			Type	Author	History	Literature Cutoff Date					
]	Full Evaluatio	n Jun Chen	NDS 146, 1 (2017)	30-Sep-2017					
$Q(\beta^{-})=5375 \ 9; \ S(n)=4413 \ 9; \ S(p)=7793 \ 9; \ Q(\alpha)=-1268 \ 10 \qquad 2017Wa10$ S(2n)=12691 9, S(2p)=17920 17, Q(2 β^{+})=3632 10 (2017Wa10). Additional information 1. First identification of ¹³⁸ Xe nuclide by 1943Se02 (see 2012Ma48). Other reactions: ¹³⁷ Cs(n, γ): 2000NaZY, 2000Wa38, 1998Ma97, 1993Se11, 1990Ha24. ¹³⁸ Ba(n,p): 2012La07, 2000ZhZV, 1997FiZZ, 1989Fa13.											
¹³⁸ Cs Levels											
Cross Reference (XREF) Flags											
			A B C	¹³⁸ Xe β^- deca ¹³⁸ Cs IT decay ²⁴⁸ Cm SF deca	y (14.14 min) D y (2.91 min) E ay	252 Cf SF decay 138 Ba (μ^-, γ)					
E(level) [†]	J^{π}	T _{1/2}	XREF			Comments					
0.0	3-	32.5 min 2	ABCDE	 μ=+0.700 4 (1981Th06,2014StZZ) Q=+0.112 17 (1981Th06,2016St14) J^π: spin from atomic beam (1967St22, 1978Sc27,1979Bo01); parity from no-allowed β feedings to 0⁺, 2⁺ and 4⁺ levels in ¹³⁸Ba, no γ transitions from 1⁺ levels above 2 MeV and also shell-model prediction. T_{1/2}: unweighted average of 33.1 min 6 (1990Ha24), 33.41 min 18 (1972Eh02), 32.2 min 1 (1956Ba66), 32.1 min 2 (1956Bu01), 32.33 min 12 (1966Ar08), 32.2 min 2 (1969Ca03), 32.1 min 25 (1971Be35). μ: from 1981Th06 using atomic beam laser spectroscopy. Others: +0.701 7 (1979Ek02, atomic-beam magnetic resonance), +0.701 14 (1979Bo01, Collinear Fast Beam Laser Spectroscopy), +0.705 15 (1978Sc27, atomic beam laser spectroscopy), 0.48 10 (1967St22, atomic-beam magnetic resonance). Q: re-evaluated value in 2013StZZ based on +0.12 2 measured in 1981Th06 using atomic beam laser spectroscopy), +0.12 2 (1978Sc27, atomic beam laser spectroscopy). Evaluated nuclear charge radius <r<sup>2</r<sup> 							
10.86 <i>3</i> 15.749 <i>21</i>	2^{-} (1) ⁻		A A	J^{π} : 10.85 γ M1 to 3 ⁻ , strong 2015.82 γ , 2252.26 γ , 2326.9 γ from 1 ⁺ . J^{π} : 4.85 γ M1 to 2 ⁻ , strong 2321.90 γ , 2475.26 γ from 1 ⁺ ; spin=1 is expected from							
79.9 3	6-	2.91 min <i>1</i> 0	0 BCD	 shell-model predictions and systematics of neighboring nuclei. %β⁻=19 3; %IT=81 3 µ=+1.713 9 (1981Th06,2014StZZ) Q=-0.37 5 (1981Th06,2016St14) J^π: spin from atomic beam (1981Th06), 79.9γ to 3⁻ requires Mult=M3. T_{1/2}: weighted average of 2.92 min <i>11</i> (1978Au08) and 2.90 min <i>10</i> (1971Ca21). µ: from 1981Th06 using atomic beam laser spectroscopy. Q: re-evaluated value in 2013StZZ based on -0.40 3 measured in 1981Th06 using atomic beam laser spectroscopy. %IT is the weighted average of 81.5 +25-30 (at 68.3% confidence level) from 1978Au08 and 75 8 from 1971Ca21, deduced from growth curves of 463γ, 1436γ, and 1010γ. Other: %IT=81.5 +50-140 from 1978Au08 at 99.7% confidence level. The 1010γ is not fed in β⁻ decay of 2.9-min ¹³⁸Cs, but follows the β⁻ decay of the ¹³⁸Cs ground state (1978Au08,1971Ca21). 							

