

^{132}I β^- decay (2.295 h) [1978Ne08](#),[1973Si29](#),[1980Gi07](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh		NDS 104, 497 (2005)	10-Feb-2005

Parent: ^{132}I : $E=0.0$; $J^\pi=4^+$; $T_{1/2}=2.295$ h 13; $Q(\beta^-)=3581$ 6; $\% \beta^-$ decay=100.0

[1978Ne08](#): Measured E_γ , I_γ . Results of E_γ and I_γ from previous studies ([1971We15](#) and adopted values in [1970Ca04](#)) combined with their own results and also with independent I_γ measurements from the Livermore group using a chemically-separated ^{132}I source. The authors give averaged E_γ and I_γ as adopted values. Earlier papers from the same laboratory with some of the same authors: [1973Si29](#), [1972CaYF](#), [1970Ha11](#), [1970Ca04](#) and [1970Ha11](#).

[1973Si29](#): Detailed $\gamma\gamma$ coin data, which form the basis of the level scheme presented here.

[1980Gi07](#): $\gamma\gamma(\theta)$, $\gamma(\theta)$; oriented nuclei; Ge(Li) detectors.

[1971We15](#): measured E_γ , I_γ .

[1970Ca04](#), [1970Ha11](#): Measured E_γ , I_γ , $\gamma\gamma$, ce with Ge(Li) detectors and magnetic spectrometer. [1970Ca04](#) combine their results for E_γ and I_γ with those from [1969He18](#) (also [1967He03](#)), [1966Ar15](#) and [1967Yt01](#), and give weighted averaged results as adopted values. [1972CaYF](#) reported experimental K-conversion coefficients for three transitions.

[1970Ar12](#), [1969Ar05](#), [1967Ar12](#), [1967Yt01](#), [1966Ar15](#): measured E_γ , I_γ , $\gamma\gamma$.

[1969He18](#), [1967He03](#): γ , ce.

Others:

[1999Fo01](#): $\beta\gamma$ coin, deduced Q value.

[1983So04](#): $\gamma\gamma(\theta)$ using Ge(Li) and NaI(Tl) combination.

[1973De42](#): $\gamma\gamma(\theta, H)$, deduced g factor.

[1972Kr07](#), [1971Kr16](#): $\gamma(\theta)$, nuclear orientation; $\gamma\gamma(\theta)$ with Ge(Li) detectors.

[1972Be90](#), [1969Fr05](#): $\gamma\gamma(\theta)$.

[1965Jo13](#): E_γ , I_γ , ce, β , $\beta\gamma$.

[1965Iv03](#): ce.

[1965Bo23](#): $T_{1/2}$, ce.

[1963Ha34](#), [1962Wi14](#): ce.

[1962Ra04](#): $\gamma\gamma(\theta)$.

[1961Ro04](#): γ , β , $\beta\gamma$, $\gamma\gamma$, $\gamma\gamma(\theta)$.

[1961De17](#): γ , β , $\beta\gamma$, $\gamma\gamma$.

[1954Fi36](#): γ , β , $\beta\gamma$, $\gamma\gamma$.

Additional information 1.

[1951Ma76](#): γ , $\gamma\gamma$.

$T_{1/2}$ (isotope): [1966Ma56](#), [1965An05](#), [1958Ke26](#), [1955Wa35](#), [1954Em27](#). Others: [1974Ca26](#), [1965Si17](#), [1965Bo23](#), [1962Wi14](#), [1957Aa04](#), [1939Ab02](#), [1939Ha13](#).

The level scheme is from detailed $\gamma\gamma$ coin study of [1973Si29](#), extension of that proposed earlier in $\gamma\gamma$ coin data of [1970Ha11](#), [1970Ar12](#) (also [1967Ar12](#)) and earlier work.

 ^{132}Xe Levels

E(level)	J^π	E(level)	J^π	E(level)	J^π	E(level)	J^π
0.0	0^+	2187.27 17	2^+	2840.10 12	4^+	3192.78 14	(3^+)
667.7158 20	2^+	2303.46 15	(6^+)	2890.69 11	(4^+)	3213.95 20	$(3,4^+)$
1297.916 13	2^+	2350.63 9	5^+	2916.85 13	$(2^+,3,4^+)$	3226.72 20	$(3,4,5)$
1440.323 10	4^+	2394.99 7	4^+	2935.2 4		3237.2 3	$(3,4^+)$
1803.715 16	3^+	2424.78 12	3^+	2958.74 19	$(2^+,3,4^+)$	3260.9 3	$(3,4^+)$
1962.98 6	4^+	2583.78 10	5^+	3058.14 11	(3^+)	3320.4 4	$(3,4^+)$
1985.641 5	2^+	2588.69 9	(4^+)	3076.42 17	(3^+)	3353.4 3	$(4^+,5)$
2040.1? 4	(5^-)	2613.44 9	5^+	3084.4 5	$(3,4^+)$	3385.2 6	$(3,4^+)$
2110.26 6	4^+	2669.99 11	3^+	3112.08 20	$(3,4^+)$		
2111.86 16	6^+	2754.44 11	(4^+)	3121.8 3	(4^+)		
2167.10 15	5^+	2838.85 7	5^+	3155.6 3	$(3^+,4^+)$		

^{132}I β^- decay (2.295 h) **1978Ne08,1973Si29,1980Gi07 (continued)** β^- radiations

E(decay)	E(level)	$I\beta^-^\dagger$	Log ft	Comments
(196 6)	3385.2	0.0035 5	7.51 8	av $E\beta=53.6$ 18
(228 6)	3353.4	0.10 2	6.26 10	av $E\beta=63.1$ 19
(261 6)	3320.4	0.015 3	7.27 10	av $E\beta=73.3$ 19
(320 6)	3260.9	0.19 4	6.46 10	av $E\beta=92.2$ 20
(344 6)	3237.2	0.069 13	7.00 9	av $E\beta=99.9$ 20
(354 6)	3226.72	0.45 6	6.23 7	av $E\beta=103.3$ 20
(367 6)	3213.95	0.22 4	6.59 9	av $E\beta=107.5$ 20
(388 6)	3192.78	0.14 2	6.87 7	av $E\beta=114.6$ 21
(425 6)	3155.6	0.18 2	6.89 6	av $E\beta=127.2$ 21
(459 6)	3121.8	0.083 11	7.34 6	av $E\beta=138.9$ 21
(469 6)	3112.08	0.16 3	7.09 9	av $E\beta=142.2$ 21
(497 6)	3084.4	0.024 5	7.99 10	av $E\beta=151.9$ 22
(505 6)	3076.42	0.75 6	6.52 4	av $E\beta=154.8$ 22
(523 6)	3058.14	0.66 6	6.63 5	av $E\beta=161.3$ 22
(664 ‡ 6)	2916.85	<0.10	>7.8	av $E\beta=213.1$ 23
(690 6)	2890.69	0.90 6	6.91 4	av $E\beta=223.0$ 23
(741 6)	2840.10	1.28 5	6.87 2	av $E\beta=242.3$ 23
(742 6)	2838.85	13.0 8	5.86 3	av $E\beta=242.7$ 23
(827 6)	2754.44	0.35 4	7.60 5	av $E\beta=275.6$ 24
(911 6)	2669.99	3.4 2	6.77 3	av $E\beta=309.1$ 24
(968 6)	2613.44	8.2 4	6.48 3	av $E\beta=331.9$ 25
(992 6)	2588.69	2.73 12	7.00 2	av $E\beta=341.9$ 25
(997 6)	2583.78	3.2 2	6.94 3	av $E\beta=343.9$ 25
(1156 6)	2424.78	2.5 2	7.28 4	av $E\beta=409.6$ 26
(1186 6)	2394.99	19.0 5	6.44 2	av $E\beta=422.1$ 26
(1230 6)	2350.63	0.7 2	7.94 13	av $E\beta=440.8$ 26
(1394 ‡ 6)	2187.27	<0.08	>9.1	av $E\beta=510.5$ 26
(1414 6)	2167.10	0.8 6	8.1 4	av $E\beta=519.2$ 27
(1471 6)	2110.26	9.1 9	7.12 5	av $E\beta=543.8$ 26
(1541 6)	2040.1?	<0.12	>9.1	av $E\beta=574.3$ 27
(1618 6)	1962.98	12.3 6	7.15 2	av $E\beta=608.1$ 27
				E(decay): 1609 25 (1961De17).
(1777 ‡ 6)	1803.715	0.5 5	8.7 5	av $E\beta=678.6$ 27
(2141 6)	1440.323	19.0 20	7.44 5	av $E\beta=841.8$ 28
				E(decay): 2156 15 (1961De17), 2140 30 (1961Ro04), 2118 15 (1965Jo13).

 † Absolute intensity per 100 decays. ‡ Existence of this branch is questionable.

$\gamma(^{132}\text{Xe})$

I_γ normalization: From $\Sigma I(\gamma+\text{ce})=100$ to g.s.

