	1221.9 4	100	526.551	11/2 ⁻				
1781.39	(11/2) ⁺	649.85 4	100 6	1131.512	7/2 ⁺				
		1254.8 10	1.3 7	526.551	11/2 ⁻				
1791.213	5/2 ⁺	113.15 [‡]	≈0.09	1678.065	(7/2) ⁺				
		247.5 3	0.37 11	1543.70	(1/2) ⁺				
		333.6 2	0.48 4	1457.566	5/2 ⁺				
		342.52 12	0.011 8	1448.36	(3/2) ⁺				
		530.8 4	0.4 2	1260.416	5/2 ⁺	(M1+E2)	-0.55 20	0.0091 3	$\alpha(\text{K})=0.0079$ 3; $\alpha(\text{L})=0.001018$ 22; $\alpha(\text{M})=0.000206$ 5; $\alpha(\text{N}+..)=4.80\times 10^{-5}$ 11 $\alpha(\text{N})=4.27\times 10^{-5}$ 9; $\alpha(\text{O})=5.31\times 10^{-6}$ 14
		1502.79 4	13.9 4	288.455	1/2 ⁺				
		1791.196 21	100.0 4	0.0	3/2 ⁺				
1849.8?	(13/2) ⁻	1323.2 ^a 4	100	526.551	11/2 ⁻				
1894.45	(7/2,9/2)	1367.89 4	100	526.551	11/2 ⁻				
1927.294	(5/2 ⁺ ,7/2 ⁺)	361.85 13	63 8	1565.288	9/2 ⁺				
		795.5 4	8 8	1131.512	7/2 ⁺				
		1927.30 3	100 4	0.0	3/2 ⁺				
1968.323	(9/2) ⁺	290.27 4	4.6 3	1678.065	(7/2) ⁺	[M1,E2]		0.0455 13	$\alpha(\text{K})=0.0382$ 6; $\alpha(\text{L})=0.0058$ 9; $\alpha(\text{M})=0.00118$ 19; $\alpha(\text{N}+..)=0.00027$ 4 $\alpha(\text{N})=0.00024$ 4; $\alpha(\text{O})=2.9\times 10^{-5}$ 3
		403.03 4	3.48 5	1565.288	9/2 ⁺				
		707.92 4	9.9 5	1260.416	5/2 ⁺				
		836.804 16	100.0 13	1131.512	7/2 ⁺	(M1+E2)	+3.58 10	0.00248	$\alpha(\text{K})=0.00213$ 3; $\alpha(\text{L})=0.000278$ 4;

Adopted Levels, Gammas (continued)