Continued on next page (footnotes at end of table)

¹³⁸Cs Levels (continued)

E(level) [†]	\mathbf{J}^{π}	XREF	Comments
			Configuration= $\pi g_{7/2}^5 \otimes v f_{7/2}$ predicted in 2007Li21, but $\pi g_{7/2}^4 \otimes \pi d_{5/2} \otimes v f_{7/2}$ in 2007Rz03.
254.4 [‡] 5	(7 ⁻)	CD	J^{π} : 174.5 γ (M1) to 6 ⁻ .
258.405 19	1-,2-	A E	J^{π} : 258.411 γ E2 to 3 ⁻ , 242.56 γ M1,E2 to (1) ⁻ , strong 1768.26 γ , 2004.75 γ , 2079,17 γ from 1 ⁺ .
335.38 8		Α	
403.68 15	1-	A	T (01.26) M1 (2- (12.0) (2- 1 (6.60) (0+ (138)) (2- 1)
412.262 19	l 0= 1=	A	J [*] : 401.367 M1 to 2, 412.87 to 3; log $ft=6.9$ from 0 ⁺ in ¹⁵⁰ Xe β decay.
450.52 5	0,1	A A	J^{*} log $J^{*}=0.7$ from 0° parent in J^{**} Ae β decay, 434.507 M1,E2 to (1).
555.98? 9	12-	A	I^{π} : log $ft=9.2$ from 0 ⁺ parent in ¹³⁸ Xe β^- decay. 555.95 γ to 3 ⁻ .
691.16 11	$1^{-},2^{-}$	A	J^{π} : log ft=9.0 from 0 ⁺ parent, 691.5 γ to 3 ⁻ .
912.48 4	(1-,2)	Α	J^{π} : 912.51 γ to 3 ⁻ , 500.22 γ to 1 ⁻ , 1114.29 γ from 1 ⁺ .
952.09 6	$(0^{-},1)$	Α	J^{π} : log <i>ft</i> =8.1 from 0 ⁺ parent, 941.25 γ to 2 ⁻ .
1109.59 5	$(0^{-},1)$	Α	J^{π} : log ft=8.6 from 0 ⁺ parent, 1098.77 γ to 2 ⁻ , 1153.6 γ from 1 ⁺ .
1121.8 5	(8 ⁻)	C	J^{n} : proposed in ²⁴⁸ Cm SF decay.
1157.390	(1-2)	A	I^{π} , 1160.06a, to 2^{-} , 1145.44a, to $(1)^{-}$, 1102.24a, from 1 ⁺
1205.23 10	$(1^{-},2)$ $(1^{-},2^{-})$	A	J^{π} : log $ft=8.0$ from 0 ⁺ parent. 1204.5v to 3 ⁻ .
1206.2 5	(8 ⁻)	с	J^{π} : proposed in ²⁴⁸ Cm SF decay.
1312.4 5	(8-)	С	J^{π} : proposed in ²⁴⁸ Cm SF decay.
1372.14? 18	. ,	Α	
1411.3 [‡] 6	(9-)	CD	J^{π} : 1156.9 γ (E2) to (7 ⁻).
1488.88 11		Α	
1537.92 21		A	
1559.57 13	(10-)	A	
1596.8# 5	(10)		J^{*} : 185.6 γ M1+E2 to (9).
$1/94.05 I_2$	(0,1)	A CD	J : $\log f = 7.5$ from 0 parent, 1785.47 to 2 :
1832.8* 0	(11)	CD CD	J^{**} 421.57 to (9), 250.07 to (10).
1917.57 /	(12) (0=1)		J [*] : 84. $/\gamma$ MI to (11). I^{π} : log $t=6.8$ from 0 ⁺ parent
2022.22 10	(0,1) 1 ⁺	A A	J log $f_{t}=0.8$ from 0 ⁺ parent
2263.12 7	1+	A	J^{π} : log ft =4.8 from 0 ⁺ parent.
2337.65 7	1^{+}	Α	J^{π} : log $ft=5.1$ from 0 ⁺ parent.
2491.01 14	1+	Α	J^{π} : log ft=5.5 from 0 ⁺ parent.
2508.43? 14	1+	Α	J^{π} : log ft=5.7 from 0 ⁺ parent.
2731.9 8		CD	J^{π} : proposed in ²⁴⁸ Cm SF decay.
2813.0# 8	(11^{+})	CD	J^{π} : proposed in ²⁵² Cm SF decay. (14 ⁻) from ²⁴⁸ Cm SF decay.
3158.3 10		С	
3260.5" 10	(12 ⁺)	CD	J^{n} : proposed in ²³² Cm SF decay. (15 ⁻) from ²⁴⁰ Cm SF decay.
3348.8" 10	(13 ⁺)	C	252
4164.5 [#] 11	(14^{+})	CD	J^{π} : proposed in ²⁵² Cm SF decay. (16 ⁻) from ²⁴⁸ Cm SF decay.
4258.6 11	14.01	C	
4626.1 # 12	(16^{+})	C	

[†] From a least-squares fit to γ-ray energies, assuming ΔEγ=0.5 keV if not given.
[‡] Seq.(A): γ sequence based on 6⁻.
[#] Seq.(B): γ sequence based on (11⁺).

