		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 146, 1 (2017)	30-Sep-2017

 $Q(\beta^{-})=2915 \ 10; \ S(n)=5660 \ 3; \ S(p)=10905 \ 9; \ Q(\alpha)=137 \ 4$ 2017Wa10 S(2n)=9686 3, S(2p)=20125 4, $Q(2\beta^+)=8289 3$ (2017Wa10).

First identification of 138 Xe nuclide by 1943Se02 (see 2013Ka01).

Construction of ³²Xe nuclide by 1943Se02 (see 2015Ka01). Other reactions: 2005Ga25: 2000Ga60: ²³²Th,²³⁸U(γ,F) E=25 MeV, measured yields. 2000JoZZ,2000YoZS: ²³⁵U,²³⁸U(n,F), measured yields. 1998Ph04: ²³⁸U(n,F) E=1.5-3.5 MeV, measured σ.

¹³⁸Xe Levels

Cross Reference (XREF) Flags

		A B C	138 I β^{-} d 139 I β^{-} n 248 Cm SI	$\begin{array}{lll} \mbox{lecay} & \mbox{D} & {}^{252}\mbox{Cf SF decay} \\ \mbox{decay} & \mbox{E} & {}^{235}\mbox{U}(n,F\gamma), {}^{238}\mbox{U}(n,F\gamma) \\ \mbox{F decay} & \mbox{F} & \mbox{Coulomb excitation} \end{array}$					
E(level) [†]	J^{π}	T _{1/2}	XREF	Comments					
0.0 [‡]	0+	14.14 min 7	ABCDEF	$%β^-=100$ T _{1/2} : weighted average of 14.18 min <i>10</i> (2012Wa21), 14.08 min 8 (1972Mo33), 14.17 min 7 (1969Ca03), 14.0 min 2 (1964Cl01), 14.1 min 8 (1966Ar08), 14.5 min 5 (1965Pa14). Other: 1968To20. Additional information 1. Evaluated nuclear charge radius $^{1/2}=4.828$ fm 8 (2013An02).					
588.826 [‡] 18	2+	10.5 ps +38–22	ABCDEF	J ^{π} : 588.825 γ E2 to 0 ⁺ g.s. T _{1/2} : from preliminary B(E2)↑=0.38 <i>10</i> (2007Kr19) in Coulomb excitation. Other: 15 ps <i>11</i> from $\gamma\gamma$ (t) in (n,f γ).					
1072 53 [‡] 3	(4^{+})		ABCDE	I^{π} 484 700 γ (E2) to 2 ⁺ band structure					
1463.99 7	(2^+)		ABC E	J^{π} : 875.25 γ (M1+E2) to 2 ⁺ , 1463.98 γ to 0 ⁺ , systematics of N=84 nuclei.					
1554.6 [‡] 4	(6 ⁺)		CDE	J^{π} : 482.1 γ (E2) to (4 ⁺), band structure.					
1866.21 8	$(1,2^+)$		Α	J^{π} : 1277.45 γ to 2 ⁺ , 1866.20 γ to 0 ⁺ .					
1903.17 6	(2+,3,4+)		ACE	J^{π} : 439.04 γ to (2 ⁺), 830.69 γ to (4 ⁺), 1314.30 γ to 2 ⁺ . (4 ⁺) is proposed by 2000Ko15 in ²⁴⁸ Cm SF decay					
2015.48 8	(3 ⁻)		A	J^{π} : 942.89 γ to (4 ⁺), 1426.76 γ to 2 ⁺ ; systematics of N=84 nuclei suggest a J^{π} value of 3 ⁻ (1979Ho21) in ¹³⁸ I β^{-} decay.					
2114.67 12	$(1,2^+)$		A	J^{π} : 650.88 γ to (2 ⁺), 1525.83 γ to 2 ⁺ , 2114.7 γ to 0 ⁺ .					
2115.5 5			С						
2117.22 15			Α						
2212.54 13			Α						
2262.14 7	$(1,2^+)$		Α	J^{π} : 1673.28 γ to 2 ⁺ , 2262.20 γ to 0 ⁺ .					
2284.2 [‡] 6	(8^{+})		CDE	J^{π} : 729.6 γ (E2) to (6 ⁺), band structure.					
2293.2 4	(4+,5,6+)		CE	J^{π} : 738.6 γ to (6 ⁺), 1220.7 γ to (4 ⁺). (6 ⁺) is proposed by 2000Ko15 in ²⁴⁸ Cm SF decay.					
2331.92 13	$(2^+, 3, 4^+)$		A	J^{π} : 1259.1 γ to (4 ⁺), 1743.1 γ to 2 ⁺ .					
2334.07 12	$(1^{-},2,3)$		A	J^{π} : 318.6 γ to (3 ⁻), 1745.0 γ to 2 ⁺ .					
2391.0 7			СЕ						
2398.15 11	$(1,2^+)$		Α	J^{π} : 1809.28 γ to 2 ⁺ , 2398.16 γ to 0 ⁺ .					
2543.71 11	$(1,2^{+})$		Α	J^{π} : 1954.8 γ to 2 ⁺ , 2543.73 γ to 0 ⁺ .					
2572.42 11	$(1,2^{+})$		Α	J^{π} : 1108.29 γ to (2 ⁺), 2572.38 γ to 0 ⁺ .					
2644.8 <i>3</i>	$(1,2^+)$		Α	J^{π} : 2644.9 γ to 0 ⁺ .					