$\alpha(\text{exp})=I_{\text{ce}}/I_\gamma$ normalized to 667.7, 772.6 and 809.5 E2 transitions. Ice(K) from 1970Ca04 and 1972CaYF. 1970Ca04 obtained averaged results from their measurements and those from 1969He18, 1965Jo13, 1965B023 and 1963Ha34.

$\gamma(\theta)$: oriented nuclei (1980Gi07).

A_2 and A_4 values from $\gamma(\theta, T)$ and $\gamma\gamma(\theta)$ are from 1980Gi07, unless otherwise stated. In $\gamma\gamma(\theta)$, the last E_γ stated in the cascade corresponds to the gate position.

A 351.8 γ with $I_\gamma=0.08$ 2 reported in 1970Ca04 is either an energy error or from background (1978Ne08). IT is not seen in $\gamma\gamma$ coin data of 1973Si29, thus omitted here.

The following γ 's from 1970Ca04 have been omitted since these are not confirmed in later studies: 1016.2 20 (0.05 3), 1065.5 7 (0.034 11), 1503.6 6 (0.009), 1738.0 (<0.018), 1747.0 (<0.018), 1803 (<0.002).

E_γ ^f	I_γ ^{f,d}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^b	δ ^c	α ^e	Comments
136.7 ^f 4	0.08 ^f 1	2303.46	(6 ⁺)	2167.10	5 ⁺	M1,E2		0.48 13	
136.7 ^f 4	0.08 ^f 1	2890.69	(4 ⁺)	2754.44	(4 ⁺)	M1,E2		0.48 13	$\alpha(\text{K})_{\text{exp}}=0.31$ 14
147.4 1	0.24 2	2110.26	4 ⁺	1962.98	4 ⁺	M1		0.279	$\alpha(\text{K})=0.2399$; $\alpha(\text{L})=0.0314$; $\alpha(\text{M})=0.00633$; $\alpha(\text{N}+..)=0.00160$
183.6 3	0.14 2	2350.63	5 ⁺	2167.10	5 ⁺	M1,E2		0.18 4	$\alpha(\text{K})_{\text{exp}}=0.14$ 3
^x 194.3& 5	0.09&								$\alpha(\text{K})_{\text{exp}}=0.15$ 4
234.3 6	0.03 1	3192.78	(3 ⁺)	2958.74	(2 ⁺ ,3,4 ⁺)				$I_\gamma: \leq 0.08$ (1978Ne08).
^x 241.2@& 5	0.05&								$I_\gamma: 0.25$ 2 (1978Ne08).
250.8 ^f 6	0.018 ^f 5	2838.85	5 ⁺	2588.69	(4 ⁺)				
250.8 ^f 6	0.018 ^f 5	2840.10	4 ⁽⁺⁾	2588.69	(4 ⁺)				
255.1 ^g 2	0.24 ^g 2	2838.85	5 ⁺	2583.78	5 ⁺	M1,E2			$\alpha(\text{K})_{\text{exp}}=0.061$ 15
255.1 ^g 3	<0.02 ^g	3213.95	(3,4 ⁺)	2958.74	(2 ⁺ ,3,4 ⁺)				
262.9 1	1.30 10	2613.44	5 ⁺	2350.63	5 ⁺	M1+E2	-0.16 5	0.0583	$\alpha(\text{K})=0.05016$ 5; $\alpha(\text{L})=0.00653$ 6; $\alpha(\text{M})=0.00131$; $\alpha(\text{N}+..)=0.00033$
									$\alpha(\text{K})_{\text{exp}}=0.047$ 7
									$\gamma(\theta): A_2=-0.34$ 4, $A_4=-0.06$ 6.
278.4 ^f 4	0.04 ^f 1	3213.95	(3,4 ⁺)	2935.2					
278.4 ^f 4	0.04 ^f 1	3237.2	(3,4 ⁺)	2958.74	(2 ⁺ ,3,4 ⁺)				
284.9 1	0.72 7	2394.99	4 ⁺	2110.26	4 ⁺	M1+E2	-0.26 3	0.0473	$\alpha(\text{K})=0.04057$; $\alpha(\text{L})=0.00533$ 3; $\alpha(\text{M})=0.00107$; $\alpha(\text{N}+..)=0.00027$
									$\alpha(\text{K})_{\text{exp}}=0.034$ 7
									$\gamma(\theta): A_2=-0.235$ 23, $A_4=-0.02$ 14.
^x 296.5& 6	≈ 0.016 &								$I_\gamma: \leq 0.02$ (1978Ne08).
302.0&h 7	≈ 0.005 &	3192.78	(3 ⁺)	2890.69	(4 ⁺)				
306.7 ^f 4	0.10 ^f 2	2110.26	4 ⁺	1803.715	3 ⁺				

$\gamma(^{132}\text{Xe})$ (continued)

E_γ [†]	I_γ ^{†d}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^b	δ ^c	α ^e	Comments
306.7 ^f 4	0.10 ^f 2	2890.69	(4 ⁺)	2583.78	5 ⁺				
310.1 ^f 4	0.09 ^f 2	2613.44	5 ⁺	2303.46	(6 ⁺)				
310.1 ^f 4	0.09 ^f 2	3226.72	(3,4,5)	2916.85	(2 ⁺ ,3,4 ⁺)				
316.7 4	0.13 2	3155.6	(3 ⁺ ,4 ⁺)	2838.85	5 ⁺				
343.7 4	0.09 2	3260.9	(3,4 ⁺)	2916.85	(2 ⁺ ,3,4 ⁺)				
355.2 ^{fh} 4	0.05 ^f 2	2394.99	4 ⁺	2040.1?	(5 ⁻)				
355.2 ^{fh} 4	0.05 ^f 2	3192.78	(3 ⁺)	2838.85	5 ⁺				
363.34 [‡] 5	0.5 1	1803.715	3 ⁺	1440.323	4 ⁺	(M1+E2)	+1.10 20	0.0239	$\alpha(\text{K})=0.02023$ 25; $\alpha(\text{L})=0.00292$ 3; $\alpha(\text{M})=0.00059$; $\alpha(\text{N}+..)=0.00015$ Additional information 5. δ : other: -0.23 2 (1983So04). $\gamma(\theta)$: $A_2=+1.11$ 7, $A_4=+0.2$ 11. (363 γ)(773 γ)(θ): $A_2=-0.12$ 2, $A_4=-0.02$ 4 (1983So04).
^x 376.6 4	0.010 5								
387.9 ^f 3	0.30 ^f 5	2350.63	5 ⁺	1962.98	4 ⁺	(M1+E2)			δ : -1.54 22 or -0.45 8. $\gamma(\theta)$: $A_2=+0.94$ 3, $A_4=+0.26$ 24.
387.9 ^f 3	0.30 ^f 5	3058.14	(3 ⁺)	2669.99	3 ⁺				
387.9 ^f 3	0.30 ^f 5	3226.72	(3,4,5)	2838.85	5 ⁺				
^x 402.6 & 6	0.023 &								
416.8 3	0.48 5	2583.78	5 ⁺	2167.10	5 ⁺	(M1+E2)	-1.70 23	0.0158	I_γ : ≤ 0.02 (1978Ne08). $\alpha(\text{K})=0.01335$ 16; $\alpha(\text{L})=0.00194$; $\alpha(\text{M})=0.00040$ $\gamma(\theta)$: $A_2=+0.336$ 20, $A_4=-0.33$ 9. $\alpha(\text{K})=0.01394$; $\alpha(\text{L})=0.00177$; $\alpha(\text{M})=0.00036$ $\gamma(\theta)$: $A_2=+0.477$ 23, $A_4=-0.01$ 16.
431.8 3	0.48 5	2394.99	4 ⁺	1962.98	4 ⁺	(M1+E2)	$+0.06$ 4	0.01616	I_γ : ≤ 0.1 (1978Ne08). $\alpha(\text{K})_{\text{exp}}=0.012$ 4
445.0 & h 6	0.1 &	2840.10	4 ⁽⁺⁾	2394.99	4 ⁺				
446.2 3	0.61 5	2613.44	5 ⁺	2167.10	5 ⁺	M1,E2			
473.6 4	0.17 4	2583.78	5 ⁺	2110.26	4 ⁺				
478.2 4	0.17 4	2588.69	(4 ⁺)	2110.26	4 ⁺				
488.0 ^f 4	0.42 ^f 5	2838.85	5 ⁺	2350.63	5 ⁺				
488.0 ^f 4	0.42 ^f 5	3076.42	(3 ⁺)	2588.69	(4 ⁺)	(M1+E2)	$+0.69$ 72		$\gamma(\theta)$: $A_2=-0.56$ 15, $A_4=0.0$ 7. δ : -0.03 to $+1.40$.
505.79 [‡] 3	5.0 2	1803.715	3 ⁺	1297.916	2 ⁺	M1+E2	$+7.5$ 6	0.00882	$\alpha(\text{K})=0.00740$; $\alpha(\text{L})=0.00107$ $\alpha(\text{K})_{\text{exp}}=0.0063$ 9 Additional information 6. δ : others: -0.1 to -3 (1972Kr07), -1.3 4 (1971Kr16). Alternative $\delta=+0.40$ 2 (1980Gi07) from $\gamma(\theta)$ is inconsistent with $\gamma\gamma(\theta)$ data. $\gamma(\theta)$: $A_2=-0.366$ 24, $A_4=+0.4$ 24. (506 γ)[630 γ](668 γ)(θ): $A_2=+0.13$ 3, $A_4=+0.04$ 4 (1971Kr16).
522.65 9	16.2 5	1962.98	4 ⁺	1440.323	4 ⁺	M1+E2	-0.09 1	0.01014	$\alpha(\text{K})=0.00869$; $\alpha(\text{L})=0.00109$