				Ado	pted Lev	v <mark>els, Gam</mark> n	nas (continued)	
						$\gamma(^{138}Cs)$		
E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\ddagger}	I_{γ}^{\ddagger}	E_f	\mathbf{J}_f^{π}	Mult. [#]	α^{\dagger}	Comments
10.86	2-	10.85 5	100	0.0	3-	M1	89.7 18	α (L)=71.5 14; α (M)=14.7 3 α (N)=2.10 7; α (O)=0.428 0; α (D)=0.0207 4
15.749	(1)-	4.85 5	100	10.86	2^{-}	M1	202 7	$\alpha(N)=3.10^{-7}; \alpha(O)=0.428^{-9}; \alpha(P)=0.020^{-7}4^{-7}$ $\alpha(M)=163^{-6}6^{-7}; \alpha(Q)=4^{-7}4^{-1}7; \alpha(P)=0.229^{-8}8^{-7}$
79.9	6-	79.9 3	100	0.0	3-	M3	213 5	$\alpha(K)=119.4\ 25;\ \alpha(L)=72.7\ 18;\ \alpha(M)=16.9$
254.4	(7 ⁻)	174.5	100	79.9	6-	(M1) [@]	0.190	$\alpha(K)=0.1628\ 23;\ \alpha(L)=0.0214\ 3;\ \alpha(M)=0.00439\ 7$ $\alpha(N)=0.000928\ 13;\ \alpha(O)=0.0001292\ 18;\ \alpha(P)=6.38\times10^{-6}\ 9$ $E_{\gamma}:\ from\ ^{252}Cf\ SF\ decay.\ Other:\ 175.5\ from\ ^{242}Cm\ SF\ decay.$
258.405	1-,2-	242.56 5	11.1 2	15.749	(1)-	M1,E2	0.082 5	$\alpha(\mathbf{K})=0.0684 \ I8; \ \alpha(\mathbf{L})=0.0112 \ 25; \ \alpha(\mathbf{M})=0.0023 \ 6 \ \alpha(\mathbf{N})=0.00048 \ I1; \ \alpha(\mathbf{O})=6.4\times10^{-5} \ I2; \ \alpha(\mathbf{D})=2.46\times10^{-6} \ I7$
		258.411 20	100 2	0.0	3-	E2	0.0706	$\alpha(K) = 0.0570 \ 8; \ \alpha(L) = 0.01077 \ 15; \alpha(M) = 0.00226 \ 4 \alpha(N) = 0.000467 \ 7; \ \alpha(O) = 5.99 \times 10^{-5} \ 9; \alpha(P) = 1.89 \times 10^{-6} \ 3 Additional information 2.$
335.38 403.68		325.3 <i>3</i> 335.28 <i>9</i> 68.3 <i>2</i>	22 8 100 9	10.86 0.0 335.38	2 ⁻ 3 ⁻			
412.262	1-	403 153.858 <i>3</i>	94.5 20	0.0 258.405	3- 1-,2-	M1,E2	0.34 8	α (K)=0.27 4; α (L)=0.06 3; α (M)=0.012 6 α (N)=0.0025 12; α (O)=0.00031 13;
		396.513 <i>10</i>	100.0 20	15.749	(1)-	M1,E2	0.0200 17	$\alpha(P)=9.16\times10^{-6} 18$ $\alpha(K)=0.0170 17; \ \alpha(L)=0.00241 4;$ $\alpha(M)=0.000496 10$ $\alpha(N)=0.0001042 16; \ \alpha(O)=1.42\times10^{-5} 4;$ $\alpha(P)=6.3\times10^{-7} 10$
		401.36 5	34.5 15	10.86	2-	M1	0.0210	$\alpha(\mathbf{F}) = 0.3 \times 10^{-10}$ $\alpha(\mathbf{K}) = 0.0181 \ 3; \ \alpha(\mathbf{L}) = 0.00232 \ 4;$ $\alpha(\mathbf{M}) = 0.000474 \ 7$ $\alpha(\mathbf{N}) = 0.0001004 \ 14; \ \alpha(\mathbf{O}) = 1.403 \times 10^{-5} \ 20;$ $\alpha(\mathbf{P}) = 7.02 \times 10^{-7} \ 10$
450.32	0-,1-	412.8 7 434.56 <i>4</i>	1.0 5 100	0.0 15.749	3 ⁻ (1) ⁻	M1,E2	0.0156 <i>16</i>	$\alpha(K)=0.0133 \ 16; \ \alpha(L)=0.00185 \ 6;$ $\alpha(M)=0.000381 \ 9$ $\alpha(N)=8.00\times10^{-5} \ 23; \ \alpha(O)=1.09\times10^{-5} \ 6;$ $\alpha(P)=5 \ 0\times10^{-7} \ 8$
540.99		137.20 20 282.51 6 530.07 7	16 8 100 <i>3</i> 59 <i>3</i>	403.68 258.405 10.86	1 ⁻ ,2 ⁻ 2 ⁻			