Adopted Levels, Gammas (continued)

¹³⁸Xe Levels (continued)

E(level) [†]	\mathbf{J}^{π}	XREF	Comments
2655.1 <i>6</i> 2674.26 <i>10</i> 2710 1 <i>7</i>	$(6^+,7,8^+) (1,2^+)$	C E A	J^{π} : 370.9 γ to (8 ⁺), 1100.5 γ to (6 ⁺). (8 ⁺) is proposed by 2000Ko15 in ²⁴⁸ Cm SF decay. J^{π} : 2085.43 γ to 2 ⁺ , 2674.0 γ to 0 ⁺ .
2794.37 <i>17</i> 2835.63 <i>15</i>	$(1,2^+)$ (1,2)	A A	J^{π} : 1331.2 γ to (2 ⁺), 2794.3 γ to 0 ⁺ . J^{π} : 1371.57 γ to (2 ⁺), 2835.64 γ to 0 ⁺ .
2890.61 20 2952.63 15	$(1,2^{+})$	A A	J^{π} : 2890.7 γ to 0 ⁺ .
2964.39 12	$(1,2^+)$	Α	J^{π} : 2376.0 γ to 2 ⁺ , 2964.4 γ to 0 ⁺ .
2972.2 [‡] 7 3224.7 7 3276.5 8 3354.7 7 3412 7 8	(10 ⁺)	CDE C C C	J^{π} : 687.9 γ (E2) to (8 ⁺), band structure.
3474.79 21	(2^{+})	A	J^{π} : 2402.24 γ to (4 ⁺), 3474.3 γ to 0 ⁺ .
3496.59 12	$(1,2^+)$	Α	J^{π} : 3496.3 γ to 0 ⁺ .
3516.51? 15	$(1,2^{+})$	Α	J^{π} : 3516.3 γ to 0 ⁺ .
3571.3 [‡] 8 3839.7 8 3876.7 9 3898 7 7	(12 ⁺)	CDE C C	J^{π} : 599.0 γ (E2) to (10 ⁺), band structure.
3899.05 11	$(1,2^{+})$	A	J^{π} : 3310.28 γ to 2 ⁺ , 3898.4 γ to 0 ⁺ .
3961.86 <i>11</i> 4084.6 <i>8</i>	(1 ⁻ ,2,3)	A C	J ^{π} : 1946.26 γ to (3 ⁻); direct feeding from (2 ⁻) parent in ¹³⁸ I β ⁻ decay.
4167.56 14	(1,2,3)	Α	J^{π} : direct feeding from (2 ⁻) parent in ¹³⁸ I β^{-} decay.
4182.01 12	$(1,2^+)$	A	J^{π} : 3593.0 γ to 2 ⁺ , 4182.0 γ to 0 ⁺ .
4318.96 20 4357.4 8	(1,2')	A C	$J^{*}: 4318.9\gamma$ to 0'.
4419.1+ 9	(14^{+})	C	J^{π} : 847.8 γ to (12 ⁺), band structure.
4490.3? 3 4511.8 8 4526.3 9 4689.9 9 4965.0 10 4989.7 10	(1,2,3)	A C C C C C	J^{π} : direct feeding from (2 ⁻) parent in ¹³⁸ I β^{-} decay.
5042.0? 4	(1,2,3)	Α	J^{π} : direct feeding from (2 ⁻) parent in ¹³⁸ I β^{-} decay.
5142.0? 3	(1,2,3)	Α	J^{π} : direct feeding from (2 ⁻) parent in ¹³⁸ I β^{-} decay.
5341.66? 21 5520.0 10 5814.0 11	(1,2 ⁺)	A C C	J^{n} : 4752.7 γ to 2 ⁺ , 5341.6 γ to 0 ⁺ .