$\gamma(^{135}\text{Xe})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult.#	$\delta^\text{@}$	$\alpha^\&$	Comments
									$\alpha(\text{M})=5.64\times 10^{-5}$ 8; $\alpha(\text{N}+..)=1.307\times 10^{-5}$ 19 $\alpha(\text{N})=1.163\times 10^{-5}$ 17; $\alpha(\text{O})=1.436\times 10^{-6}$ 21
1968.323	(9/2) ⁺	1441.8 5	0.26 18	526.551	11/2 ⁻				
2045.892	(5/2 ⁺ , 7/2 ⁺)	254.74 13	2.6 10	1791.213	5/2 ⁺				
		588.28 6	5.9 17	1457.566	5/2 ⁺				
		785.48 5	17.4 20	1260.416	5/2 ⁺	(M1+E2)	-0.56 10	0.00352 8	$\alpha(\text{K})=0.00304$ 7; $\alpha(\text{L})=0.000383$ 8; $\alpha(\text{M})=7.75\times 10^{-5}$ 16; $\alpha(\text{N}+..)=1.81\times 10^{-5}$ 4 $\alpha(\text{N})=1.60\times 10^{-5}$ 4; $\alpha(\text{O})=2.01\times 10^{-6}$ 5
		2045.88 3	100 3	0.0	3/2 ⁺				
2048.55		1521.99 13	100	526.551	11/2 ⁻				
2058.4	(19/2 ⁻)	309.9 4	100	1748.5	(15/2 ⁻)				
2092.943	(7/2 ⁻ , 9/2)	165.74 6	2.42 20	1927.294	(5/2 ⁺ , 7/2 ⁺)				
		414.83 3	23.3 12	1678.065	(7/2) ⁺				
		961.43 [‡]	11.3 20	1131.512	7/2 ⁺				
		1566.41 3	100.0 23	526.551	11/2 ⁻				
2112.4	(5/2) ⁺	2112.4 5	100	0.0	3/2 ⁺				
2151.52		2151.5 1	100	0.0	3/2 ⁺				
2168.9?	(17/2 ⁻)	319.1 ^a 6	100	1849.8?	(13/2 ⁻)				
2233.041	(9/2 ⁺)	184.49 8	0.57 6	2048.55					
		305.83 9	2.31 7	1927.294	(5/2 ⁺ , 7/2 ⁺)				
		451.63 3	7.7 4	1781.39	(11/2) ⁺				
		972.62 [‡]	29.4 7	1260.416	5/2 ⁺				
		1101.58 3	39.2 7	1131.512	7/2 ⁺	(M1+E2)	+1.82 20	0.00141 3	$\alpha(\text{K})=0.001218$ 23; $\alpha(\text{L})=0.000153$ 3; $\alpha(\text{M})=3.10\times 10^{-5}$ 6; $\alpha(\text{N}+..)=7.64\times 10^{-6}$ 14 $\alpha(\text{N})=6.40\times 10^{-6}$ 12; $\alpha(\text{O})=7.99\times 10^{-7}$ 15; $\alpha(\text{IPF})=4.36\times 10^{-7}$ 7
		1706.459 21	100 3	526.551	11/2 ⁻				
2255.479	(7/2 ⁺)	162.65 11	0.27 8	2092.943	(7/2 ⁻ , 9/2)				
		690.13 5	3.6 4	1565.288	9/2 ⁺				
		797.71 8	4.8 8	1457.566	5/2 ⁺				
		807.2 3	1.3 5	1448.36	(3/2 ⁺)				
		995.09 10	4.3 8	1260.416	5/2 ⁺	(M1+E2)	-1.14 30	0.00187 9	$\alpha(\text{K})=0.00161$ 8; $\alpha(\text{L})=0.000203$ 9; $\alpha(\text{M})=4.10\times 10^{-5}$ 17; $\alpha(\text{N}+..)=9.6\times 10^{-6}$ 4 $\alpha(\text{N})=8.5\times 10^{-6}$ 4; $\alpha(\text{O})=1.06\times 10^{-6}$ 5
		1124.00 3	100.0 8	1131.512	7/2 ⁺	(M1+E2)	-1.08 20	0.00144 5	$\alpha(\text{K})=0.00124$ 4; $\alpha(\text{L})=0.000155$ 5; $\alpha(\text{M})=3.13\times 10^{-5}$ 9; $\alpha(\text{N}+..)=8.23\times 10^{-6}$ 21 $\alpha(\text{N})=6.48\times 10^{-6}$ 19; $\alpha(\text{O})=8.12\times 10^{-7}$ 24; $\alpha(\text{IPF})=9.35\times 10^{-7}$ 16
		2255.457 22	17.0 6	0.0	3/2 ⁺				
2356.5		298.1 6	100	2058.4	(19/2 ⁻)				

Adopted Levels, Gammas (continued)