Continued on next page (footnotes at end of table)

γ ⁽¹³⁸Cs) (continued)</sup>

E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\ddagger}	I_{γ}^{\ddagger}	\mathbf{E}_{f}	\mathbf{J}_f^{π}	Mult. [#]	α^{\dagger}	Comments
540.99		540.8 6	53	0.0	3-			
555.98?	$1^{-}.2^{-}$	555.95 9	100	0.0	3-			
691.16	$1^{-}, 2^{-}$	675.37 15	100 18	15.749	$(1)^{-}$			
		680.24 19	74 18	10.86	2-			
		691.5 <i>4</i>	43 18	0.0	3-			
912.48	$(1^{-},2)$	371.44 5	100 5	540.99				
		500.22 6	72.3 25	412.262	1-			
		654.08 8	28.9 25	258.405	1-,2-			
		896.87 12	26.4 25	15.749	$(1)^{-}$			
	(0-1)	912.51 7	65 4	0.0	3-			
952.09	$(0^{-},1)$	693.53 16	38.6	258.405	1-,2-			
		936.36 11	59.6	15.749	(1)			
1100 50	(0 - 1)	941.25 8	100 /	10.86	$\frac{2}{1-2}$			
1109.59	(0, 1)	197	75 4	912.48	(1,2)			
		508.55 0 607.6 <i>1</i>	134 5423	340.99 412 262	1-			
		774 21 15	16 2 23	335 38	1			
		851 30 17	10.2 23	258 405	1-2-			
		1093 87 9	100 6	15 749	$(1)^{-}$			
		1098.77 11	52.4	10.86	2^{-}			
1121.8	(8^{-})	1041.9	100	79.9	- 6-			E.: from ²⁴⁸ Cm SE decay
1157.39	(0)	746	100	412.262	1-			Σ_{γ} . from C of
110/10/		1141.64 9	100	15.749	$(1)^{-}$			
1160.93	$(1^{-},2)$	619.7 5	17 10	540.99	(-)			
		902.3 <i>3</i>	33 10	258.405	$1^{-}, 2^{-}$			
		1145.44 18	100 14	15.749	$(1)^{-}$			
		1160.96 18	74 10	0.0	3-			
1205.23	$(1^-, 2^-)$	755.0 6	29 14	450.32	$0^{-}, 1^{-}$			
		792.9 5	25 11	412.262	1-			
		869		335.38				
		946.63 20	71 4	258.405	$1^{-}, 2^{-}$			
		1189.54 21	93 14	15.749	$(1)^{-}$			
		1194.94 20	100 14	10.86	2-			
1006.0	(0-)	1204.5 4	39 14	0.0	3			P (²⁴⁸ C C L
1206.2	(8)	1126.3	100	79.9	(0-)			E_{γ} : from ²⁴⁰ Cm SF decay.
1312.4	(8)	190.5	100 20	1121.8	(8)			
		1058.1	21 7	254.4	(/)			
1372 149		816.06.18	55 / 100 18	79.9	$1^{-}2^{-}$			
1372.14:		1356.6.4	70 22	15 749	$(1)^{-}$			
		1361.9.6	48 22	10.86	2^{-1}			
1411.2	(0^{-})	1156.0	100 22	254.4	(7-)	(E2) [@]	1.26×10^{-3}	$\alpha(K) = 0.001084$ 16. $\alpha(L) = 0.0001282$ 20.
1411.5	(9)	1150.9	100	234.4	(7)	(E2)	1.20×10	$u(\mathbf{K})=0.001084 \ 10; \ u(\mathbf{L})=0.0001382 \ 20;$
								$u(M) = 2.82 \times 10^{-6} 4$
								$u(\mathbf{N})=3.94\times10^{-8}$ 9; $u(\mathbf{O})=8.23\times10^{-1}$ 12;
								$\alpha(P)=4.02\times10^{\circ}$ 6; $\alpha(IPF)=2.48\times10^{\circ}$ 4
								E_{γ} : from ²³² Cf SF decay. Other: 1157.0
1400.00		1076 29 22	100 70	412.262	1-			from ² ¹⁰ Cm SF decay.
1488.88		10/0.38 22	100 18	412.262	$(1)^{-}$			
1537.02		14/3.2 3	19 14 20 11	15./49	(1) $(0^{-} 1)$			
1331.92		JOU.U 4 006 8 3	100 25	540.00	(0,1)			
1559 57		647 2 5	21 13	912 48	(1-2)			
1007.01		1548 9 4	100 25	10.86	2- ,2)			