[†] From a least-squares fit to γ -ray energies, assuming $\Delta E \gamma = 0.5$ keV if not given. [‡] Band(A): Yrast band.

Adopted Levels, Gammas (continued)											
$\gamma(^{138}\text{Xe})$											
E _i (level)	\mathbf{J}_i^{π}	${\rm E_{\gamma}}^{\ddagger}$	I_{γ} ‡	$E_f = J_j^r$	Mult. [@]	δ	$lpha^{\dagger}$	Comments			
588.826	2+	588.825 18	100	0.0 0+	E2		0.00577	$\alpha(K)=0.00491$ 7; $\alpha(L)=0.000686$ 10; $\alpha(M)=0.0001398$			
								20 α (N)=2.87×10 ⁻⁵ 4; α (O)=3.48×10 ⁻⁶ 5 B(E2)(W.u.)=18 5 Mult.: from Coulomb excitation and γ(θ) in ²⁴⁸ Cm SF decay.			
1072.53	(4+)	483.700 24	100	588.826 2+	(E2)		0.00985	$\alpha(K)=0.00833 \ I2; \ \alpha(L)=0.001218 \ I7; \ \alpha(M)=0.000249 \ 4$ $\alpha(N)=5 \ 10\times10^{-5} \ 8; \ \alpha(Q)=6 \ 10\times10^{-6} \ 9$			
1463.99	(2+)	875.25 13	100.0 24	588.826 2+	(M1+E2)	-5.2 +16-39	0.00221 4	$ α(K)=5.10\times10^{-5} \ (\alpha(G)=0.10\times10^{-5} \ (M)=5.01\times10^{-5} \ 9 \\ α(K)=0.00190 \ 4; \ \alpha(L)=0.000247 \ 5; \ \alpha(M)=5.01\times10^{-5} \ 9 \\ α(N)=1.033\times10^{-5} \ 18; \ \alpha(O)=1.276\times10^{-6} \ 23 \\ Mult., \delta: \ D+Q \ from \ \gamma\gamma(\theta) \ (1992Co26) \ in \ ^{138}I \ \beta^{-} \\ decay; \ positive \ parity \ for \ the \ 1464 \ level \ based \ on \\ systematics \ of \ N=84 \ nuclei; \ mult=E1+M2 \ with \ such \ a \\ large \ \delta \ is \ highly \ unlikely. $			
		1463.98 21	7.5 10	$0.0 0^+$							
1554.6	(6+)	482.1 [#]	100	1072.53 (4-) (E2)		0.00995	$\alpha(K)=0.00841 \ 12; \ \alpha(L)=0.001231 \ 18; \ \alpha(M)=0.000252 \ 4$ $\alpha(N)=5.15\times10^{-5} \ 8; \ \alpha(O)=6.16\times10^{-6} \ 9$			
1866.21	$(1,2^{+})$	1277.45 <i>11</i> 1866 20 <i>17</i>	100 <i>3</i> 15 3 <i>14</i>	$588.826 \ 2^+$							
1903.17	(2+,3,4+)	439.04 23 830.69 8	11.5 <i>18</i> 100 <i>3</i>	1463.99 (2 ⁻ 1072.53 (4 ⁻ 588.826 2 ⁺)						
2015.48	(3 ⁻)	942.89 8	61 <i>3</i>	1072.53 (4 ⁻)						
2114.67	(1,2 ⁺)	650.88 ^{<i>a</i>} 22 1525.83 <i>13</i> 2114.7 <i>3</i>	26 <i>3</i> 100 <i>5</i> 21 <i>3</i>	$\begin{array}{c} 588.826 & 2 \\ 1463.99 & (2^{-}) \\ 588.826 & 2^{+} \\ 0.0 & 0^{+} \end{array}$)						
2115.5 2117.22 2212.54		1043.0 [#] 1528.38 <i>15</i> 1623.69 <i>13</i>	100 100 100	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$)						
2262.14	(1,2 ⁺)	1673.28 9 2262 20 11	31.5 <i>12</i>	$588.826 \ 2^+$							
2284.2	(8+)	729.6	100 5	1554.6 (6) (E2)		0.00335	α (K)=0.00287 4; α (L)=0.000385 6; α (M)=7.82×10 ⁻⁵ 11 α (N)=1.609×10 ⁻⁵ 23; α (O)=1.97×10 ⁻⁶ 3			
2293.2	(4+,5,6+)	738.6 [#]		1554.6 (6 ⁻)						
2331.92	(2+,3,4+)	1220.7 1259.1 3 1743 1 3	100 18	1072.53 (4) 1072.53 (4) $588.826 2^+$)						
2334.07	(1 ⁻ ,2,3)	318.6 4	3.3 12	2015.48 (3)						