$\gamma(^{132}\text{Xe})$ (continued)

E_γ [†]	I_γ ^{†d}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^b	δ ^c	α ^e	Comments
									$\alpha(\text{K})_{\text{exp}}=0.0079$ 4 δ : others: -0.23 16 (1983So04), -0.28 to -0.54 (1980Gi07); -0.25 15 (1971Kr16). $\gamma(\theta)$: $A_2=-0.369$ 8, $A_4=-0.042$ 25. Additional information 8. $(523\gamma)(773\gamma)(668\gamma)(\theta)$: $A_2=+0.27$ 5, $A_4=-0.06$ 7. $(523\gamma)(773\gamma)(\theta)$: $A_2=+0.270$ 20, $A_4=+0.028$ 24. $\alpha(\text{K})=0.00819$; $\alpha(\text{L})=0.00103$ $\gamma(\theta)$: $A_2=+0.30$ 3, $A_4=+0.02$ 6.
535.4 3	0.52 5	2838.85	5 ⁺	2303.46	(6 ⁺)	(M1+E2)	+0.09 2	0.00956	
539.7 ^{fh} 4	0.11 ^f 2	2890.69	(4 ⁺)	2350.63	5 ⁺				
539.7 ^{fh} 4	0.11 ^f 2	3121.8	(4 ⁺)	2583.78	5 ⁺				
547.2 2	1.15 8	2350.63	5 ⁺	1803.715	3 ⁺	E2		0.00708	$\alpha(\text{K})=0.00596$; $\alpha(\text{L})=0.00084$ $\alpha(\text{K})_{\text{exp}}\leq 0.004$ $\gamma(\theta)$: $A_2=-0.416$ 24, $A_4=-0.22$ 10.
559.7 4	0.09 2	2669.99	3 ⁺	2110.26	4 ⁺				
572.5 ^{fh} 4	0.06 ^f 2	2613.44	5 ⁺	2040.1?	(5 ⁻)				
572.5 ^{fh} 4	0.06 ^f 2	3155.6	(3 ⁺ ,4 ⁺)	2583.78	5 ⁺				
591.1 ^f 6	0.07 ^f 3	2394.99	4 ⁺	1803.715	3 ⁺				
591.1 ^f 6	0.07 ^f 3	3260.9	(3,4 ⁺)	2669.99	3 ⁺				
600.0 ^f 6	0.13 ^f 3	2040.1?	(5 ⁻)	1440.323	4 ⁺				
600.0 ^f 6	0.13 ^f 3	3213.95	(3,4 ⁺)	2613.44	5 ⁺				
^x 609.8 ^{#a} 5	0.04 ^a 1								
620.9 2	0.4 2	2583.78	5 ⁺	1962.98	4 ⁺				
621.2 3	1.6 2	2424.78	3 ⁺	1803.715	3 ⁺	M1(+E2)			
630.19 [‡] 2	13.5 4	1297.916	2 ⁺	667.7158	2 ⁺	M1+E2	+4.07 16	0.00497	$\alpha(\text{K})_{\text{exp}}=0.0088$ 23 $\alpha(\text{K})=0.00420$; $\alpha(\text{L})=0.00057$ $\alpha(\text{K})_{\text{exp}}=0.0044$ 3 Additional information 2. δ : others: $+6.1$ +65-25 (1983So04); $+4.5$ +20-10 (1980Gi07); $+2$ +3-2 (1972Kr07); $+5.3$ +21-10 (1971Kr16). Alternative $\delta=-0.180$ 9 from $\gamma(\theta)$ (1980Gi07) is inconsistent with $\gamma\gamma(\theta)$ data. $\gamma(\theta)$: $A_2=-0.187$ 12, $A_4=-0.2$ 9 (1980Gi07); $A_2=+0.45$ 32 (1972Kr07). $(630\gamma)(668\gamma)(\theta)$: $A_2=-0.27$ 3, $A_4=+0.26$ 5. I_γ : ≤ 0.04 (1978Ne08). $\alpha(\text{K})=0.00497$; $\alpha(\text{L})=0.00063$ $\alpha(\text{K})_{\text{exp}}=0.0067$ 27 Additional information 16. $\gamma(\theta)$: $A_2=+0.85$ 3, $A_4=+0.10$ 4.
^x 642.4 ^{&} 5	0.035 ^{&}								
650.5 2	2.6 2	2613.44	5 ⁺	1962.98	4 ⁺	M1+E2	-0.36 3	0.00580	$\alpha(\text{K})=0.00497$; $\alpha(\text{L})=0.00063$ $\alpha(\text{K})_{\text{exp}}=0.0067$ 27 Additional information 16. $\gamma(\theta)$: $A_2=+0.85$ 3, $A_4=+0.10$ 4.
^x 659.0 [#] 7	≤ 0.2								
667.714 [‡] 2	100	667.7158	2 ⁺	0.0	0 ⁺	E2		0.00421	$\alpha(\text{K})=0.00356$; $\alpha(\text{L})=0.00048$

$\gamma(^{132}\text{Xe})$ (continued)

E_γ [†]	I_γ ^{†d}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^b	δ^c	α^e	Comments
669.8 2	4.7 6	2110.26	4 ⁺	1440.323	4 ⁺	M1+E2			$\alpha(\text{K})_{\text{exp}}=0.0035$ 2 $\gamma(\theta)$: B ₂ U ₂ A ₂ =-0.052 5, B ₄ U ₄ A ₄ =-0.009 6 (1972Kr07). $\alpha(\text{K})_{\text{exp}}=0.0052$ 16 δ : +0.86 16 or +0.05 9.
671.4 2	3.5 10	2111.86	6 ⁺	1440.323	4 ⁺	E2		0.00415	$\gamma(\theta)$: A ₂ =-0.47 6, A ₄ =-0.24 26. $\alpha(\text{K})=0.00351$; $\alpha(\text{L})=0.00048$ $\alpha(\text{K})_{\text{exp}}=0.0060$ 25
684.4 ^{@h} 2	0.04 1	2669.99	3 ⁺	1985.641	2 ⁺				E _γ , I _γ : average of 1971We15 and livermore data In 1978Ne08 . I _γ =0.16 In spectrum of 1978Ne08 .
687.8 5	0.04 2	3112.08	(3,4 ⁺)	2424.78	3 ⁺				
706.4 7	≈0.02	2669.99	3 ⁺	1962.98	4 ⁺				
727.0 3	2.2 6	2167.10	5 ⁺	1440.323	4 ⁺	M1+E2			I _γ : 3.2 6 for 727.0 and 2.2 6 for 727.2 quoted In 1978Ne08 are reverse of those In 1973Si29 , from which the values are ADOPTED.
727.2 3	3.2 6	2838.85	5 ⁺	2111.86	6 ⁺	M1+E2			$\alpha(\text{K})_{\text{exp}}=0.0032$ 7 for a doublet: 727.0+727.2. $\alpha(\text{K})_{\text{exp}}=0.0032$ 7 for a doublet. δ : 1971Kr16 give -0.32 4, but 727γ is a doublet: 727.0+727.2. Additional information 20.
728.4 2	1.6 4	2838.85	5 ⁺	2110.26	4 ⁺	(M1+E2)	-4.1 4		(727γ)[671γ](773γ)(θ): A ₂ =+0.11 4, A ₄ =0.00 5 (1971Kr16). $\gamma(\theta)$: A ₂ =+0.45 4, A ₄ =+0.53 17.
771.7 ^h	0.02 2	2958.74	(2 ⁺ ,3,4 ⁺)	2187.27	2 ⁺				E _γ , I _γ : from 1973Si29 .
772.60 [‡] 1	76.6 13	1440.323	4 ⁺	667.7158	2 ⁺	E2		0.00294	$\alpha(\text{K})=0.00250$; $\alpha(\text{L})=0.00033$ $\alpha(\text{K})_{\text{exp}}=0.0028$ 2; $\alpha(\text{L})_{\text{exp}}=0.00040$ 9; $\alpha(\text{M})_{\text{exp}}=0.00018$ 4 Additional information 4.
780.0 2	1.20 4	2583.78	5 ⁺	1803.715	3 ⁺	(E2)		0.00288	$\gamma(\theta)$: B ₂ U ₂ A ₂ =-0.063 5, B ₄ U ₄ A ₄ =-0.007 6 (1972Kr07). (773γ)(668γ)(θ): A ₂ =+0.092 11, A ₄ =+0.023 16.
784.4 4	0.39 4	2588.69	(4 ⁺)	1803.715	3 ⁺	(M1+E2)	+1.2 5	0.0032 3	$\alpha(\text{K})=0.00244$; $\alpha(\text{L})=0.00032$ $\gamma(\theta)$: A ₂ =-0.421 19, A ₄ =-0.24 8. $\alpha(\text{K})=0.00277$ 23; $\alpha(\text{L})=0.00036$ δ : +0.72 to +1.72. $\gamma(\theta)$: A ₂ =-0.77 7, A ₄ =+0.20 26.
791.2 4	0.10 2	2754.44	(4 ⁺)	1962.98	4 ⁺				
809.5 2	2.6 3	2613.44	5 ⁺	1803.715	3 ⁺	E2		0.00263	$\alpha(\text{K})=0.00224$; $\alpha(\text{L})=0.00030$ $\alpha(\text{K})_{\text{exp}}=0.0032$ 7 $\gamma(\theta)$: A ₂ =-0.429 23, A ₄ =-0.25 10.
812.0 2	5.6 4	2110.26	4 ⁺	1297.916	2 ⁺	E2		0.00262	Additional information 17. $\alpha(\text{K})=0.00223$; $\alpha(\text{L})=0.00029$ $\alpha(\text{K})_{\text{exp}}=0.0023$ 3 $\gamma(\theta)$: A ₂ =-0.450 10, A ₄ =-0.36 6. (812γ)[630γ](668γ)(θ): A ₂ =+0.04 5, A ₄ =+0.05 7. (812γ)(630γ)(θ): A ₂ =+0.07 6, A ₄ =+0.02 8. Additional information 10.
831.3 5	0.025 10	3226.72	(3,4,5)	2394.99	4 ⁺				

