		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 187,1 (2023)	12-Oct-2022

Parent: ¹⁴¹Xe: E=0.0; $J^{\pi}=5/2^{(-)}$; $T_{1/2}=1.73$ s *I*; $Q(\beta^{-})=6280 \ 10$; $\%\beta^{-}$ decay=100 ¹⁴¹Xe- $Q(\beta^{-})$: From 2021Wa16.

Measured: γ, γγ (1988Fa06,1979Bo26,1977TaZZ,1976Ot03,1975Mo03), ce (1976Ot03), γ(t) (1975Mo03), β⁻, βγ (1973Ad04,1978Wo15).

Level schemes of 1976Ot03 and 1977TaZZ were re-examined and drastically amended by 1988Fa06 (levels above 1560 from 1976Ot03 were not confirmed and β feeding ¹⁴¹Xe(g.s.) to ¹⁴¹Cs(g.s.) reduced). Level scheme is that of 1988Fa06 and is still incomplete. The evaluator recommends remeasuring ¹⁴¹Xe and ¹⁴¹Cs β^- decay schemes.

¹⁴¹ Cs 2	Levels
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E(level) [†]	$J^{\pi \ddagger}$	T _{1/2}	Comments
0.0	7/2+	24.84 s 16	T _{1/2} : from Adopted Levels, Gammas dataset.
69.05 <i>3</i>	$(3/2)^+$	23.3 [#] ns 7	
105.937 5 116.82 7	5/2+	8.7 [#] ns 2	
187.76 2	+	<1.9 [#] ns	
206.65		<2.1 [#] ns	
369.5 1	$11/2^{+}$		
389.0 <i>13</i>	9/2+		
468.0	+		
492.8			
557.1	+		
644.2	+		
668.7			
801.0			
843.1			
975.2			
979.8 <i>19</i>			
1097.12	$7/2^{(-)}, 5/2^{(-)}$		
1121.0 24			
1134.3			
1195.5			
1338.7			
1556.6	$5/2^{(-)}, 7/2^{(-)}$		

[†] Values of 1988Fa06 are listed (the least-squares fit to E γ values gives normalized χ^2 =4.2 > critical χ^2 =1.4 which indicates that numerous E $_{\gamma}$ values are inadequate).

[‡] Adopted values.

[#] From γ (t) (1975Mo03).

 β^- radiations

Measured av $E\beta = 1960 \ 110 \ (1980A115, 1982A101).$

E(decay)	E(level)	$I\beta^{-\dagger @}$	Log ft	Comments
(4723 <i>10</i>)	1556.6	12	5.4	av $E\beta$ =2041.8 52
(4941 <i>10</i>)	1338.7	0.9	6.6	av $E\beta$ =2144.2 52
(5085 <i>10</i>)	1195.5	1.3	6.5	av $E\beta$ =2211.5 52

Continued on next page (footnotes at end of table)

¹⁴¹Xe β^- decay 1988Fa06 (continued)

β^{-} radiations (continued)

E(decay)	E(level)	Iβ ^{−†@}	Log ft		Comments
(5146 10)	1134.3	2.5	6.3	av Eβ=2240.3 52	
(5159 10)	1121.0	2.5	6.3	av E β =2246.5 53	
(5183 10)	1097.12	24	5.3	av E β =2257.8 52	
(5300 10)	979.8	4.4	6.1	av E β =2312.9 53	
(5305 10)	975.2	0.3	7.2	av E β =2315.1 52	
(5437 10)	843.1	0.6	7.0	av E β =2377.2 52	
(5479 10)	801.0	1.1	6.7	av E β =2397.0 52	
(5611 10)	668.7	0.7	7.0	av E β =2459.2 52	
(5636 10)	644.2	1.9	6.6	av Eβ=2470.7 52	
(5723 10)	557.1	0.1	7.9	av E β =2511.7 52	
(5787 10)	492.8	0.7	7.0	av Eβ=2541.9 52	
(5812 10)	468.0	2.4	6.5	av Eβ=2553.6 52	
(5891 10)	389.0	0.7	7.1	av Eβ=2590.7 52	
(5911 10)	369.5	1.6	6.7	av Eβ=2599.9 52	
(6073 10)	206.65	2.8	6.5	av E β =2676.5 52	
(6092 10)	187.76	5.9	6.2	av Eβ=2685.3 52	
(6163 10)	116.82	0.3	7.5	av Eβ=2718.7 52	
(6211 10)	69.05	8.2	6.1	av Eβ=2741.1 52	
(6280 10)	0.0	<20 ^{‡#}	>5.7	av E β =2773.6 52	