¹³⁸₅₄Xe₈₄-3

L

 $^{138}_{54}\mathrm{Xe}_{84}$ -3

From ENSDF

$\gamma(^{138}$ Xe) (continued)

E_i (level)	\mathbf{J}_i^{π}	E_{γ}^{\ddagger}	I_{γ}^{\ddagger}	\mathbf{E}_{f}	\mathbf{J}_f^{π}
2334.07	(1-,2,3)	430.83 21	18.2 21	1903.17	$(2^+, 3, 4^+)$
		467.8 <i>3</i>	3.7 9	1866.21	$(1,2^{+})$
		870.05 20	100 5	1463.99	(2^{+})
		1745.0 4	37 7	588.826	2+
2391.0		836.4 [#]	100	1554.6	(6 ⁺)
2398.15	$(1,2^+)$	1809.28 14	100 <i>3</i>	588.826	2+
		2398.16 15	38 4	0.0	0^{+}
2543.71	$(1,2^{+})$	212.4 4	76 42	2331.92	$(2^+, 3, 4^+)$
		640.0 <i>3</i>	9 <i>3</i>	1903.17	$(2^+, 3, 4^+)$
		1079.8 <i>3</i>	17 4	1463.99	(2^{+})
		1954.8 <i>3</i>	100 8	588.826	2+
		2543.73 14	98 <i>3</i>	0.0	0^{+}
2572.42	$(1,2^{+})$	1108.29 18	33.5 23	1463.99	(2^{+})
	(1.0.1)	2572.38 14	100 3	0.0	0+
2644.8	$(1,2^{+})$	310.6 3	61 19	2334.07	$(1^-, 2, 3)$
		2644.9 4	100 13	0.0	01
2655.1	$(6^+, 7, 8^+)$	370.9#		2284.2	(8 ⁺)
		1100.5 [#]		1554.6	(6+)
2674.26	$(1,2^{+})$	771.0 4	10 3	1903.17	$(2^+, 3, 4^+)$
		1210.2 3	22 4	1463.99	(2^{+})
		2085.43 12	100 4	588.826	2+
		2674.0 <i>3</i>	15.3 22	0.0	0^{+}
2710.1		1155.5 [#]	100	1554.6	(6 ⁺)
2794.37	$(1,2^{+})$	460.0 <i>3</i>	30 10	2334.07	$(1^{-},2,3)$
		778.90 22	100 10	2015.48	(3 ⁻)
		1331.2 5	28 10	1463.99	(2^{+})
		2794.3 4	62 8	0.0	0^{+}
2835.63	(1,2)	1371.57 23	25.9 23	1463.99	(2^{+})
	(1 at)	2835.64 19	100 4	0.0	0^{+}
2890.61	$(1,2^+)$	678.0 3	56 16	2212.54	(2+ 2 (+)
		987.4 3	100 20	1903.17	$(2^+,3,4^+)$
2052 (2		2890.7 0	48 12	0.0	$(2^+, 2, 4^+)$
2952.63		621.14	218	2551.92	$(2^+, 3, 4^+)$
		837.80 23	20 ð	2114.07	$(1,2^{+})$
2064 20	$(1, 2^+)$	2005.74 10	100 0	2572 42	$(1, 2^+)$
2904.39	(1,2)	840 70 ^a 34	153	2312.42	$(1,2^+)$
		049.79 24 1061 2 A	12.3	2114.07 1003 17	(1,2) $(2^+ 3 4^+)$
		15001.2 4	12 5	1/63 00	$(2^+, 3, 4^+)$
		$2376 \cap^{a} 2$	18 3 25	588 876	2+
		2964 4 3	17 1 18	0.0	$\tilde{0}^{+}$
		2707.7 J	17.1 10	0.0	0