$\gamma(^{132}\text{Xe})$ (continued)

E_γ ^{†}	I_γ ^{†d}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^{b}	δ ^{c}	α ^{e}	Comments
847.9 ⁵	0.017 ⁵	2958.74	(2 ⁺ ,3,4 ⁺)	2110.26	4 ⁺				
863.0 ²	0.57 ⁵	2303.46	(6 ⁺)	1440.323	4 ⁺	(E2)		0.00227	$\alpha(\text{K})=0.00194$; $\alpha(\text{L})=0.00025$ $\gamma(\theta)$: $A_2=-0.382$ 25, $A_4=-0.18$ 11.
866.0 ^{f 6}	0.036 ^{f 14}	2669.99	3 ⁺	1803.715	3 ⁺				
866.0 ^{f 6}	0.036 ^{f 14}	3260.9	(3,4 ⁺)	2394.99	4 ⁺				
876.6 ²	1.05 ⁴	2840.10	4 ⁽⁺⁾	1962.98	4 ⁺	(M1+E2)	-1.2 ⁵	0.00251	$\alpha(\text{K})=0.00214$ 18; $\alpha(\text{L})=0.00027$ δ : from (877 γ)[523 γ](773 γ)(θ): $A_2=+0.13$ 7, $A_4=+0.15$ 11 (1983So04).
886.1 ⁵	0.025 ⁸	3237.2	(3,4 ⁺)	2350.63	5 ⁺				
888.7 ^{f 5}	0.035 ^{f 8}	2187.27	2 ⁺	1297.916	2 ⁺				I_γ : (n, γ) results suggest that most of the intensity of 889 γ is from 2187 level.
888.7 ^{f 5}	0.035 ^{f 8}	3076.42	(3 ⁺)	2187.27	2 ⁺				
904.4 ⁵	0.013 ⁴	2890.69	(4 ⁺)	1985.641	2 ⁺				
910.1 ²	0.94 ³	2350.63	5 ⁺	1440.323	4 ⁺	(M1+E2)	-1.27 22	0.00228 7	$\alpha(\text{K})=0.00195$ 6; $\alpha(\text{L})=0.00025$ $\gamma(\theta)$: $A_2=+1.02$ 6, $A_4=+0.29$ 12. (910 γ)[773 γ](668 γ)(θ): $A_2=-0.32$ 20, $A_4=+0.05$ 31. (910 γ)(773 γ)(θ): $A_2=-0.33$ 12, $A_4=-0.11$ 16. Additional information 12 .
927.4 ³	0.42 ⁴	2890.69	(4 ⁺)	1962.98	4 ⁺	(M1+E2)	-0.27 6	0.00255	$\alpha(\text{K})=0.00219$; $\alpha(\text{L})=0.00027$ $\gamma(\theta)$: $A_2=-0.22$ 5, $A_4=-0.10$ 15.
947.2 ⁶	0.045 ¹⁴	3058.14	(3 ⁺)	2110.26	4 ⁺				
954.55 ⁹	17.8 ⁵	2394.99	4 ⁺	1440.323	4 ⁺	M1+E2	-0.07 1	0.00243	$\alpha(\text{K})=0.00208$; $\alpha(\text{L})=0.00026$ $\alpha(\text{K})_{\text{exp}}=0.0020$ 2 δ : others: -0.03 3 (1983So04); -0.12 6 (1980Gi07); -0.15 5 (1971Kr16). $\gamma(\theta)$: $A_2=-0.386$ 6, $A_4=-0.03$ 4. Additional information 13 . (955 γ)[773 γ](668 γ)(θ): $A_2=+0.28$ 4, $A_4=+0.01$ 6. (955 γ)(773 γ)(θ): $A_2=+0.222$ 13, $A_4=+0.005$ 16.
965.8 ⁵	0.035 ⁸	3076.42	(3 ⁺)	2110.26	4 ⁺				
984.2 ²	0.60 ⁴	2424.78	3 ⁺	1440.323	4 ⁺	(M1+E2)	-0.28 1	0.00222	$\alpha(\text{K})=0.00191$; $\alpha(\text{L})=0.00024$ $\gamma(\theta)$: $A_2=-0.214$ 7, $A_4=+0.01$ 4.
995.8 ⁵	0.03 ¹	2958.74	(2 ⁺ ,3,4 ⁺)	1962.98	4 ⁺				
1002.5 ^{f 6}	0.026 ^{f 7}	3112.08	(3,4 ⁺)	2110.26	4 ⁺				
1002.5 ^{f 6}	0.026 ^{f 7}	3353.4	(4 ⁺ ,5)	2350.63	5 ⁺				
1005.4 ⁶	0.016 ⁵	3192.78	(3 ⁺)	2187.27	2 ⁺				
1009.0 ⁴	0.047 ⁷	3121.8	(4 ⁺)	2111.86	6 ⁺				
1035.0 ²	0.52 ⁵	2838.85	5 ⁺	1803.715	3 ⁺	(E2)		0.00152	$\alpha(\text{K})=0.00130$; $\alpha(\text{L})=0.00017$ $\gamma(\theta)$: $A_2=-0.43$ 3, $A_4=-0.25$ 19.
1049.6 ⁴	0.047 ¹²	3353.4	(4 ⁺ ,5)	2303.46	(6 ⁺)				
1081.8 ^{f 4}	0.035 ^{f 8}	3121.8	(4 ⁺)	2040.1?	(5 ⁻)				
1081.8 ^{f 4}	0.035 ^{f 8}	3192.78	(3 ⁺)	2110.26	4 ⁺				

$\gamma(^{132}\text{Xe})$ (continued)