					$\gamma(^{138}Cs)$) (continued)		
E _i (level)	\mathbf{J}_i^{π}	${\rm E}_{\gamma}^{\ddagger}$	I_{γ}^{\ddagger}	E_f	J_f^π	Mult. [#]	α^{\dagger}	Comments
1596.8	(10 ⁻)	185.6	100 10	1411.3	(9 ⁻)	M1+E2 [@]	0.19 3	$\alpha(K)=0.152 \ 15; \ \alpha(L)=0.028 \ 11; \ \alpha(M)=0.0059 \ 23 \ \alpha(N)=0.0012 \ 5; \ \alpha(O)=0.00016 \ 5; \ \alpha(P)=5.30\times10^{-6} \ 12 \ E_{\gamma}, I_{\gamma}: \ from \ ^{248}Cm \ SF \ decay. \ Other: \ E_{\gamma}=185.5 \ from \ ^{252}Cf \ SF \ decay.$
1794.05	(0 ⁻ ,1)	284.5 390.6 588.84 8 1381.4 3 1783.4 6	19 4 21 4 100 8 56 13 31 13	1312.4 1206.2 1205.23 412.262 10.86	(8 ⁻) (8 ⁻) (1 ⁻ ,2 ⁻) 1 ⁻ 2 ⁻			E_{γ},I_{γ} : from ²⁴⁸ Cm SF decay. E_{γ},I_{γ} : from ²⁴⁸ Cm SF decay.
1832.8	(11 ⁻)	236.0 421.5	100 <i>11</i> 13 <i>4</i>	1596.8 1411.3	(10 ⁻) (9 ⁻)			E_{γ} , I_{γ} : from ²⁴⁸ Cm SF decay. E_{γ} , I_{γ} : from ²⁴⁸ Cm SF decay.
1917.5	(12 ⁻)	84.7	100 12	1832.8	(11 ⁻)	M1 [@]	1.448	$\alpha(K) = 1.240 \ 18; \ \alpha(L) = 0.1656 \ 24;$ $\alpha(M) = 0.0339 \ 5$ $\alpha(N) = 0.00717 \ 10; \ \alpha(O) = 0.000996 \ 14;$ $\alpha(P) = 4.88 \times 10^{-5} \ 7$ $E_{\gamma}, I_{\gamma}: \text{ from } {}^{248} \text{ Cm SF decay. Other:}$
		320.7	4.8 24	1596.8	(10 ⁻)			$E\gamma$ =84.5 from ²⁵² Cf SF decay. E_{γ} : from ²⁵² Cf SF decay. Other: 321 from ²⁴⁸ Cm SF decay. Let from ²⁴⁸ Cm SF decay.
2022.22	$(0^{-},1)$	534.0 6 1571.84 <i>16</i>	5.6 <i>23</i> 100 <i>10</i>	1488.88 450.32	$0^{-}.1^{-}$			ly. nom on or decay.
2026.73	1+	537.76 <i>13</i> 865.82 7 869.35 6 917.13 6 1114.29 <i>10</i> 1614.57 <i>18</i> 1768.26 <i>13</i> 2015 82 <i>14</i>	0.70 <i>10</i> 1.77 <i>11</i> 3.71 <i>21</i> 5.50 <i>23</i> 8.8 <i>4</i> 1.41 <i>15</i> 100.0 <i>21</i> 73 3 <i>15</i>	1488.88 1160.93 1157.39 1109.59 912.48 412.262 258.405 10.86	$(1^{-},2)$ $(0^{-},1)$ $(1^{-},2)$ 1^{-} $1^{-},2^{-}$ 2^{-}			
2263.12	1+	703.58 17 1102.24 17 1153.6 5 1311.07 24 1812.54 18 1850.86 13 2004.75 14 2252 26 14	1.06 <i>18</i> 2.00 <i>24</i> 0.6 <i>3</i> 1.6 <i>3</i> 3.4 <i>4</i> 26.6 <i>9</i> 100.0 <i>24</i> <i>4</i> 2 7 <i>13</i>	$\begin{array}{c} 1535\\ 1559.57\\ 1160.93\\ 1109.59\\ 952.09\\ 450.32\\ 412.262\\ 258.405\\ 10.86\end{array}$	$(1^{-},2)$ $(0^{-},1)$ $(0^{-},1)$ $0^{-},1^{-}$ 1^{-} $1^{-},2^{-}$ 2^{-}			
2337.65	1+	778.10 <i>19</i> 799.6 6 848.7 <i>3</i> 1228.3 <i>4</i> 1385.5 <i>3</i> 1646.5 <i>3</i> 1887.3 <i>3</i> 1925.36 <i>14</i> 2079.17 <i>14</i> 2321.90 <i>16</i> 2326 9 <i>3</i>	3.1 7 1.1 7 3.1 9 4.4 15 5.2 11 4.6 9 4.8 9 39 2 100 3 43 2 39 7	1559.57 1537.92 1488.88 1109.59 952.09 691.16 450.32 412.262 258.405 15.749 10.86	$\begin{array}{c} (0^{-},1) \\ (0^{-},1) \\ 1^{-},2^{-} \\ 0^{-},1^{-} \\ 1^{-} \\ 1^{-},2^{-} \\ (1)^{-} \\ 2^{-} \end{array}$			
2491.01	1+	953.1 5 1578.1 5 1799.4 6 2041.2 5	9 4 16 6 11 4 10 3	1537.92 912.48 691.16 450.32	2 (1 ⁻ ,2) 1 ⁻ ,2 ⁻ 0 ⁻ ,1 ⁻			