[†] Based on imbalance of $I(\gamma+ce)$ and assumption that $I\beta(g.s.)\approx 20\%$. According to 1988Fa06, the unplaced gammas contribute about 30% of the observed feeding to the g.s., of which 5% are assumed to go to the g.s. and 25% to the exited levels up to 1556 keV (last observed level). Due to the unassigned feeding the given values of $I\beta$ represent their upper limits and the log *ft* represent their lower limits. Most affected are the lower 117, 188, 207 and 370 levels whose $I\gamma$ imbalance produces negative β feeding. This was solved by 1988Fa06 by redistributing the high positive feeding of the 69 level following a series of assumptions regarding the intensities of the low-energy γ' s present in this region, as well as expected β feedings. Due to this fact the original values of 1988Fa06 are listed for all levels.

[‡] Based on 1988Fa06 reanalysis (superseding that of 1976Ot03) of total intensity balance of ¹⁴¹Xe and ¹⁴¹Cs β^- decay schemes implying g.s.-to-g.s. β^- feedings and measured γ -ray intensities including conversion electrons and unplaced γ -rays. (For a detailed discussion see intensity balance equations on page 915 of 1988Fa06 and arguments thereafter). According to 1988Fa06 about 5% of the unplaced γ feeding goes to the g.s. increasing its γ feeding from \approx 80 up to rougly \approx 85%, which would correspondingly decrease its β feeding from \approx 20% to \approx 15%. Finally because all deductions are inaccurate we adopt 20% as an upper limit.

[#] Additional information 1.

[@] Absolute intensity per 100 decays.

$\gamma(^{141}Cs)$

I γ normalization: based on the imbalance of I(γ +ce) and assumption that I β (g.s.) \approx 20% (reanalysis of 1976Ot03 data by 1988Fa06).

 $E\gamma$ and $I\gamma$ values are from 1988Fa06 and 1977TaZZ, except $E\gamma$ =118.705 4, 105.937 5, 100.721 2, 81.826 2 which are from 1976Ot03. See 1976Ot03 for many other γ 's not observed by 1977TaZZ and 1988Fa06.

 α (K)exp: determined by simultaneous measurement of I γ and Ice(K) normalized to α (K)exp for standard γ transitions (1976Ot03). Unplaced γ 's are from 1977TaZZ.