E_γ ^{†}	I_γ ^{†d}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^{b}	δ ^{c}	α ^{e}	Comments
1086.2 4	0.08 2	2890.69	(4 ⁺)	1803.715	3 ⁺				
1096.9 4	0.045 8	2394.99	4 ⁺	1297.916	2 ⁺				
1112.4 4	0.066 15	2916.85	(2 ⁺ ,3,4 ⁺)	1803.715	3 ⁺				
1126.5 ^{f} 4	0.05 ^{f} 2	2424.78	3 ⁺	1297.916	2 ⁺				
1126.5 ^{f} 4	0.05 ^{f} 2	3112.08	(3,4 ⁺)	1985.641	2 ⁺				
1136.00 ^{‡} 2	3.05 14	1803.715	3 ⁺	667.7158	2 ⁺	M1+E2	+0.34 2	0.00159	$\alpha(\text{K})=0.00137$; $\alpha(\text{L})=0.00017$ $\alpha(\text{K})_{\text{exp}}=0.0015$ 3 Additional information 7. δ : others: +0.45 5 (1983So04); +0.22 +15-11 (1980Gi07); +0.9 3 (1971Kr16). $\gamma(\theta)$: $A_2=-0.29$ 3 , $A_4=-0.01$ 7 . (1136 γ)(668 γ)(θ): $A_2=+0.09$ 8 , $A_4=+0.18$ 12 .
1143.3 2	1.37 6	2583.78	5 ⁺	1440.323	4 ⁺	M1+E2	-0.20 2	0.00160	$\alpha(\text{K})=0.00137$; $\alpha(\text{L})=0.00017$ $\alpha(\text{K})_{\text{exp}}=0.0021$ 4 δ : others: -0.04 +4-9 (1971Kr16); -0.22 11 (1980Gi07). $\gamma(\theta)$: $A_2=+0.64$ 3 , $A_4=+0.03$ 4 . (1143 γ)[773 γ](668 γ)(θ): $A_2=-0.24$ 12 , $A_4=-0.16$ 18 . (1143 γ)(773 γ)(θ): $A_2=-0.21$ 8 , $A_4=+0.04$ 10 . Additional information 14.
1147.8 5	0.27 5	2588.69	(4 ⁺)	1440.323	4 ⁺				
1172.9 2	1.10 7	2613.44	5 ⁺	1440.323	4 ⁺	M1+E2	-0.57 2	0.00143	$\alpha(\text{K})=0.00123$; $\alpha(\text{L})=0.00015$ $\alpha(\text{K})_{\text{exp}}=0.0012$ 4 δ : others: -0.6 4 or -2.0 +9-60 (1983So04); -0.53 +22-11 (1980Gi07); -0.40 15 (1971Kr16). $\gamma(\theta)$: $A_2=+1.025$ 12 , $A_4=+0.16$ 6 . (1173 γ)[773 γ](668 γ)(θ): $A_2=-0.48$ 14 , $A_4=+0.16$ 28 . (1173 γ)(773 γ)(θ): $A_2=-0.42$ 11 , $A_4=-0.16$ 14 . Additional information 18. I_γ : 0.12 (1978Ne08).
^x 1206.7 ^{&@} 6	0.017 ^{&}								
^x 1212.3 ^{#} 4	0.012 3								
1242.6 ^{&h} 7	0.012 ^{&}	3353.4	(4 ⁺ ,5)	2110.26	4 ⁺				I_γ : ≤ 0.009 (1978Ne08).
1254.1 4	0.060 7	3058.14	(3 ⁺)	1803.715	3 ⁺	(M1+E2)	+1.71 9	0.00109	$\alpha(\text{K})=0.00093$; $\alpha(\text{L})=0.00012$ $\gamma(\theta)$: $A_2=-0.319$ 23 , $A_4=-0.26$ 13 .
1263.6 5	0.027 6	3226.72	(3,4,5)	1962.98	4 ⁺				
1272.8 4	0.17 2	3076.42	(3 ⁺)	1803.715	3 ⁺	(M1+E2)	+1.89 13	0.00105	$\alpha(\text{K})=0.00090$; $\alpha(\text{L})=0.00011$ $\gamma(\theta)$: $A_2=-0.28$ 3 , $A_4=-0.42$ 15 .
1290.8 2	1.14 5	2588.69	(4 ⁺)	1297.916	2 ⁺	(E2)		0.00096	$\alpha(\text{K})=0.00082$; $\alpha(\text{L})=0.00010$ Additional information 15. $\gamma(\theta)$: $A_2=-0.455$ 12 , $A_4=-0.31$ 9 . (1291 γ)[630 γ](668 γ)(θ): $A_2=+0.09$ 11 , $A_4=-0.12$ 12 . (1291 γ)(630 γ)(θ): $A_2=+0.17$ 13 , $A_4=+0.10$ 16 .
1295.1 2	1.90 7	1962.98	4 ⁺	667.7158	2 ⁺	(E2)		0.00095	$\alpha(\text{K})=0.00081$; $\alpha(\text{L})=0.00010$

$\gamma(^{132}\text{Xe})$ (continued)

E_γ ^{†}	I_γ ^{†d}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^{b}	δ ^{c}	α ^{e}	Comments
									$\gamma(\theta)$: $A_2=-0.437$ 8, $A_4=-0.31$ 5. $(1295\gamma)(668\gamma)(\theta)$: $A_2=+0.12$ 9, $A_4=+0.26$ 14. Additional information 9 . Additional information 3 .
1297.91 ^{‡} 2	0.90 7	1297.916	2 ⁺	0.0	0 ⁺				
1314.0 5	0.060 9	2754.44	(4 ⁺)	1440.323	4 ⁺				
1317.918 ^{‡} 6	0.120 15	1985.641	2 ⁺	667.7158	2 ⁺	(M1+E2)	-0.16 6		$\alpha(K)=0.00100$; $\alpha(L)=0.00012$ δ : +3.7 +10-6 is inconsistent with that from $\gamma\gamma(\theta)$ In (n, γ). $\gamma(\theta)$: $A_2=-0.22$ 7, $A_4=-0.2$ 7.
^x 1360.0 5	0.006 2								
1372.07 13	2.5 1	2669.99	3 ⁺	1297.916	2 ⁺	M1+E2	-0.13 1	0.00107	$\alpha(K)=0.00092$; $\alpha(L)=0.00011$ $\alpha(K)_{\text{exp}}=0.0010$ 2 Additional information 19 . $\gamma(\theta)$: $A_2=+0.583$ 6, $A_4=+0.009$ 25. $(1372\gamma)[630\gamma](668\gamma)(\theta)$: $A_2=-0.07$ 5, $A_4=+0.01$ 7 (1971Kr16).
1390.7 ^{@h} 7	0.015 10	3353.4	(4 ⁺ ,5)	1962.98	4 ⁺				
1398.57 10	7.1 2	2838.85	5 ⁺	1440.323	4 ⁺	M1+E2	+0.07 1	0.00103	$\alpha(K)=0.00088$; $\alpha(L)=0.00011$ $\alpha(K)_{\text{exp}}=0.00095$ 10 δ : others: +0.04 2 (1983So04); +0.08 3 (1980Gi07); +0.07 2 (1971Kr16). $\gamma(\theta)$: $A_2=+0.162$ 12, $A_4=0.00$ 6. $(1399\gamma)[773\gamma](668\gamma)(\theta)$: $A_2=-0.06$ 4, $A_4=+0.04$ 6. $(1399\gamma)(773\gamma)(\theta)$: $A_2=-0.009$ 23, $A_4=-0.01$ 3. Additional information 21 .
1410.6 3	0.044 7	3213.95	(3,4 ⁺)	1803.715	3 ⁺				
1442.56 10	1.42 5	2110.26	4 ⁺	667.7158	2 ⁺	E2		0.00076	$\alpha(K)=0.00066$ $\alpha(K)_{\text{exp}}=0.0014$ 8 Additional information 11 . $\gamma(\theta)$: $A_2=-0.455$ 10, $A_4=-0.32$ 7. $(1443\gamma)(668\gamma)(\theta)$: $A_2=+0.16$ 11, $A_4=-0.28$ 16.
1450.0 5	0.008 2	2890.69	(4 ⁺)	1440.323	4 ⁺				
1456.5 2	0.050 7	2754.44	(4 ⁺)	1297.916	2 ⁺				
1476.7 2	0.132 9	2916.85	(2 ⁺ ,3,4 ⁺)	1440.323	4 ⁺				
1519.6 2	0.080 5	2187.27	2 ⁺	667.7158	2 ⁺	(M1+E2)			δ : +2.4 5 or -0.03 7. $\gamma(\theta)$: $A_2=-0.39$ 9, $A_4=-0.2$ 8.
^x 1531.9 5	0.006 2								
1542.3 6	0.016 2	2840.10	4 ⁽⁺⁾	1297.916	2 ⁺				
^x 1559.0 4	0.009 2								
1592.9 3	0.048 4	2890.69	(4 ⁺)	1297.916	2 ⁺				
1617.9 2	0.010 5	3058.14	(3 ⁺)	1440.323	4 ⁺				
1618.9 3	0.007 5	2916.85	(2 ⁺ ,3,4 ⁺)	1297.916	2 ⁺				
1636.5 ^f 6	0.012 ^f 4	2935.2		1297.916	2 ⁺				

$^{132}\text{I}\beta^-$ decay (2.295 h) [1978Ne08](#),[1973Si29](#),[1980Gi07](#) (continued)

