Adopted Levels, Gammas

History

		T	ype	Author	Citation	Literature Cutoff Date					
		Full Ev	aluation	C. D. Nesaraja NDS 189,1 (2023)		14-Feb-2023					
Q(β ⁻)=895.9 15 S(2n)=11417.2 2	; S(n)=605 20, S(2p)=1	0.0 <i>19</i> ; S(p) 2480 <i>30</i> (sy	=5194.6 2 yst) (2021	29; $Q(\alpha)=5.16\times10^{-10}$ Wa16).	³ 10 2021Wa16						
				24	⁵ Am Levels						
				Cross Refe	erence (XREF) Flags						
				$\begin{array}{c} \mathbf{A} & {}^{245}\mathbf{P} \\ \mathbf{B} & {}^{249}\mathbf{B} \end{array}$	u β^- decay k α decay						
E(level) [†]	J^{π}	T _{1/2}	XREF			Comments					
0.0‡	5/2+	2.05 h <i>1</i>	AB	$%β^{-}=100$ T _{1/2} : From weig (decay, 1983Pd 1955Fi37) and J ^π : M1(+E2) 327 β- feeding to t 7/2 ⁺ g.s. of ²⁴	hted average of 123.0 p15). Others: 125 mir 124 min <i>l</i> (decay, 19 7.4γ from $7/2^+$ 327-kg he 5/2 ⁺ level in ²⁴⁵ Cr ⁹ Bk excludes 7/2 ⁺ ; fr	min 6 (decay, 1968Da02), 122.5 min 8 a 5 (decay, 1955Br02), 119 min 1 (decay, 956Bu92). eV level to g.s; $\log ft = 6.4$ for the ²⁴⁵ Am m rules out 9/2 ⁺ ; HF=98 for α decay from om the assigned bandhead configuration.					
19.209 [‡] 10	7/2+		AB	J^{π} : M1(+E2) 308.222 γ from 7/2 ⁺ 327-keV level; M1 376.676 γ from 9/2 ⁺ 396-keV levels; band member.							
28.27 [#] 13	(5/2 ⁻)		AB	396-keV levels; band member. J^{π} : (E1) 28 γ to 5/2 ⁺ g.s.; comparison with single-particle energies in ²³⁹ Am, ²⁴¹ Am, and ²⁴³ Am and the large hindrance factor in the ²⁴⁹ Bk α decay suggest spin flip transition (2013Ah03); from the assigned bandhead configuration.							
47.083 [‡] <i>12</i>	$(9/2^+)$		AB	J^{π} : (M1+E2) 280	0.385γ from $7/2^+$ 327	-keV level; band member.					
70.40 [#] 8	$(7/2^{-})$		AB	J ^{π} : 817.04 γ from	n (7/2 ⁺) 887-keV leve	l; band member.					
87.66 [‡] 4	$(11/2^+)$		AB	J ^{π} : 308.222 γ from member.	m 9/2 ⁺ 396-keV level	; 475.1 γ from 11/2 ⁺ 476-keV level; band					
124.65 [#] 8	(9/2-)		AB	J ^{π} : 762.73 γ from band member.	n (7/2 ⁺) 887-keV leve	l; 833.14 γ from (9/2 ⁺) 958-keV level;					
134.48 [‡] <i>11</i>	$(13/2^+)$		AB	J^{π} : 341.00 γ from	n 11/2 ⁺ 476-keV level	; band member.					
154.5 [@] 25	(3/2 ⁻)		В	E(level): From 24 J ^{π} : From the onl state (2013Ah)	⁴⁹ Bk α decay. y single particle-state)3); from the assigned	available in this region, 3/2 ⁻ [521] Nilsson I bandhead configuration.					
187.0 [@] 25	(5/2-)		В	E(level): From 2^{4} J ^{π} : Band membe	⁴⁹ Bk α decay. r.						
190.74 [#] 12	$(11/2^{-})$		Α	J ^{π} : 766.59 γ from	$(9/2^+)$ 957-keV leve	l; band member.					
231.7 ^{⁽⁰⁾} 25	$(7/2^{-})$		В	E(level): From 2^{2} J ^{π} : Band membe	⁴⁹ Bk α decay. r.						
292.7 [@] 25	(9/2 ⁻)		В	E(level): From ²⁴ J^{π} : Band membe	⁴⁹ Bk α decay. r.						
327.421 ^{&} 8	7/2+		AB	J ^{π} : Favoured α f	eeding from ²⁴⁹ Bk; fr	om the assigned bandhead configuration.					
395.887 <mark>&</mark> 11	9/2+		AB	J^{π} : Band membe	r.						
475.531 ^{&} 22	11/2+		AB	J ^π : 387.879γ to (member.	(11/2 ⁺) 88-keV level;	428.438 γ to (9/2 ⁺) 47-keV level; band					
563.04 ^{&} 20 887.472 <i>13</i>	(13/2 ⁺) (7/2 ⁺)		A A	J^{π} : 428.438 γ from J^{π} : (E2) 560.134	m (13/2 ⁺) 563-keV le γ to 7/2 ⁺ 327-keV lev	vel; band member. vel; (E2) 491.591 γ to 9/2 ⁺ 396-keV level;					