4

Adopted Levels, Gammas (continued)											
	$\gamma(^{138}$ Xe) (continued)										
E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\ddagger}	I_{γ}^{\ddagger}	E_{f}	J_f^π	Mult. [@]	α^{\dagger}	Comments			
2972.2	(10 ⁺)	687.9 [#]	100	2284.2	(8 ⁺)	(E2)	0.00387	α (K)=0.00331 5; α (L)=0.000449 7; α (M)=9.13×10 ⁻⁵ 13 α (N)=1.88×10 ⁻⁵ 3; α (O)=2.29×10 ⁻⁶ 4			
3224.7		940.5 [#]	100	2284.2	(8 ⁺)						
3276.5		992.3 [#]	100	2284.2	(8 ⁺)						
3354.7		382.6 ^{#a}		2972.2	(10^{+})						
		699.5 [#]		2655.1	$(6^+, 7, 8^+)$						
		1070.5 [#]		2284.2	(8 ⁺)						
3412.7		1128.5#	100	2284.2	(8^+)						
3474.79	(2^{+})	2402.24 22	100 5	1072.53	(4^+)						
		3474.3 7	26 5	0.0	0+						
3496.59	$(1,2^+)$	1379.3 5	11 4	2117.22							
		2032.79 ^{&} 15	≤117 ^{&}	1463.99	(2^{+})						
2516 512	(1.0+)	3496.3 2	100 6	0.0	0^+						
3516.51?	$(1,2^{+})$	2927.82 20	75 4	588.826	2+ 0+						
2571.2	(12+)	500 0 [#]	100 11	0.0	(10^{\pm})	(E2)	0.00551	$\alpha(\mathbf{K}) = 0.00460.7$, $\alpha(\mathbf{I}) = 0.000652.10$, $\alpha(\mathbf{M}) = 0.0001222.10$			
55/1.5	(12^{+})	399.0	100	2912.2	(10^{10})	(E2)	0.00551	$\alpha(\mathbf{N}) = 0.00409 \ 7, \ \alpha(\mathbf{L}) = 0.000055 \ 10; \ \alpha(\mathbf{N}) = 0.0001552 \ 19$ $\alpha(\mathbf{N}) = 2.73 \times 10^{-5} \ 4; \ \alpha(\mathbf{O}) = 3.23 \times 10^{-6} \ 5$			
2820 7		615 0 [#]		2004 7				$u(N) = 2.75 \times 10^{-4}, u(O) = 5.52 \times 10^{-5}$			
3039.1		015.0 867.5#		3224.7 2072 2	(10^{+})						
20767		807.5 [#]	100	2972.2	(10^{+})						
38/0.7		904.5" 227.4#	100	2972.2	(10^{+})						
3898.7		527.4"		35/1.5	(12^{+})						
		544.0"		3354.7	(10+)						
2800.05	$(1, 2^{+})$	926.5"	10.2	2972.2	(10^{+}) (1.2^{+})						
3699.03	(1,2)	$1320.5 \ 5$ $1355 \ 80^{a} \ 11$	10 <i>3</i> 33 <i>4</i>	2543 71	(1,2) $(1,2^+)$						
		1567.20^a 25	27 4	2331.92	$(1,2^+)$ $(2^+,3,4^+)$						
		2032.79 ^{&} 15	<79&	1866.21	(1.2^+)						
		2826.1 6	6.7 16	1072.53	(4^+)						
		3310.28 15	100 4	588.826	2+						
	(1	3898.4 6	4.1 10	0.0	0^+						
3961.86	$(1^{-},2,3)$	1629.7 3	22 4	2331.92	$(2^+,3,4^+)$						
		1940.20 <i>15</i> 2058 84 <i>14</i>	100 12	2013.48	(3) $(2^+ 3 4^+)$						
4084 6		$11125^{\#}$	100 12	2972.2	$(2^{-}, 3, 7^{-})$ (10^{+})						
4167.56	(1.2.3)	1594.7 5	83	2572.42	(1.2^+)						
	(-,-,-)	1835.44 17	22 4	2331.92	$(2^+, 3, 4^+)$						
		2301.57 16	100 5	1866.21	$(1,2^{+})$						
4182.01	$(1,2^+)$	1609.3 5	13 5	2572.42	$(1,2^+)$						
		1919.94 18	22.3 18	2262.14	$(1,2^{+})$						