$\gamma(^{132}\text{Xe})$ (continued)								
E_γ ^{†}	I_γ ^{†d}	E_i (level)	J_i^π	E_f	J_f^π	Mult. ^{b}	δ^c	Comments
1636.5 ^{f} 6	0.012 ^{f} 4	3076.42	(3 ⁺)	1440.323	4 ⁺			
^x 1639.1 5	0.008 2							
1644.0 6	0.013 4	3084.4	(3,4 ⁺)	1440.323	4 ⁺			
1661.4 5	0.016 3	2958.74	(2 ⁺ ,3,4 ⁺)	1297.916	2 ⁺			
1671.3 4	0.022 4	3112.08	(3,4 ⁺)	1440.323	4 ⁺			
^x 1679.3 6	0.006 2							
1715.4 4	0.056 4	3155.6	(3 ⁺ ,4 ⁺)	1440.323	4 ⁺			
^x 1720.6 5	0.055 4							
1727.2 4	0.068 6	2394.99	4 ⁺	667.7158	2 ⁺	(E2)		$\gamma(\theta)$: $A_2=-0.47$ 8, $A_4=-0.3$ 5.
1752.3 7	0.025 8	3192.78	(3 ⁺)	1440.323	4 ⁺			
1757.4 2	0.30 3	2424.78	3 ⁺	667.7158	2 ⁺	(M1+E2)	+0.10 1	$\gamma(\theta)$: $A_2=+0.153$ 24, $A_4=+0.03$ 12.
1760.4 6	0.06 2	3058.14	(3 ⁺)	1297.916	2 ⁺			
^x 1768.5 8	0.025 8							
1778.5 4	0.080 8	3076.42	(3 ⁺)	1297.916	2 ⁺			
1786.5 ^{f} 6	0.011 ^{f} 2	3084.4	(3,4 ⁺)	1297.916	2 ⁺			
1786.5 ^{f} 6	0.011 ^{f} 2	3226.72	(3,4,5)	1440.323	4 ⁺			
1814.0 5	0.016 4	3112.08	(3,4 ⁺)	1297.916	2 ⁺			
^x 1830.1 5	0.028 5							
1879.2 5	0.014 3	3320.4	(3,4 ⁺)	1440.323	4 ⁺			
1913.7 5	0.03 1	3353.4	(4 ⁺ ,5)	1440.323	4 ⁺			
1921.08 12	1.25 6	2588.69	(4 ⁺)	667.7158	2 ⁺	(E2)		$\gamma(\theta)$: $A_2=-0.453$ 4, $A_4=-0.33$ 3.
^x 1925.7 ^{#} 10	0.002 1							
^x 1939.5 7	0.005 2							
1985.625 ^{‡} 6	0.012 2	1985.641	2 ⁺	0.0	0 ⁺			
2002.2 5	1.15 8	2669.99	3 ⁺	667.7158	2 ⁺	(M1+E2)	-0.73 11	$\gamma(\theta)$: $A_2=+1.086$ 7, $A_4=+0.19$ 3.
2086.82 15	0.26 2	2754.44	(4 ⁺)	667.7158	2 ⁺	(E2)		$\gamma(\theta)$: $A_2=-0.445$ 20, $A_4=-0.31$ 12.
2172.68 15	0.21 2	2840.10	4 ⁽⁺⁾	667.7158	2 ⁺	(E2)		$\gamma(\theta)$: $A_2=-0.46$ 3, $A_4=-0.28$ 17.
2187.0 6	0.007 3	2187.27	2 ⁺	0.0	0 ⁺			
^x 2204.2 ^{#a} 6	0.003 ^{a} 2							
2223.17 15	0.12 2	2890.69	(4 ⁺)	667.7158	2 ⁺	(E2)		$\gamma(\theta)$: $A_2=-0.46$ 4, $A_4=-0.29$ 21.
2249.1 3	0.034 2	2916.85	(2 ⁺ ,3,4 ⁺)	667.7158	2 ⁺			
2290.6 6	0.0036 8	2958.74	(2 ⁺ ,3,4 ⁺)	667.7158	2 ⁺			
^x 2304.4 ^{&} 8	≈ 0.015 ^{&}							I_γ : 0.0018 6 (1978Ne08).
2390.48 15	0.19 2	3058.14	(3 ⁺)	667.7158	2 ⁺			
2408.6 4	0.0095 8	3076.42	(3 ⁺)	667.7158	2 ⁺			
2417.1 ^{@h} 4	0.0014 6	3084.4	(3,4 ⁺)	667.7158	2 ⁺			E_γ, I_γ : from 1978Ne08 . $I_\gamma=0.01$ (1971We15).
2444.0 6	0.0057 8	3112.08	(3,4 ⁺)	667.7158	2 ⁺			
2454.8 4	0.0021 5	3121.8	(4 ⁺)	667.7158	2 ⁺			
2487.8 6	0.0008 2	3155.6	(3 ⁺ ,4 ⁺)	667.7158	2 ⁺			
2525.14 15	0.040 4	3192.78	(3 ⁺)	667.7158	2 ⁺	(M1+E2)	+0.46 5	$\gamma(\theta)$: $A_2=-0.45$ 6, $A_4=+1.1$ 3.
2546.5 6	0.0016 5	3213.95	(3,4 ⁺)	667.7158	2 ⁺			

¹³²I β⁻ decay (2.295 h) 1978Ne08,1973Si29,1980Gi07 (continued)

γ(¹³²Xe) (continued)

E _γ [†]	I _γ ^{‡d}	E _i (level)	J _i ^π	E _f	J _f ^π	Comments
2569.8 4	0.005 1	3237.2	(3,4 ⁺)	667.7158	2 ⁺	
2593.8 8	0.0012 3	3260.9	(3,4 ⁺)	667.7158	2 ⁺	
^x 2603.2 5	0.0015 3					
^x 2607.2 6	0.0010 3					
^x 2614.5 ^{#a} 4	0.0036 ^a 12					
2653.8 6	0.0010 3	3320.4	(3,4 ⁺)	667.7158	2 ⁺	
^x 2690.8 7	0.0010 3					
2717.5 6	0.0035 5	3385.2	(3,4 ⁺)	667.7158	2 ⁺	
^x 2757.8 7	0.0009 4					
^x 2766.1 ^{&} 8	0.0004 ^{&}					I _γ : <0.0004 (1978Ne08).

[†] Adopted values from 1978Ne08, unless otherwise stated. The adopted values in 1978Ne08 are from a weighted average of results of their own measurements, from 1971We15 and averaged results in 1970Ca04. The values in 1970Ca04 were an average of their results and from 1969He18, 1967He03, 1967Yt01 and 1966Ar15.

[‡] From ¹³²Cs ε decay. Corresponding values from ¹³²I decay agree but are less precise.

[#] Uncertain γ ray.

[@] Since intensities reported by different groups differ significantly, this γ May Be suspect.

[&] From 1971We15, considered As uncertain.

^a May Be from background.

^b From α(K)exp. The assignments given in parentheses are implied from Δ(J^π) and γγ(θ) and/or γ(θ,T) data.

^c From γ(θ,T) data of 1980Gi07, unless otherwise stated.

^d For absolute intensity per 100 decays, multiply by 0.987.

^e 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.

^f Multiply placed with undivided intensity.

^g Multiply placed with intensity suitably divided.

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

^x γ ray not placed in level scheme.

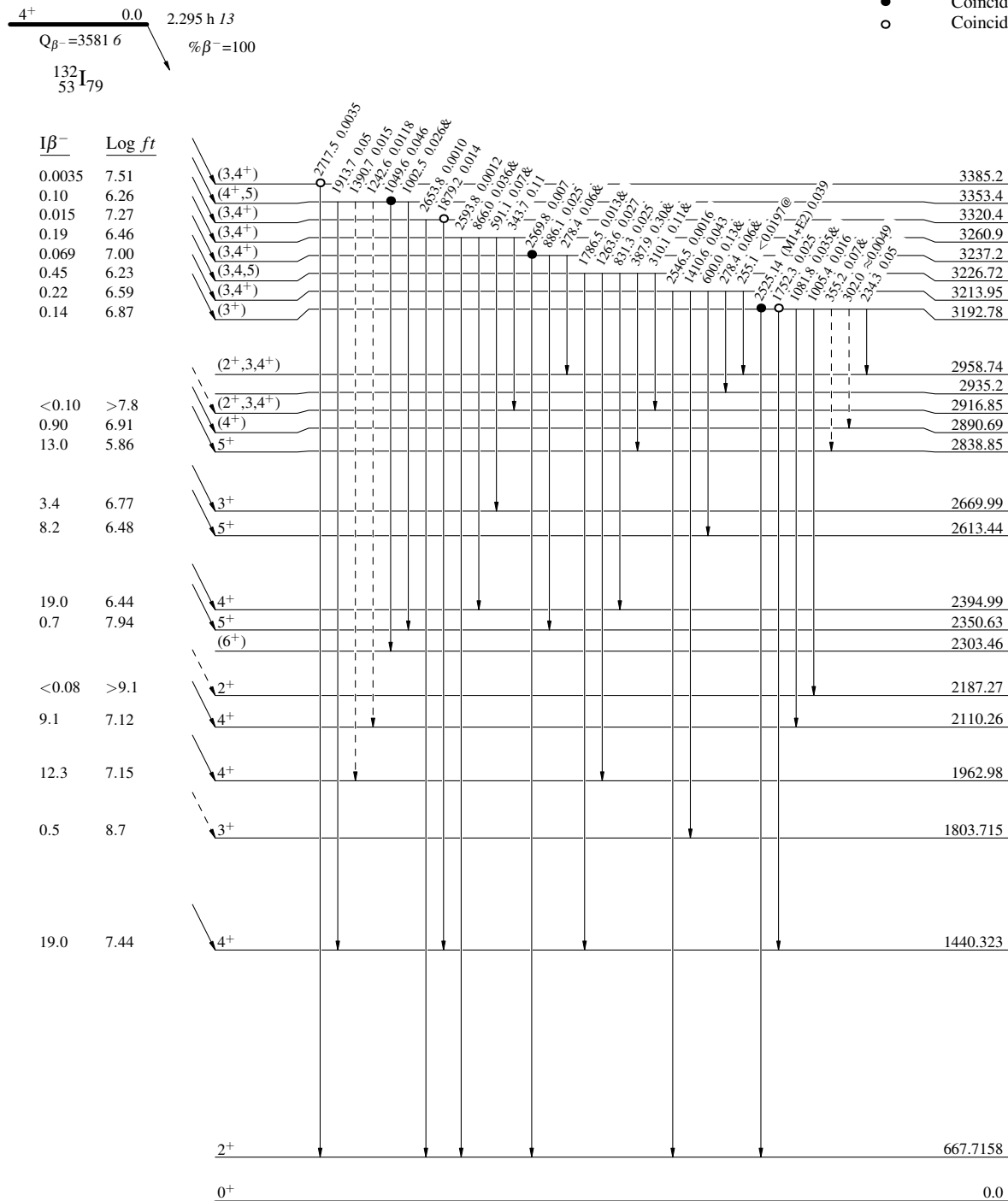
^{132}I β^- decay (2.295 h) 1978Ne08,1973Si29,1980Gi07