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

²⁴⁵Am Levels (continued)

E(level) [†]	J^{π}	T _{1/2}	XREF
920.97 6	(9/2+,11/2+)		AB
957.420 15	$(9/2^+)$		A
987.52 4	$(7/2^+, 9/2^+)$		Α
1025.971 18	$(7/2^+, 9/2^-)$		Α
1065.23 8			Α
1111.22 18			Α
1185.58 30			Α
$2.4 \times 10^3 4$		640 ns 60	

	Comments
859.53γ to	$(5/2^{-})$ 28-keV level; 799.87 γ to $(11/2^{+})$ 88-keV level.
J^{π} : 593.7 γ to	$7/2^+$ 327-keV level; 525.08 γ to $9/2^+$ 396-keV level;
445.34 γ to	$11/2^+$ 476-keV level; 357.90 γ to (13/2 ⁺) 563-keV level.
J^{π} : 824 γ to ($13/2^+$) 135-keV level; 987.60 γ to $5/2^+$ g.s.
J^{π} : 511.5 γ to	$11/2^+$ 465-keV level; 987.60 γ to $5/2^+$ g.s.
J^{π} : 549.2 γ to	$11/2^+$ 475-keV level; 996.0 γ to (5/2 ⁻) 28-keV level.

%SF ≤ 100

E(level): No experimental value available. Estimated by evaluator based
on systematics of SF isomers in odd americium isotopes given by
1971Br39 and calculated values by 1990Bh02 (E=2.60 MeV) and
2020Ja01 (E=2.23 MeV).

Only SF decay mode was observed. See ²⁴⁴Pu(t,2n) (1972Br35),

²⁴⁴Pu(α ,p2n) (1972Wo07). T_{1/2}: From measurement of the fissioning isomer produced by ²⁴⁴Pu(α ,p2n) reaction (1972Wo07). Other: 390 ns 70 (1972Br35); Decay was followed for one period, the uncertainty is statistical only, and 1972Br35 stated that a systematic error in background subtraction could have led to an underestimated $T_{1/2}$. A half-life of 640 ns 60 has also been recommended by 1973Br38 and 1990Bh02. See also 2002Si26.

[†] From least-squares fit to $E\gamma$ data by the evaluator except as noted.

[‡] Band(A): $\pi 5/2[642]$ band.

[#] Band(B): $\pi 5/2[523]$ band.

[@] Band(C): *π*3/2[521] band.

[&] Band(D): $\pi 7/2[633]$ band.