$\gamma(^{135}\text{Xe})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
2357.24	(9/2 ⁺)	264.26 9	31.7 5	2092.943	(7/2 ⁻ ,9/2)	2447.30		1315.77 11	88 23	1131.512	7/2 ⁺
		429.93 3	52 4	1927.294	(5/2 ⁺ ,7/2 ⁺)	2466.11	(7/2 ⁺)	684.6 2	32 12	1781.39	(11/2) ⁺
		575.97 8	22 4	1781.39	(11/2) ⁺			1334.8 2	44 12	1131.512	7/2 ⁺
		679.22 15	9.4 25	1678.065	(7/2) ⁺			2466.07 10	100 4	0.0	3/2 ⁺
		1096.86 10	15.3 25	1260.416	5/2 ⁺	2475.08	(7/2 ⁻ ,9/2)	1343.66 9	100 15	1131.512	7/2 ⁺
		1225.6 3	7.4 30	1131.512	7/2 ⁺			1948.49 5	81 8	526.551	11/2 ⁻
		1830.69 4	100 3	526.551	11/2 ⁻	2477.87?	(5/2)	2189.4 ^a 2	100 20	288.455	1/2 ⁺
2371.99	7/2 ⁽⁺⁾ ,9/2 ⁽⁺⁾	1240.47 3	100 3	1131.512	7/2 ⁺			2477.1 ^a 4	11.1 23	0.0	3/2 ⁺
		1845.3 4	0.6 3	526.551	11/2 ⁻	2570.7		512.3 6	100	2058.4	(19/2 ⁻)
2387.5?		218.5 ^a 9	100	2168.9?	(17/2 ⁻)	2710.6?		323.1 ^a 9	100 33	2387.5?	
2408.66	(5/2,7/2 ⁺)	616.9 2	4 2	1791.213	5/2 ⁺			541.8 ^a 9	<33	2168.9?	(17/2 ⁻)
		960.29 [‡]	4 3	1448.36	(3/2 ⁺)	3169.9		599.2 6	100 30	2570.7	
		2408.65 3	100 3	0.0	3/2 ⁺			813.4 9	75 20	2356.5	
2447.30		656.09 10	100 20	1791.213	5/2 ⁺						

[†] From either ¹³⁵I β^- decay or ²⁰⁸Pb(¹⁸O,F γ). Most levels are populated independently in the two datasets, low spins in β^- decay and high spins in (¹⁸O,F γ).

[‡] Component of a doublet, E_γ from level-energy difference. The γ -ray intensities are divided.

From ce data and/or $\gamma\gamma(\theta)$ in ¹³⁵I β^- . Large $\delta(Q/D)$ in $\gamma\gamma(\theta)$ and $\Delta\pi$ implies M1+E2.

@ From $\gamma\gamma(\theta)$ in ¹³⁵I β^- decay.

& 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.