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From ENSDF

 $^{138}_{54} \mathrm{Xe}_{84}$ -5

L

	4182.0 2	100 6	0.0	0^{+}	4989.7		570.6 [#]	100	4419.1	(14^{+})
$(1,2^+)$	2452.5 9	11 6	1866.21	$(1,2^+)$	5042.0?	(1,2,3)	1545.6 5	100 27	3496.59	$(1,2^{+})$
	4318.9 2	100 7	0.0	0^{+}			2151.3 4	95 <i>21</i>	2890.61	$(1,2^+)$
	272.9 [#]		4084.6				3026.1 ^{&a} 5	≤143 ^{&}	2015.48	(3 ⁻)
	458.9 [#]		3898.7		5142.0?	(1,2,3)	974.5 <i>3</i>	100 25	4167.56	(1,2,3)
	786 [#]		3571.3	(12^{+})			1666.7 7	69 <i>32</i>	3474.79	(2 ⁺)
(14^{+})	847.8	100	3571.3	(12^{+})			3026.1 ^{&a} 5	≤162 ^{&}	2114.67	$(1,2^+)$
(1,2,3)	994.0 <i>3</i>	100 17	3496.59	$(1,2^+)$	5341.66?	$(1,2^+)$	1845.0 <i>3</i>	100 14	3496.59	$(1,2^+)$
	1815.6 4	97 21	2674.26	$(1,2^+)$			2389.2 5	74 <i>14</i>	2952.63	
	3026.1 ^{&a} 6	≤90 ^{&}	1463.99	(2 ⁺)			4752.7 4	43 <i>3</i>	588.826	2^{+}
	613.1 [#]		3898.7				5341.6 5	63 9	0.0	0^{+}
	940.6 [#]		3571.3	(12^{+})	5520.0		530.3 [#]		4989.7	
	955.0 [#]	100	3571.3	(12^{+})			555.0 [#]		4965.0	
	1118.6 [#]	100	3571.3	(12^{+})	5814.0		824.3 [#]	100	4989.7	

E_i(level)

4965.0

Adopted Levels, Gammas (continued)

 $\gamma(^{138}$ Xe) (continued)

 J_i^{π}

 E_{γ}^{\ddagger}

545.9[#]

 I_{γ}^{\ddagger}

100

 J_f^{π}

 (14^{+})

 \mathbf{E}_{f}

4419.1

6

[†] Additional information 2. [‡] From ¹³⁸I β^- decay, unless otherwise noted.

E_γ‡

3593.0 2

 J_i^{π}

 $(1,2^+)$

 E_i (level)

4182.01

4318.96

4357.4

4419.1

4511.8

4526.3 4689.9

4490.3?

 I_{γ}^{\ddagger}

39.3 18

 \mathbf{E}_{f}

588.826 2+

 J_f^{π}

[#] From ²⁴⁸Cm SF decay. [@] From $\gamma(\theta)$ in ²⁴⁸Cm SF decay, unless otherwise noted. Brackets are added if no strong experimental evidence is available.

[&] Multiply placed with undivided intensity.

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





¹³⁸₅₄Xe₈₄

Level Scheme (continued)

Legend

Intensities: Relative photon branching from each level & Multiply placed: undivided intensity given

 $--- \rightarrow \gamma$ Decay (Uncertain)



¹³⁸₅₄Xe₈₄

Legend

Level Scheme (continued) Intensities: Relative photon branching from each level & Multiply placed: undivided intensity given

 γ Decay (Uncertain)



¹³⁸₅₄Xe₈₄

Level Scheme (continued)

Intensities: Relative photon branching from each level & Multiply placed: undivided intensity given



¹³⁸₅₄Xe₈₄



¹³⁸₅₄Xe₈₄