Eγ	$I_{\gamma}^{\#}$	E _i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}	Mult.	δ^{\ddagger}	α^{\dagger}	Comments
37 1		105.937	5/2+	69.05	$(3/2)^+$	[M1]			
47.78 5	0.7 2	116.82		69.05	$(3/2)^+$				
69.05 <i>3</i>	20 1	69.05	$(3/2)^+$	0.0	$7/2^{+}$	(E2)		7.07	$\alpha(K)=3.53\ 5;\ \alpha(L)=2.79\ 4;\ \alpha(M)=0.608\ 9$
									α (N)=0.1227 <i>18</i> ; α (O)=0.01406 <i>20</i> ; α (P)=9.26×10 ⁻⁵ <i>13</i> E_{γ} : E_{γ} =68.994 is reported by 1979Bo26; however, 1988Fa06, on the basis of cascade and crossover sums, conclude that this transition is misassigned. Mult.: from balance of I(69 γ) and I(119 γ) in $\gamma\gamma$ and fact that 119 α is M1+(E2) (1988Fa06)
81.826.2	14 /	187.76	+	105.937	$5/2^{+}$	[M1]		1.599	$\alpha(K) = 1.369.20; \alpha(L) = 0.183.3; \alpha(M) = 0.0375.6$
01.020 2	111	107.70		100.707	0/2	[[,]]]		1.577	$\alpha(N) = 0.00792$ 11: $\alpha(O) = 0.001100$ 16: $\alpha(P) = 5.39 \times 10^{-5}$ 8
89 10 6	081	557 1	+	468.0	+				$u(1)=0.00772$ 11, $u(0)=0.001100$ 10, $u(1)=5.57\times10^{-10}$
89.80 4	2.0.2	206.65		116.82					
100.721 2	11.3.8	206.65		105.937	$5/2^{+}$				
105.942 6	41.3	105.937	$5/2^{+}$	0.0	$7/2^+$	M1+E2	5.9 16	1.50.3	$\alpha(K) = 1.002 \ 17; \ \alpha(L) = 0.394 \ 10; \ \alpha(M) = 0.0850 \ 20$
			-7-		.,_				α (N)=0.0173 4; α (O)=0.00204 5; α (P)=2.83×10 ⁻⁵ 4 Mult., δ : from Adopted Levels, Gammas dataset.
118.705 4	67 5	187.76	+	69.05	(3/2)+				Mult.: α (K)exp=0.20 8 from which 1976Ot03 adopted M1,E2 while E1(+M2) is a better match (not adopted because it would contradict parity conservation).
122.5 8	0.2 1	492.8		369.5	$11/2^{+}$				······································
137.63 4	3.4 2	206.65		69.05	$(3/2)^+$				
167.6 4	0.19 6	557.1	+	389.0	9/2+				
187.69 4	11.8 8	187.76	+	0.0	7/2+	E2,(M1)		0.18 3	α (K)=0.147 <i>14</i> ; α (L)=0.0271 <i>96</i> ; α (M)=0.0057 <i>21</i> α (N)=0.00118 <i>42</i> ; α (O)=1.52×10 ⁻⁴ <i>47</i> ; α (P)=5.14×10 ⁻⁶ <i>12</i> Mult.: α (K)exp=0.16 <i>6</i> , may be M1+E2 or E2.
254.1 [@] 6	< 0.47	1097.12	$7/2^{(-)}, 5/2^{(-)}$	843.1					
$255 24^{@} 5$	$34^{@}3$	644.2	+	389.0	$9/2^{+}$				
261 3 5	0 15 7	468.0	+	206.65	<i>)</i> <i>2</i>				
280.26.7	0.3 /	468.0	+	187.76	+				
283.05 4	2.2.2	389.0	$9/2^{+}$	105.937	$5/2^{+}$				
286.0 [@] 1	≤0.99 [@]	492.8	~,=	206.65	5/2				