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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)
- Coincidence
- Coincidence (Uncertain)



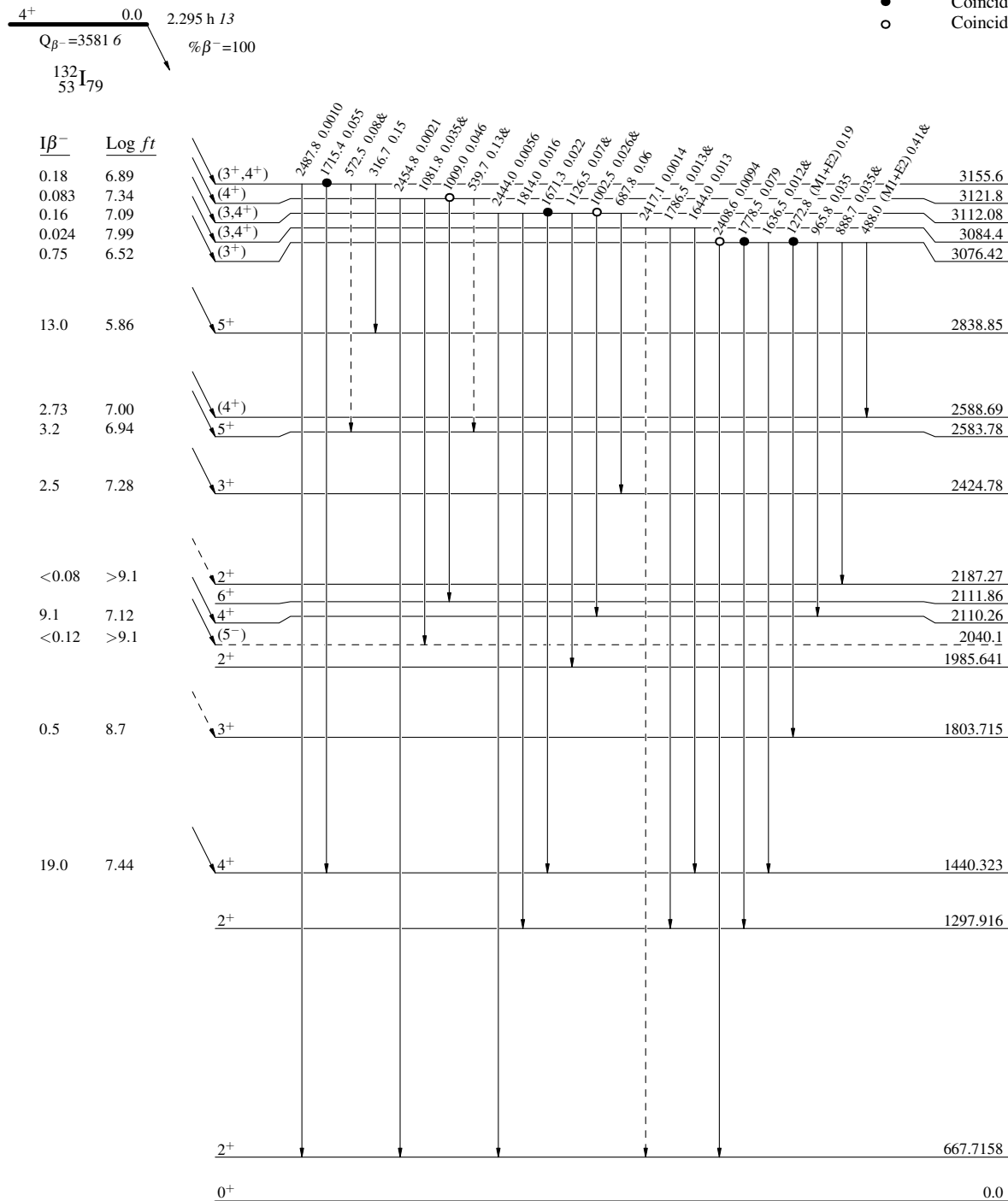
^{132}I β^- decay (2.295 h) 1978Ne08,1973Si29,1980Gi07

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided

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)
- Coincidence
- Coincidence (Uncertain)



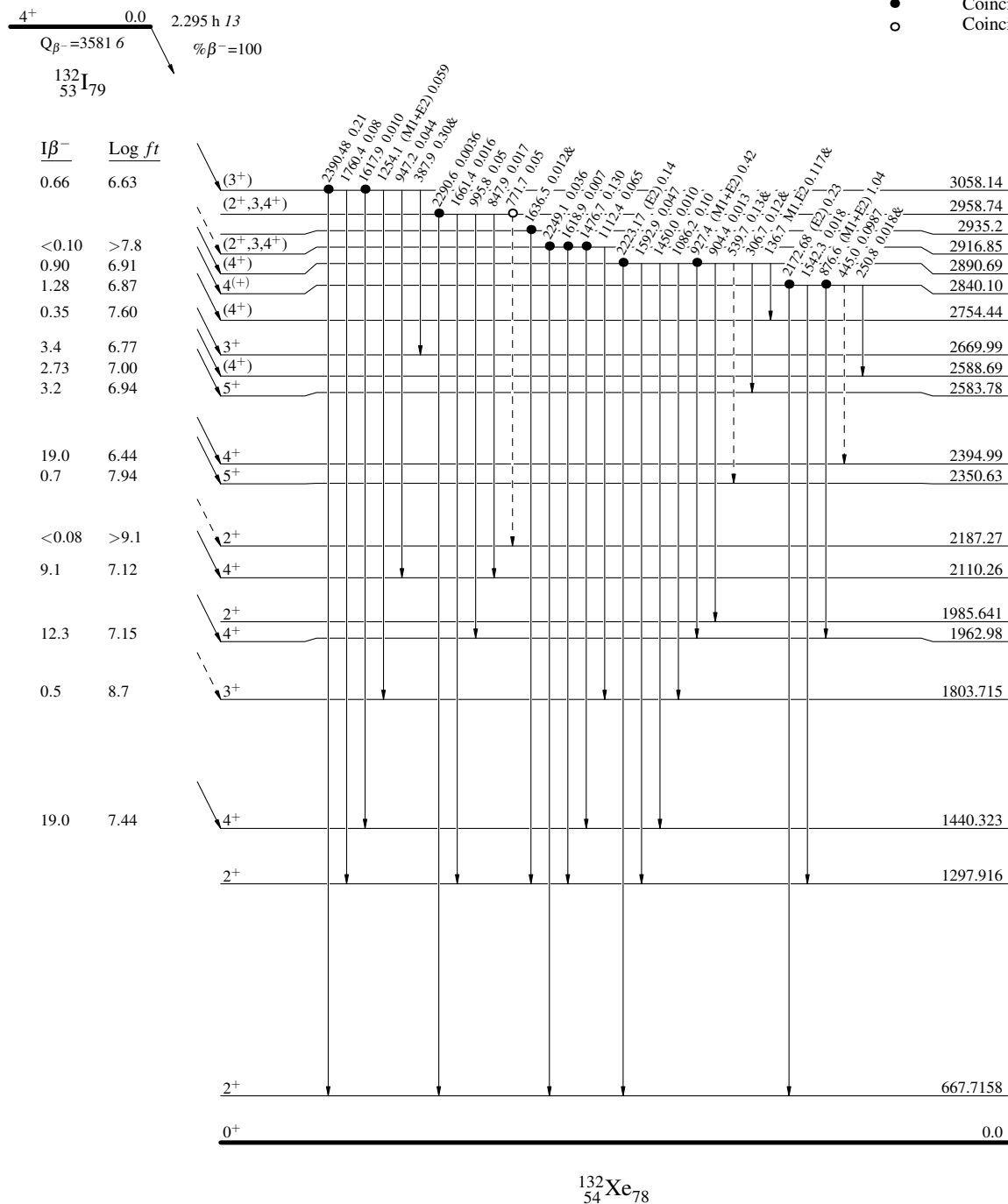
$^{132}\text{I} \beta^-$ decay (2.295 h) 1978Ne08,1973Si29,1980Gi07