Adopted Levels, Gammas (continued)									
							γ ⁽²⁴⁵ Am)		
E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\dagger}	E_{f}	J_f^{π}	Mult. ^{†‡}	δ^{\ddagger}	α #	Comments
28.27	(5/2 ⁻)	28 1	100	0.0	5/2+	(E1)		3.8 4	$\alpha(L)=2.78\ 27;\ \alpha(M)=0.73\ 7$ $\alpha(N)=0.195\ 20;\ \alpha(O)=0.044\ 4;\ \alpha(P)=0.0059\ 5;$ $\alpha(O)=0.000138\ 10$
327.421	7/2+	280.385 13	5.1 5	47.083	(9/2+)	(M1+E2)	0.7 +7-6	1.1 4	$\alpha(Q)=0.000138\ 10$ $\alpha(K)=0.9\ 4;\ \alpha(L)=0.21\ 4;\ \alpha(M)=0.054\ 8$ $\alpha(N)=0.0147\ 20;\ \alpha(O)=0.0037\ 5;\ \alpha(P)=0.00068\ 13;$ $\alpha(Q)=3.6\times10^{-5}\ 15$
		308.222 [@] 8	19.3 20	19.209	7/2+	M1(+E2)	0.6 9	0.9 4	$\alpha(K)=0.7$ 4; $\alpha(L)=0.17$ 4; $\alpha(M)=0.041$ 9 $\alpha(N)=0.0113$ 24; $\alpha(O)=0.0028$ 6; $\alpha(P)=5.3\times10^{-4}$ 14; $\alpha(O)=3.0\times10^{-5}$ 15
		327.428 8	100 10	0.0	5/2+	M1(+E2)	0.5 7	0.85 <i>33</i>	$\alpha(Q)=3.0\times10^{-115} \text{ a}(M)=0.036 7$ $\alpha(N)=0.0098 20; \ \alpha(O)=0.0025 5; \ \alpha(P)=0.00046 11;$ $\alpha(Q)=2.7\times10^{-5} 11$
395.887	9/2+	308.222 [@] & 348.782 9	30 <i>3</i>	87.66 47.083	(11/2 ⁺) (9/2 ⁺)	[M1]		0.862 12	$\alpha(K)=0.680 \ 10; \ \alpha(L)=0.1365 \ 19; \ \alpha(M)=0.0332 \ 5 \\ \alpha(N)=0.00908 \ 13; \ \alpha(O)=0.002286 \ 32; \ \alpha(P)=0.000437 \ 6; \\ \alpha(O)=2 \ 77 \times 10^{-5} \ 4$
		376.676 3	100 11	19.209	7/2+	(M1)		0.698 10	$\alpha(Q) = 2.71 \times 10^{-4} + 4.00 \times 10^{-4} = 0.0000000000000000000000000000000000$
		395.87 15	3.2 11	0.0	5/2+	[E2]		0.1004 14	$\alpha(Q)=2.241\times 10^{-5} I^{-5} \alpha(L)=0.0382 5; \ \alpha(M)=0.01033 I5$ $\alpha(N)=0.00285 4; \ \alpha(O)=0.000691 I0; \ \alpha(P)=0.0001187 I7;$ $\alpha(Q)=2.505\times 10^{-6} 35$
475.531	11/2+	341.00 15	19 <i>3</i>	134.48	(13/2 ⁺)	[M1]		0.917 <i>13</i>	$\alpha(\zeta) = 0.724 \ 10; \ \alpha(L) = 0.1453 \ 20; \ \alpha(M) = 0.0354 \ 5 \\ \alpha(N) = 0.00967 \ 14; \ \alpha(O) = 0.002434 \ 34; \ \alpha(P) = 0.000465 \ 7; \\ \alpha(O) = 2.95 \times 10^{-5} \ 4$
		387.879 32	55 13	87.66	(11/2 ⁺)	[M1]		0.644 9	$\alpha(K) = 0.509 7; \ \alpha(L) = 0.1019 \ 14; \ \alpha(M) = 0.02479 \ 35$ $\alpha(N) = 0.00677 \ 9; \ \alpha(O) = 0.001705 \ 24; \ \alpha(P) = 0.000326 \ 5;$ $\alpha(Q) = 2.067 \times 10^{-5} \ 29$
		428.438 [@] 22	100 9	47.083	(9/2+)	[M1]		0.491 7	$\alpha(K)=0.388\ 5;\ \alpha(L)=0.0775\ 11;\ \alpha(M)=0.01886\ 26$ $\alpha(N)=0.00515\ 7;\ \alpha(O)=0.001297\ 18;\ \alpha(P)=0.0002481\ 35;$ $\alpha(O)=1.573\times10^{-5}\ 22$
563.04	(13/2+)	428.438 [@] & 475.1 6	100 43	134.48 87.66	(13/2 ⁺) (11/2 ⁺)	[M1]		0.371 5	$\alpha(K)=0.293 \ 4; \ \alpha(L)=0.0584 \ 8; \ \alpha(M)=0.01421 \ 20 \ \alpha(N)=0.00388 \ 6; \ \alpha(O)=0.000977 \ 14; \ \alpha(P)=0.0001869 \ 27; \ \alpha(O)=1.185\times10^{-5} \ 17$
887.472	(7/2+)	411.935 41	9.1 9	475.531	11/2+	[E2]		0.0903 13	$\alpha(Q)=1.105\times10^{-17}$ $\alpha(K)=0.0450 \ 6; \ \alpha(L)=0.0332 \ 5; \ \alpha(M)=0.00896 \ 13$ $\alpha(N)=0.002470 \ 35; \ \alpha(O)=0.000600 \ 8; \ \alpha(P)=0.0001034 \ 14;$ $\alpha(O)=2.293\times10^{-6} \ 32$
		491.591 9	50 6	395.887	9/2+	(E2)		0.0579 8	$\alpha(K)=0.0329$ 5; $\alpha(L)=0.01835$ 26; $\alpha(M)=0.00489$ 7