					141 Xe β^- dec	cay 198	8Fa06 (contin	nued)
					<u>γ(</u>	141 Cs) (co	ntinued)	
Eγ	$I_{\gamma}^{\#}$	E_i (level)	${ m J}^{\pi}_i$	E_f	J_f^π	Mult.	α^{\dagger}	Comments
286.0 [@] 1	<0.99 [@]	843.1		557.1	+			
304.9 3	0.7 1	492.8		187.76	+			
320.2° 5	<0.25	389.0	9/2+	69.05	$(3/2)^+$			
$320.2 \circ 5$	<0.25	1121.0		801.0	+			
335.0.5	0.31 021	801.0 979.8		408.0 644 2	+			
361.96 5	4.8 4	468.0	+	105.937	5/2+	M1,E2	0.0258 17	α (K)=0.0218 <i>18</i> ; α (L)=0.00316 <i>13</i> ; α (M)=0.00065 <i>4</i> α (N)=0.000136 <i>6</i> ; α (O)=1.85×10 ⁻⁵ <i>4</i> ; α (P)=8.1×10 ⁻⁷ <i>11</i>
360 5 1	<0.4	360.5	11/2+	0.0	7/2+			Mult.: $\alpha(K)\exp=0.024$ 15, may be M1+E2. Mult : $\alpha(K)\exp=0.023$ may be M1+E2 or E1
369.5 1	<0.4 8.0 <i>4</i>	557.1	+	187.76	+			Mult.: $\alpha(\mathbf{K})\exp[0.023]$, may be M1+E2 of E1. Mult.: $\alpha(\mathbf{K})\exp[0.023]$, may be M1+E2 or E1.
387.00 6	2.5 2	492.8		105.937	5/2+			
389.11 4	6.7 7	389.0	9/2+	0.0	7/2+	M1,E2	0.0211 17	$\alpha(K)=0.0179 \ 18; \ \alpha(L)=0.00255 \ 5; \ \alpha(M)=0.000524 \ 13 \ \alpha(N)=0.0001101 \ 21; \ \alpha(O)=1.50\times10^{-5} \ 3; \ \alpha(P)=6.6\times10^{-7} \ 10 \ Mult.: \ \alpha(K)exp=0.02 \ 1.$
398.9 2	1.4 <i>I</i>	468.0	+	69.05	$(3/2)^+$			
^x 407.22 41	0.295 86	001.0						
412.5 7	0.2 I	801.0		389.0	9/2+			
422.4 [©] 2	1.7 5	979.8		557.1	Ŧ			
422.4 2	1.7° 5	1556.6	$5/2^{(-)}, 7/2^{(-)}$	1134.3	$(2/2)^{+}$			
423.89 3	8.0 /	492.8	5/2(-) $7/2(-)$	09.05	$(3/2)^{-1}$			
437.7.4	0.7 I 0.4 I	644.2	5/2 , 7/2	206.65				
^x 444.40 46	0.27 12	011.2		200.05				
451.5 4	1.2 3	557.1	+	105.937	5/2+			
453.2 2	2.3 4	1097.12	$7/2^{(-)}, 5/2^{(-)}$	644.2	+			
456.8 3	2.0 2	644.2	+	187.76	+			
459.30 <i>4</i>	23 2	1556.6	5/2(-),7/2(-)	1097.12	7/2 ⁽⁻⁾ ,5/2 ⁽⁻⁾	M1,E2	0.0135 16	$\alpha(K)=0.0115 \ I5; \ \alpha(L)=0.00158 \ 7; \ \alpha(M)=0.000325 \ I2$ $\alpha(N)=6.8\times10^{-5} \ 3; \ \alpha(O)=9.4\times10^{-6} \ 6; \ \alpha(P)=4.3\times10^{-7} \ 7$ Mult.: $\alpha(K)\exp=0.013 \ 6.$
462.10 4	1.6 2	668.7		206.65				
467.81 <i>4</i>	12 1	468.0	Ŧ	0.0	7/2+	M1,E2	0.0128 15	$\alpha(K)=0.0109 \ 14; \ \alpha(L)=0.00150 \ 8; \ \alpha(M)=0.000309 \ 13 \ \alpha(N)=6.5\times10^{-5} \ 3; \ \alpha(O)=8.9\times10^{-6} \ 7; \ \alpha(P)=4.1\times10^{-7} \ 7 \ Mult.: \ \alpha(K)exp=0.015 \ 6.$
473.1 4	0.7 2	843.1		369.5	11/2+			
476.6 5	0.5 2	1121.0		644.2	+			
480 1	0.5 4	668.7		187.76	+			
482.22	0.92	975.2 702 8		492.8	7/2+			
x498.43 78	0.19 12	+72.0		0.0	112			