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

E _i (level)	\mathbf{J}_i^{π}	E _γ ‡	Ι _γ ‡	E_f	\mathbf{J}_{f}^{π}	Comments
2491.01	1+	2475.26 16	100 5	15.749	$(1)^{-}$	
2508.43?	1^{+}	2492.61 24	31 4	15.749	$(1)^{-}$	
		2497.56 17	100 7	10.86	2-	
2731.9		814.4	100	1917.5	(12 ⁻)	E_{γ} : from ²⁴⁸ Cm SF decay and ²⁵² Cf SF decay.
2813.0	(11^{+})	895.5	100	1917.5	(12 ⁻)	E_{γ} : from ²⁵² Cf SF decay. Other: 895.4 from ²⁴⁸ Cm SF decay.
3158.3		426.4	100	2731.9		E_{γ} : from ²⁵² Cf SF decay.
3260.5	(12^{+})	447.5	100	2813.0	(11^{+})	E_{γ} : from ²⁵² Cf SF decay. Other: 447.2 from ²⁴⁸ Cm SF decay.
3348.8	(13^{+})	535.8	100	2813.0	(11^{+})	E_{γ} : from ²⁵² Cf SF decay.
4164.5	(14^{+})	904.0	100	3260.5	(12^{+})	E_{γ} : from ²⁵² Cf SF decay. Other: 903.8 from ²⁴⁸ Cm SF decay.
4258.6		909.8	100	3348.8	(13^{+})	E_{γ} : from ²⁵² Cf SF decay.
4626.1	(16 ⁺)	461.6	100	4164.5	(14^{+})	E_{γ} : from ²⁵² Cf SF decay.

[†] Additional information 3. [‡] From ¹³⁸Xe β^- decay, unless otherwise noted. [#] From ce data in ¹³⁸Xe β^- decay, unless otherwise noted. [@] From $\gamma\gamma(\theta)$ and ce data in ²⁵²Cf SF decay.

Level Scheme

Intensities: Relative photon branching from each level



¹³⁸₅₅Cs₈₃

7

Level Scheme (continued)

Intensities: Relative photon branching from each level



¹³⁸₅₅Cs₈₃

8



9

 $^{138}_{55}\mathrm{Cs}_{83}\text{-}9$

From ENSDF