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From ENSDF

²⁴⁵₉₅Am₁₅₀-3

L

					Adopted	d Levels, Ga	mmas (contin	ued)
						γ ⁽²⁴⁵ Am) (continued)	
E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\dagger}	\mathbf{E}_{f}	\mathbf{J}_f^{π}	Mult. ^{†‡}	α #	Comments
					<u> </u>			α (N)=0.001345 <i>19</i> ; α (O)=0.000328 <i>5</i> ; α (P)=5.74×10 ⁻⁵ <i>8</i> ; α (Q)=1.564×10 ⁻⁶ <i>22</i>
887.472	(7/2+)	560.134 [@] 49	100 9	327.421	7/2+	(E2)	0.0427 6	$\alpha(\mathbf{K})=0.0262 \ 4; \ \alpha(\mathbf{L})=0.01217 \ 17; \ \alpha(\mathbf{M})=0.00321 \ 4 \\ \alpha(\mathbf{N})=0.000882 \ 12; \ \alpha(\mathbf{O})=0.0002158 \ 30; \ \alpha(\mathbf{P})=3.81\times10^{-5} \ 5; \\ \alpha(\mathbf{O})=1.191\times10^{-6} \ 17$
		762.73 10	13.1 <i>13</i>	124.65	(9/2 ⁻)	[E1]	0.00677 9	$\alpha(\mathbf{K}) = 0.00548 \ 8; \ \alpha(\mathbf{L}) = 0.000978 \ 14; \ \alpha(\mathbf{M}) = 0.0002346 \ 33$ $\alpha(\mathbf{N}) = 6.37 \times 10^{-5} \ 9; \ \alpha(\mathbf{O}) = 1.593 \times 10^{-5} \ 22; \ \alpha(\mathbf{P}) = 2.98 \times 10^{-6} \ 4;$
		799.87 10	29 <i>3</i>	87.66	(11/2 ⁺)	[E2]	0.02015 28	$\alpha(Q)=1.772\times10^{-7}2.5$ $\alpha(K)=0.01416\ 20;\ \alpha(L)=0.00445\ 6;\ \alpha(M)=0.001139\ 16$ $\alpha(N)=0.000312\ 4;\ \alpha(O)=7.71\times10^{-5}\ 11;\ \alpha(P)=1.400\times10^{-5}\ 20;$ $\alpha(Q)=5\ 86\times10^{-7}\ 8$
		817.04 10	15.6 <i>16</i>	70.40	(7/2 ⁻)	[E1]	0.00599 8	$\alpha(\mathbf{K}) = 0.00485 \ 7; \ \alpha(\mathbf{L}) = 0.000861 \ 12; \ \alpha(\mathbf{M}) = 0.0002063 \ 29$ $\alpha(\mathbf{N}) = 5.60 \times 10^{-5} \ 8; \ \alpha(\mathbf{O}) = 1.401 \times 10^{-5} \ 20; \ \alpha(\mathbf{P}) = 2.63 \times 10^{-6} \ 4;$ $\alpha(\mathbf{O}) = 1.575 \times 10^{-7} \ 22$
		840.56 10	23.8 25	47.083	$(9/2^+)$			$u(Q) = 1.575 \times 10^{-22}$