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From ENSDF

 $^{141}_{55}\mathrm{Cs}_{86}\text{-}4$

	$\frac{141}{3} \text{Xe } \beta^{-} \text{ decay} \qquad 1988 \text{Fa06 (continued)}$										
						$\gamma(^{14}$	¹¹ Cs) (continu	ued)			
Eγ	$I_{\gamma}^{\#}$	E _i (level)	J_i^π	E_f	J_f^π	Mult.	α^{\dagger}	Comments			
507.6 4 511.9 4 x518.00.72	0.5 2 2.1 4 0.21 12	975.2 979.8		468.0 468.0	+ +						
538.4 1	5.3 4	644.2	+	105.937	5/2+	M1,E2	0.0089 12	α (K)=0.0076 <i>11</i> ; α (L)=0.00102 <i>9</i> ; α (M)=0.000210 <i>16</i> α (N)=4.4×10 ⁻⁵ <i>4</i> ; α (O)=6.1×10 ⁻⁶ <i>6</i> ; α (P)=2.9×10 ⁻⁷ <i>5</i> Mult.: α (K)exp(538γ+540γ)=0.011 <i>3</i> .			
540.12 4	22 2	1097.12	7/2 ⁽⁻⁾ ,5/2 ⁽⁻⁾	557.1	+	(E1)	0.00259	$\alpha(K)=0.00225 4; \alpha(L)=0.000279 4; \alpha(M)=5.67\times10^{-5} 8$ $\alpha(N)=1.195\times10^{-5} 17; \alpha(O)=1.657\times10^{-6} 24; \alpha(P)=8.07\times10^{-8} 12$ Mult.: $\alpha(K)\exp(540\gamma+538\gamma)=0.011 3$.			
x544.87 53	0.36 15										
551.7 1 556.8 1	2.0 2 14 <i>I</i>	1195.5 557.1	+	644.2 0.0	- 7/2 ⁺	M1,E2	0.0082 12	$\alpha(K)=0.0070 \ 11; \ \alpha(L)=0.00094 \ 9; \ \alpha(M)=0.000192 \ 16 \ \alpha(N)=4.0\times10^{-5} \ 4; \ \alpha(O)=5.6\times10^{-6} \ 6; \ \alpha(P)=2.6\times10^{-7} \ 5 \ Mult.: \ \alpha(K)exp=0.008 \ 3.$			
^x 560.81 <i>3</i> 8	0.52 13										
576.4 2 ^x 580.58 61	1.6 2 0.27 <i>13</i>	1556.6	5/2 ⁽⁻⁾ ,7/2 ⁽⁻⁾	979.8							
594.2 1	2.1 2	801.0		206.65	(2.12) +						
599.7 3	0.7 2	668.7	7/2(-) = 5/2(-)	69.05	$(3/2)^{+}$						
604.3 Z	2.3 2	801.0	1/2 ,5/2	492.8	+						
x624.85.88	0.18 12	801.0		107.70							
628.8 <i>3</i> x630.83 <i>37</i>	2.5 <i>3</i> 1.90 <i>31</i>	1097.12	7/2 ⁽⁻⁾ ,5/2 ⁽⁻⁾	468.0	+						
641.19 7	6 1	1134.3		492.8							
644.2 2	2.5 2	644.2	+	0.0	7/2+						
669.34	$0.5\ 2$	668.7		0.0	7/2+						
x681 63 82	0.26.15										
x704.87 94	0.39 16										
708.6 7	0.4 2	1097.12	$7/2^{(-)}, 5/2^{(-)}$	389.0	9/2+						
^x 713.58 <i>31</i>	0.56 17										
x729.07 53	0.54 18	001.0		<0.0 7	(2.12) +						
731.92 8	2.3 3	801.0		69.05	$(3/2)^{+}$						
740.11 79	0.27 10	1134 3		389.0	$9/2^{+}$						
755.32 6	5.6 5	1556.6	$5/2^{(-)}.7/2^{(-)}$	801.0	7/2						
772.9 5	9.4 6	979.8	, ,.,-	206.65							
x777.73 18	1.38 16										
^x 783.14 <i>57</i>	0.31 13	070.0		107.74	+						
791.9 1	1.5 2	9/9.8		187.76							

S

From ENSDF

 $^{141}_{55}\mathrm{Cs}_{86}\text{--}5$

 $^{141}_{55}\mathrm{Cs}_{86}\text{--}5$

I

$\gamma(^{141}Cs)$	(continued)
$\gamma(-cs)$	(continueu)