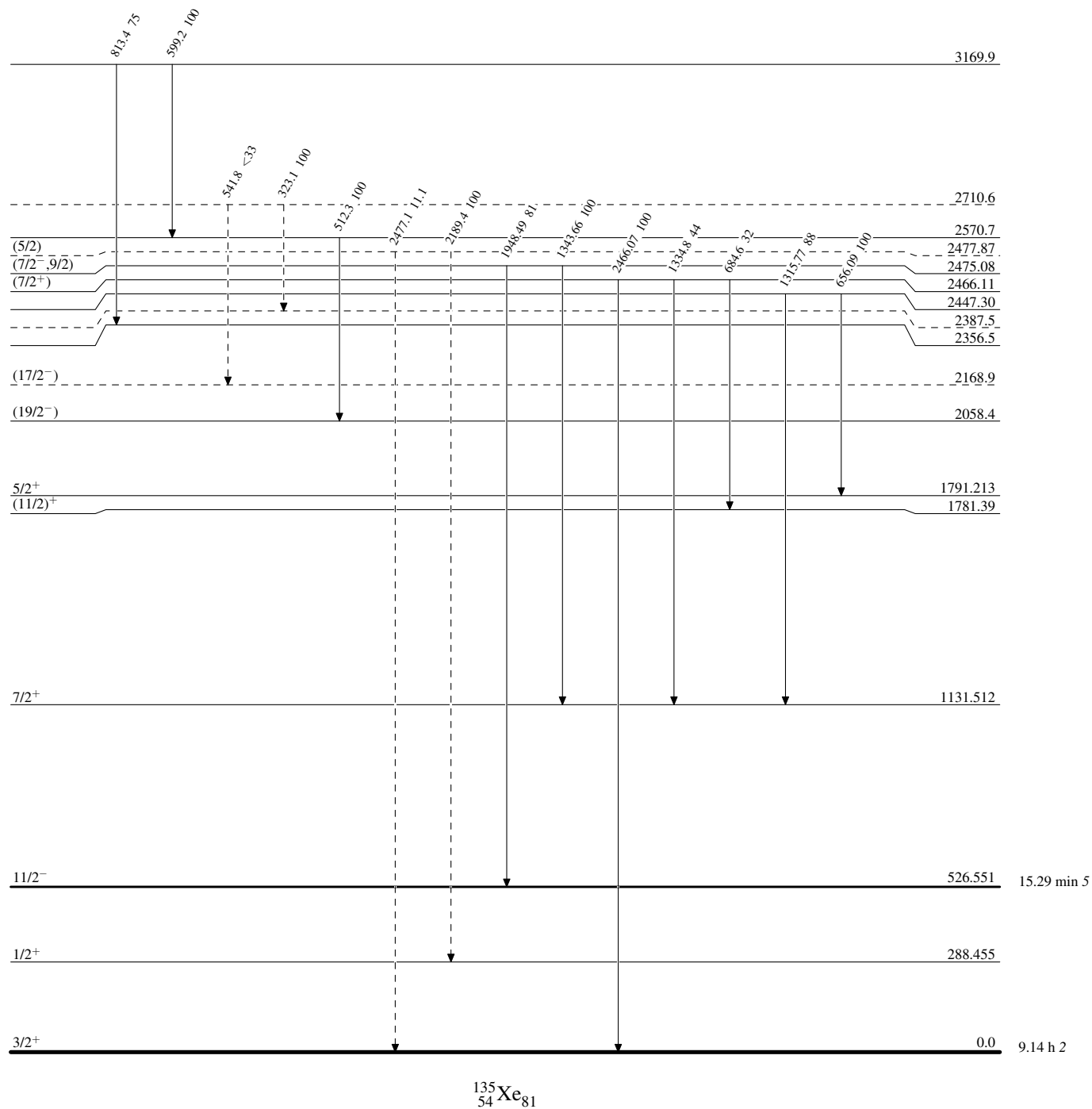
^a Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

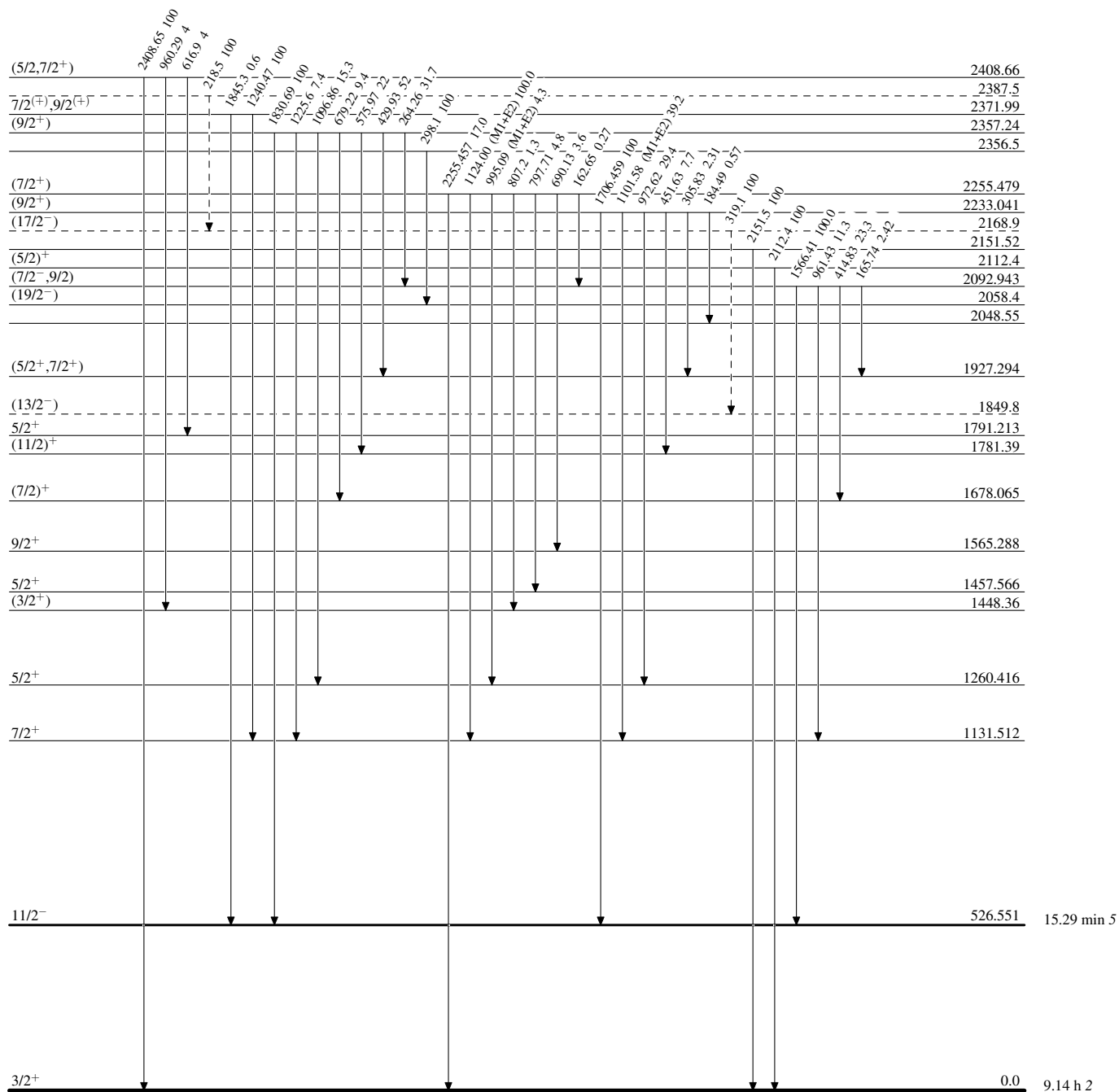
-----► γ Decay (Uncertain)

Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

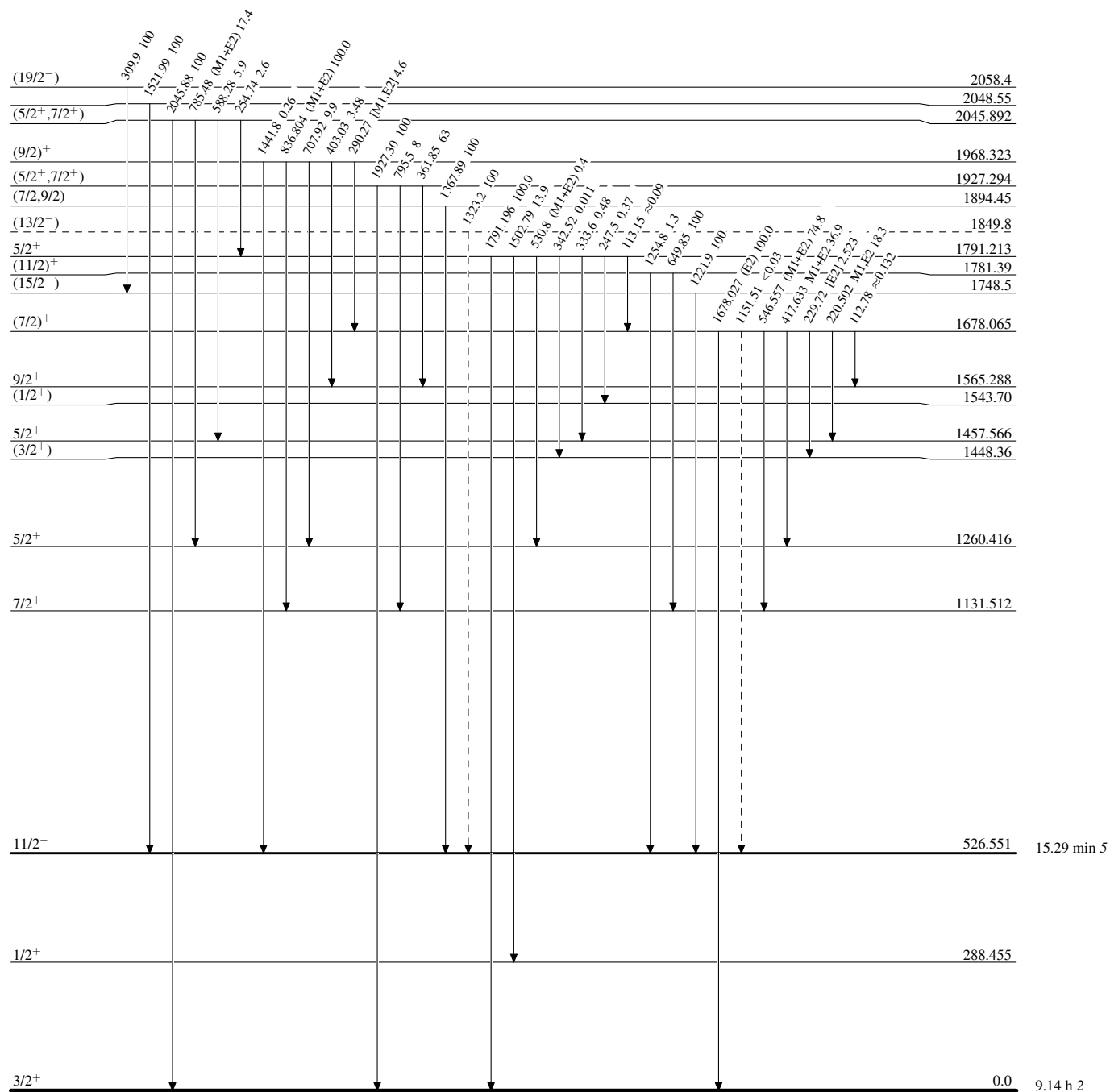
-----► γ Decay (Uncertain)