		859.53 15	9.4 9	28.27	(5/2-)	[E1]	0.00548 8	α (K)=0.00444 6; α (L)=0.000784 11; α (M)=0.0001878 26 α (N)=5.10×10 ⁻⁵ 7; α (O)=1.276×10 ⁻⁵ 18; α (P)=2.399×10 ⁻⁶ 34; α (O)=1.446×10 ⁻⁷ 20
		868.8 <i>4</i> 887.14 [@] &	2.2 6	19.209	7/2+ 5/2+			
920.97	$(9/2^+, 11/2^+)$	357.90 20	12 3	563.04	$(13/2^+)$			
		445.34 10	58 9	475.531	11/2+	[M1]	0.442 6	α (N)=0.00464 6; α (O)=0.001167 16; α (P)=0.0002231 31; α (Q)=1.414×10 ⁻⁵ 20
		525.08 15	52 6	395.887	9/2+	[M1]	0.283 4	$\alpha(\mathbf{K})=0.349 \ 5; \ \alpha(\mathbf{L})=0.0697 \ 10; \ \alpha(\mathbf{M})=0.01696 \ 24$ $\alpha(\mathbf{K})=0.2237 \ 31; \ \alpha(\mathbf{L})=0.0445 \ 6; \ \alpha(\mathbf{M})=0.01082 \ 15$ $\alpha(\mathbf{N})=0.00296 \ 4; \ \alpha(\mathbf{O})=0.000744 \ 10; \ \alpha(\mathbf{P})=0.0001423 \ 20;$ $\alpha(\mathbf{O})=9.02\times10^{-6} \ 13$
		593.7 6	63	327.421	$7/2^{+}$			
		730.40 20	36 6	190.74	(11/2 ⁻)	[E1]	0.00732 10	$\begin{aligned} &\alpha(\mathbf{K}) = 0.00592 \ 8; \ \alpha(\mathbf{L}) = 0.001061 \ 15; \ \alpha(\mathbf{M}) = 0.000255 \ 4 \\ &\alpha(\mathbf{N}) = 6.92 \times 10^{-5} \ 10; \ \alpha(\mathbf{O}) = 1.728 \times 10^{-5} \ 24; \ \alpha(\mathbf{P}) = 3.23 \times 10^{-6} \ 5; \\ &\alpha(\mathbf{Q}) = 1.909 \times 10^{-7} \ 27 \end{aligned}$
		786.54 <i>15</i> 796.37 <i>17</i>	71 <i>10</i> 48 <i>13</i>	134.48 124.65	(13/2 ⁺) (9/2 ⁻)	[E1]	0.00627 9	$\begin{aligned} &\alpha(\text{K}) = 0.00508 \ 7; \ \alpha(\text{L}) = 0.000903 \ 13; \ \alpha(\text{M}) = 0.0002164 \ 30 \\ &\alpha(\text{N}) = 5.88 \times 10^{-5} \ 8; \ \alpha(\text{O}) = 1.470 \times 10^{-5} \ 21; \ \alpha(\text{P}) = 2.76 \times 10^{-6} \ 4; \\ &\alpha(\text{Q}) = 1.645 \times 10^{-7} \ 23 \end{aligned}$
		833.14 [@] 20 874.16 20 901.9 8	≤ 100 26 6 10 5	87.66 47.083 19.209	(11/2 ⁺) (9/2 ⁺) 7/2 ⁺			
957.420	(9/2+)	481.9 10	0.5 25	475.531	$11/2^+$	[M1]	0.357 5	$\alpha(K)=0.282$ 4; $\alpha(L)=0.0562$ 8; $\alpha(M)=0.01367$ 21