Eγ	$I_{\gamma}^{\#}$	E_i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_{f}^{π}	Eγ	$I_{\gamma}^{\#}$	E _i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_{f}^{π}
801.0 3	0.8 2	801.0		0.0	7/2+	1064.62 7	3.3 3	1556.6	5/2(-),7/2(-)	492.8	
^x 804.65 <i>36</i>	1.06 23					^x 1075.18 46	0.310 93				
807.0 4	0.8 2	1195.5		389.0	9/2+	^x 1082.20 27	0.56 12				
^x 819.36 <i>93</i>	0.19 11					1089.6 5	0.6 2	1195.5		105.937	5/2+
^x 823.51 15	1.25 13					^x 1092.08 38	0.78 19				
^x 828.38 49	0.44 14					1097.41 8	3.6 6	1097.12	$7/2^{(-)}, 5/2^{(-)}$	0.0	7/2+
^x 830.70 79	0.27 14					x1099.06 23	2.37 47				
842.7 2	1.5 2	843.1		0.0	$7/2^{+}$	^x 1104.31 76	0.200 98				
^x 845.46 <i>39</i>	0.70 13					^x 1111.88 70	0.32 15				
^x 848.13 25	1.03 13					^x 1116.22 <i>93</i>	0.24 13				
^x 851.20 29	0.70 12					1121.1 <i>1</i>	2.8 3	1121.0		0.0	$7/2^{+}$
^x 854.45 20	1.23 19					1132.0 6	0.5 2	1338.7		206.65	
^x 857.44 50	0.39 18					1134.8 4	0.9 2	1134.3		0.0	7/2+
^x 867.26 90	0.27 16					^x 1140.59 26	0.44 13				
^x 870.00 27	1.07 18					1150.6 <i>3</i>	0.9 2	1338.7		187.76	+
873.8 4	0.4 1	979.8		105.937	5/2+	^x 1159.05 51	0.35 13				
^x 881.49 88	0.17 10					1168 <i>1</i>	0.2 1	1556.6	$5/2^{(-)}, 7/2^{(-)}$	389.0	9/2+
^x 894.65 15	3.26 35					^x 1178.90 86	0.44 12				
^x 897.05 <i>30</i>	1.34 29					^x 1190.8 14	0.17 12				
^x 903.4 19	0.91 40					^x 1207.92 36	0.58 13				
909.23 5	100 7	1097.12	$7/2^{(-)}, 5/2^{(-)}$	187.76	+	x1213.03 56	0.64 24				
913.4 5	2.4 9	1121.0		206.65		^x 1215.97 52	1.90 <i>51</i>				
^x 919.41 62	0.26 15					^x 1218.05 45	1.58 59				
^x 925.74 <i>3</i> 9	0.43 12					^x 1231.10 92	0.66 23				
933 1	0.4 4	1121.0		187.76	+	1232.9 <i>1</i>	2.3 3	1338.7		105.937	$5/2^{+}$
^x 934.5 10	0.42 35					^x 1238.40 56	0.44 12				
^x 942.95 42	0.57 14					^x 1241.7 12	0.21 12				
946.1 6	0.5 1	1134.3		187.76	+	^x 1246.48 16	1.29 15				
^x 949.59 19	1.29 16					^x 1252.37 39	0.43 11				
x974.02 <i>32</i>	0.51 12					^x 1260.94 29	0.55 12				
979.7 <i>3</i>	6.6 7	979.8		0.0	7/2+	1270.4 5	0.3 1	1338.7		69.05	$(3/2)^+$
^x 985.93 23	1.28 17					^x 1283.10 68	0.76 13				
988.9 <i>5</i>	0.8 2	1195.5		206.65		^x 1292.55 93	0.176 93				
999.8 6	0.6 2	1556.6	$5/2^{(-)}, 7/2^{(-)}$	557.1	+	^x 1304.79 66	0.25 10				
1007.6 <i>I</i>	1.9 <i>3</i>	1195.5		187.76	+	^x 1310.92 <i>33</i>	0.68 12				
1015.0 <i>I</i>	1.3 1	1121.0		105.937	5/2+	^x 1314.68 74	0.38 12				
^x 1025.96 76	0.42 21					^x 1318.28 47	0.49 12				
1028.25 7	5.1 4	1134.3		105.937	5/2+	^x 1328.80 49	0.35 10				
^x 1037.08 59	0.33 10					^x 1344.82 <i>38</i>	0.64 15				
1051.96 9	4.6 4	1121.0		69.05	$(3/2)^+$	^x 1351.35 22	1.05 16				
^x 1056.76 72	0.28 12					^x 1362.89 84	0.44 14				

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 $^{141}_{55}\mathrm{Cs}_{86}\text{-}6$

$\gamma(^{141}Cs)$ (continued)