Decay Scheme (continued)

Intensities: $I_{\gamma+ce}$ per 100 parent decays
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided

Legend

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



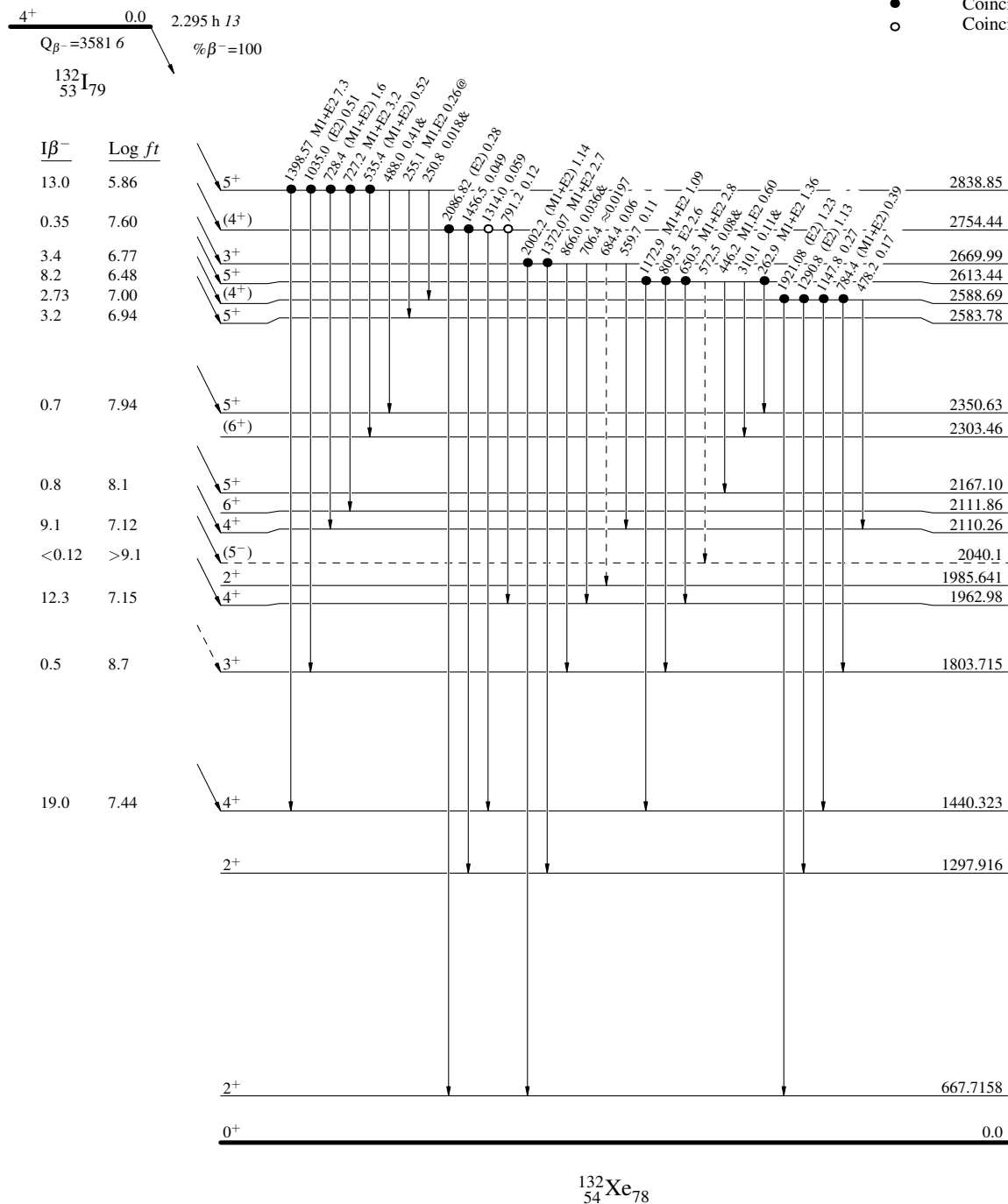
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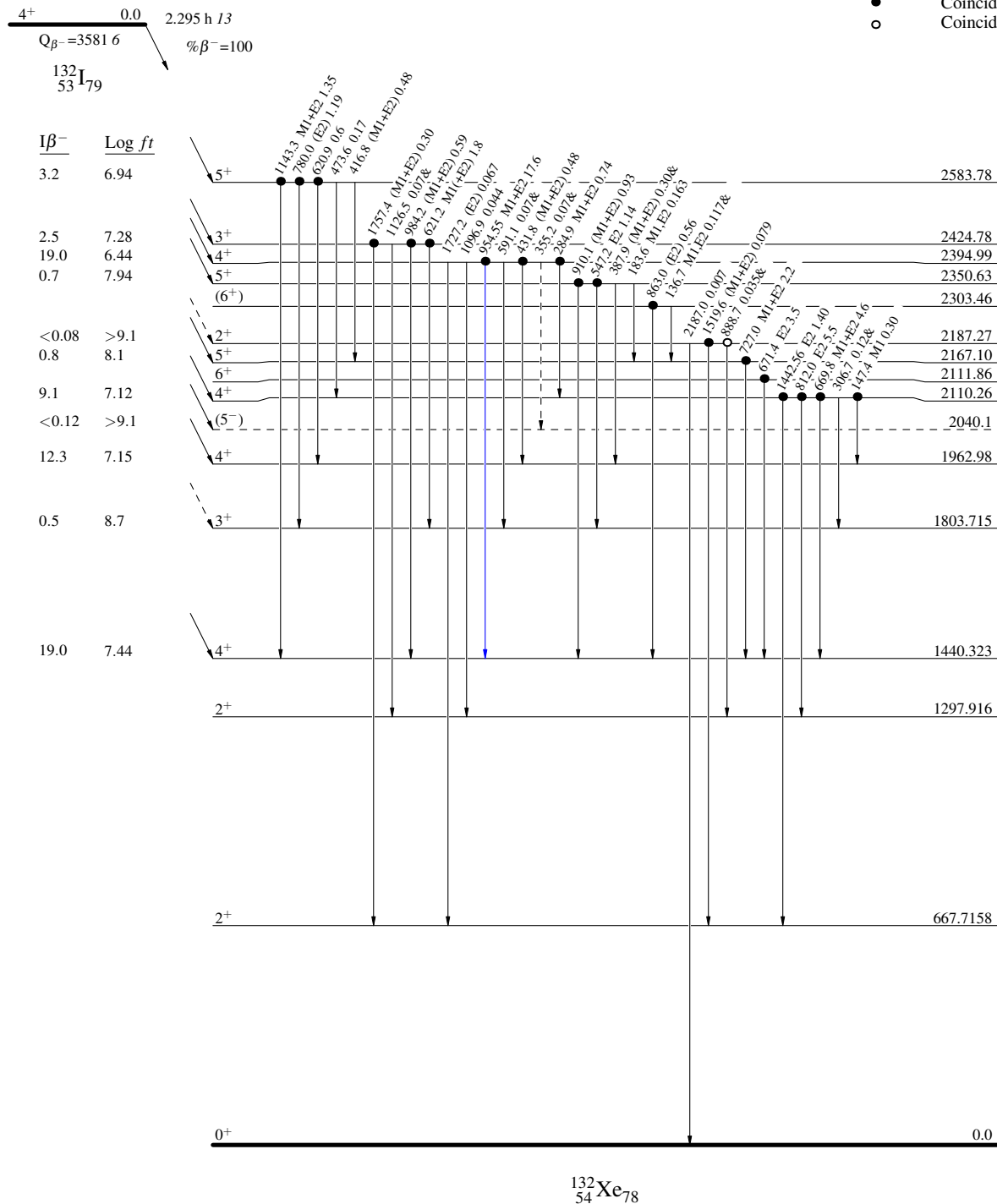
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Decay Scheme (continued)

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