4

 $^{245}_{95}\mathrm{Am}_{150}$ -4

From ENSDF

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					Adopted	Levels, Gar	nmas (contin	ued)		
					<u> </u>	(²⁴⁵ Am) (c	ontinued)			
i(level)	\mathbf{J}_i^π	E_{γ}^{\dagger}	I_{γ}^{\dagger}	\mathbf{E}_{f}	\mathbf{J}_{f}^{π}	Mult. ^{†‡}	α #	Comments		
					<u> </u>			α (N)=0.00373 6; α (O)=0.000940 14; α (P)=0.0001798 27; α (Q)=1.140×10 ⁻⁵ 17		
957.420	$(9/2^+)$	560.134 ^{@&} 49		395.887	$9/2^{+}$			Poor fit, calculated final level=397.29 keV 6.		
		630.102 [@] 14	100 13	327.421	7/2+	M1	0.1730 24	α (K)=0.1370 <i>19</i> ; α (L)=0.0271 <i>4</i> ; α (M)=0.00659 <i>9</i> α (N)=0.001801 <i>25</i> ; α (O)=0.000453 <i>6</i> ; α (P)=8.67×10 ⁻⁵ <i>12</i> ; α (O)=5.50×10 ⁻⁶ <i>8</i>		
		766.59 15	13.1 19	190.74	(11/2 ⁻)	[E1]	0.00671 9	$\alpha(K)=0.00543 \ 8; \ \alpha(L)=0.000969 \ 14; \ \alpha(M)=0.0002324 \ 33 \ \alpha(N)=6.31\times10^{-5} \ 9; \ \alpha(O)=1.578\times10^{-5} \ 22; \ \alpha(P)=2.96\times10^{-6} \ 4; \ \alpha(O)=1.756\times10^{-7} \ 25$		
		824 ^{&}	<1	134.48	$(13/2^+)$					
		833.14 [@] 20	<19	124.65	$(9/2^{-})$					
		870.5 5	2.5 13	87.66	$(11/2^+)$					
		887.14 [@] 15	26 3	70.40	$(7/2^{-})$					
		910.46 7	51 5	47.083	$(9/2^+)$					
		938.4 2	38 6	19.209	7/2+					
007 50	$(7/2^{+}, 0/2^{+})$	957.59 15	36 4	0.0	$5/2^+$					
987.52	$(1/2^{+},9/2^{+})$	511.5 <i>10</i> 501.6 3	2.0 13	4/5.531	$\frac{11}{2}$					
		660 082 <i>4</i> 2	12.8 20 64 9	393.007	9/2 7/2+					
		917.0 5	6.4 26	70.40	$(7/2^{-})$					
		941.0 10	19 <i>13</i>	47.083	$(9/2^+)$					
		968.5 7	2.6 13	19.209	$7/2^{+}$					
		987.60 10	100 10	0.0	5/2+					
025.971	$(7/2^+, 9/2^-)$	549.2 6	94	475.531	11/2+					
		630.102 ^w <i>2</i> 14	22.0	395.887	9/2+			Poor fit, calculated final level= 397.29 keV 6.		
		696.8 4	22.9	327.421	$1/2^{+}$					
		999.5 10 953 2	94 4322	124.03	(9/2) $(7/2^{-})$					
		0.052	100 43	17 083	$(1/2^{+})$			Poor fit calculated final level-48 77 keV 20		
		996.0.3	53 9	28.27	$(5/2^{-})$			1 001 III, calculated IIIai level=48.77 KeV 20.		
		1005.1 3	70 26	19.209	$7/2^+$					
065.23		669.28 10	33 5	395.887	9/2+					
		737.96 20	21 5	327.421	7/2+					
		930.3 6	4.9 25	134.48	$(13/2^+)$					
		977.2 ^{@&}		87.66	$(11/2^+)$					
111.00		1018.33 20	100 13	47.083	$(9/2^+)$					
111.22		1023.32 20	100 19	8/.66	$(11/2^{+})$ $(7/2^{-})$					
		1040.7.17	1.20	70.40	(1/2)					

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L

Adopted Levels, Gammas (continued)

γ (²⁴⁵Am) (continued)

E_i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\dagger}	E_f	J_f^π
1111.22		1111.9 5	10.0 13	0.0	5/2+
1185.58		1051.3 8	10 3	134.48	$(13/2^+)$
		1097.9 7	33 10	87.66	$(11/2^+)$
		1138.5 5	83 <i>13</i>	47.083	$(9/2^+)$
		1166.3 5	100 13	19.209	7/2+

[†] From ²⁴⁵Pu β⁻ decay.
[‡] From conversion electron data in ²⁴⁵Pu β- decay.
[#] Additional information 1.
[@] Multiply placed.
[&] Placement of transition in the level scheme is uncertain.



²⁴⁵₉₅Am₁₅₀





 $^{245}_{95}\mathrm{Am}_{150}$

2.05 h *I*

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Adopted Levels, Gammas

					Band(D): 77	//2[633] band
					(13/2+)	563.04
					<u>11/2</u> +	475.531
					<u>9/2</u> +	395.887
			Band(C): <i>π3/</i> 2	2[521] band	7/2+	327.421
			(9/2-)	292.7		
			(7/2-)	231.7		
	Band(B): <i>π5/2</i>	2[523] band				
	(11/2 ⁻)	190.74	(5/2-)	187.0		
Band(A): π5/2[642] band			(3/2 ⁻)	154.5		
(13/2+) 134.48	(9/2-)	124.65				
(11/2 ⁺) 87.66	(7/2-)	70.40				
(9/2 ⁺) 47.083	(5/2 ⁻)	28.27				
7/2+ 19.209 5/2+ 0.0		20.21				

²⁴⁵₉₅Am₁₅₀