Adopted Levels, Gammas

Legend

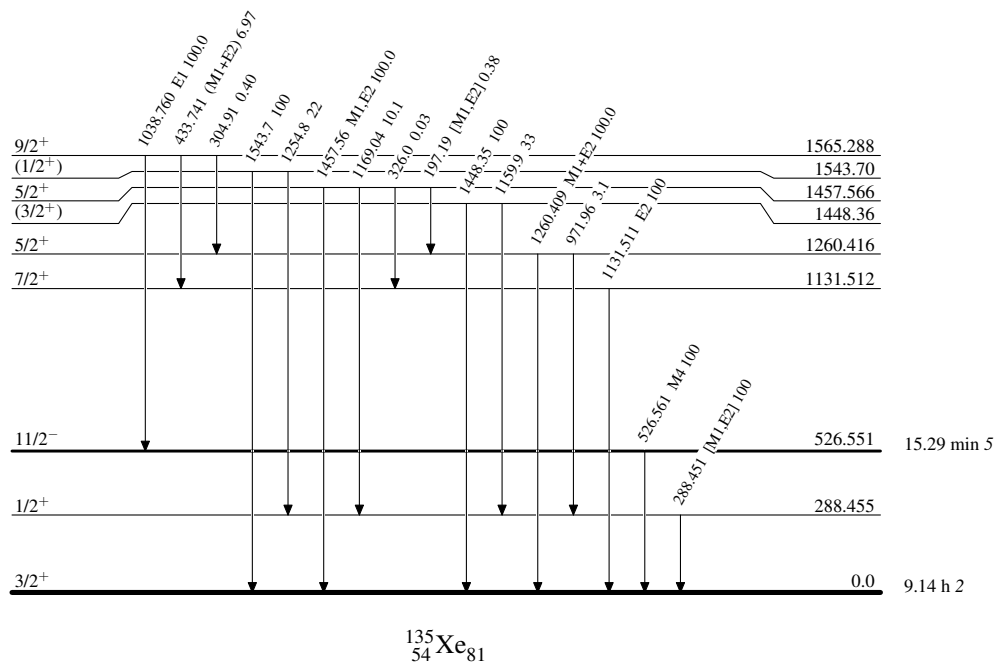
Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)

Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level

 $^{135}_{54}\text{Xe}_{81}$