E_{γ}	$I_{\gamma}^{\#}$	E_i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_f^{π}	Eγ	$I_{\gamma}^{\#}$	E _i (level)
1368.8 <i>1</i>	5.3 6	1556.6	$5/2^{(-)}, 7/2^{(-)}$	187.76	+	x1829.53 42	0.52 11	
x1372.54 50	0.55 17		-1) 1			^x 1855.71 49	0.39 10	
x1383.83 40	0.76 16					x1860.30 25	0.88 12	
^x 1392.98 53	0.54 16					^x 1870.95 53	0.34 10	
^x 1396.4 16	0.17 15					^x 1882.43 35	0.67 12	
x1404.47 20	1.13 16					^x 1886.51 75	0.26 10	
^x 1420.52 56	0.268 88					^x 1892.17 83	0.38 10	
x1428.33 49	0.39 11					x1902.01 46	0.39 10	
^x 1431.90 68	0.25 11					^x 1918.20 33	0.95 16	
x1440.24 84	0.34 16					^x 1922.46 45	0.67 14	
^x 1442.9 <i>13</i>	0.21 16					^x 1935.35 63	0.61 14	
^x 1448.84 47	0.310 92					^x 1951.3 12	0.19 12	
^x 1469.20 <i>64</i>	0.33 12					^x 1964.7 12	0.19 11	
^x 1480.67 81	0.26 12					^x 1993.4 <i>13</i>	0.17 11	
x1489.62 20	1.26 16					^x 1998.82 63	0.37 12	
^x 1498.52 <i>63</i>	0.50 13					^x 2009.3 13	0.16 11	
x1502.83 17	1.72 19					x2019.92 20	1.30 16	
^x 1511.12 88	0.25 12					^x 2039.3 13	0.33 14	
^x 1537.9 14	0.17 13					x2042.60 53	0.75 15	
^x 1545.97 91	0.20 17					^x 2047.0 14	0.21 12	
^x 1550.95 80	0.39 16					^x 2057.16 76	0.49 12	
1556.66 8	12 <i>I</i>	1556.6	$5/2^{(-)}, 7/2^{(-)}$	0.0	$7/2^{+}$	^x 2101.2 13	0.16 11	
^x 1575.34 42	0.350 93					^x 2109.1 12	0.21 12	
^x 1580.19 27	0.63 10					^x 2119.95 99	0.23 11	
^x 1585.90 97	0.165 85					x2125.07 89	0.24 11	
^x 1601.62 29	0.74 12					^x 2131.9 <i>12</i>	0.18 10	
^x 1621.36 94	0.22 11					x2211.53 35	0.66 12	
^x 1630.49 57	0.35 12					^x 2235.55 62	0.36 11	
^x 1637.08 53	0.40 13					^x 2244.5 12	0.17 10	
^x 1643.9 12	0.17 12					^x 2282.79 43	0.59 12	
^x 1653.9 11	0.20 12					^x 2303.41 20	1.87 20	
x1658.58 39	0.60 12					^x 2312.11 85	0.27 11	
^x 1687.88 35	0.87 15					^x 2334.26 70	0.280 91	
^x 1733.48 86	0.41 18					^x 2371.76 69	0.253 81	
^x 1736.4 <i>12</i>	0.29 18					^x 2386.82 76	0.186 88	
^x 1749.31 40	0.52 12					*2394.79 55	0.427 94	
*1755.73 12	2.40 23					*2412.03 48	0.378 87	
^1770.45 <i>16</i>	1.89 21					^{*2431.73} 35	0.555 93	
*1784.02 91	0.27 14					^2447.58 43	0.423 89	
^1789.8 <i>12</i>	0.17 14					² 2474.16 90	0.221 87	
^1800.05 18	1.48 18					*2497.0 13	0.149 86	

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$\gamma(^{141}Cs)$ (continued)

Eγ	$I_{\gamma}^{\#}$	E _i (level)	Eγ	$I_{\gamma}^{\#}$	E _i (level)	Eγ	$I_{\gamma}^{\#}$	E _i (level)
x2519.0 12	0.165 88		x2703.35 91	0.183 71		^x 2873.5 13	0.155 85	
^x 2537.98 60	0.303 85		^x 2710.88 61	0.283 73		^x 2878.03 83	0.260 79	
^x 2547.93 15	1.75 18		^x 2726.94 61	0.333 82		x2908.3 10	0.160 71	
^x 2561.67 84	0.191 <i>91</i>		^x 2732.2 16	0.20 12		^x 2948.25 55	0.411 74	
^x 2567.38 97	0.170 84		^x 2735.92 37	0.86 14		^x 3107.8 12	0.110 52	
x2578.06 52	0.353 88		x2762.42 62	0.207 60		x3230.9 12	0.098 47	
x2600.18 40	0.56 10		^x 2790.75 61	0.263 68		^x 3364.13 98	0.106 39	
x2630.06 41	0.514 95		^x 2799.56 96	0.162 66		x3383.8 10	0.097 40	
^x 2635.93 80	0.247 83		^x 2817.9 10	0.177 68		^x 3415.4 <i>14</i>	0.080 40	
^x 2655.66 98	0.181 82		^x 2828.22 68	0.215 62				
^x 2682.93 79	0.159 78		^x 2840.59 <i>33</i>	0.459 76				

[†] Additional information 2.
[‡] Additional information 3.
[#] For absolute intensity per 100 decays, multiply by ≈0.24.

[@] Multiply placed with undivided intensity.

 $x \gamma$ ray not placed in level scheme.



¹⁴¹₅₅Cs₈₆

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Decay Scheme (continued)



¹⁴¹₅₅Cs₈₆

10

Decay Scheme (continued)

