



1 Decay Scheme

Cm-243 decays by alpha emission mainly (99,71%) to excited levels and to the ground state of Pu-239. It exists a small electron capture branch to the Am-243 ground state level.

Le curium 243 se désintègre par émission alpha vers des niveaux excités et le niveau fondamental de plutonium 239 et par capture électronique, avec une faible intensité, vers le niveau fondamental de l'américium 243.

2 Nuclear Data

$T_{1/2}({}^{243}\text{Cm})$: 28,9	(4)	a
$T_{1/2}({}^{243}\text{Am})$: 7367	(23)	a
$T_{1/2}({}^{239}\text{Pu})$: 24100	(11)	a
$Q^\alpha({}^{243}\text{Cm})$: 6168,8	(10)	keV
$Q^+({}^{243}\text{Cm})$: 7,5	(17)	keV

2.1 α Transitions

	Energy keV	Probability × 100	F
$\alpha_{0,27}$	5319 (15)	0,00039	137
$\alpha_{0,26}$	5356 (3)	0,0015	60,6
$\alpha_{0,25}$	5406 (3)	0,001	184
$\alpha_{0,24}$	5413 (3)	0,003	67,7
$\alpha_{0,23}$	5423 (3)	0,003	77,9
$\alpha_{0,22}$	5612,6 (11)	0,002	1538
$\alpha_{0,21}$	5626 (3)	0,006	610
$\alpha_{0,20}$	5631 (3)	0,002	1955
$\alpha_{0,19}$	5663,2 (10)	0,007	854
$\alpha_{0,18}$	5670 (3)	0,007	930
$\alpha_{0,17}$	5676,7 (10)	0,009	792
$\alpha_{0,16}$	5682 (3)	0,02	381
$\alpha_{0,15}$	5688 (3)	0,01	823

	Energy keV	Probability × 100	F
$\alpha_{0,14}$	5699,0 (11)	≤ 0,01	951
$\alpha_{0,13}$	5707 (3)	0,03	351
$\alpha_{0,12}$	5718 (5)	0,06	202
$\alpha_{0,11}$	5735 (3)	0,14	108
$\alpha_{0,10}$	5742 (3)	0,03	549
$\alpha_{0,9}$	5777,2 (10)	0,2	129
$\alpha_{0,8}$	5781,4 (10)	1,6 (1)	17
$\alpha_{0,7}$	5838,7 (10)	11,3 (2)	4,94
$\alpha_{0,6}$	5883,3 (10)	73,4 (4)	1,32
$\alpha_{0,5}$	5976,0 (14)	0,7	427
$\alpha_{0,4}$	6005 (1)	0,1	4230
$\alpha_{0,3}$	6093,1 (10)	5,7 (2)	209
$\alpha_{0,2}$	6111,5 (10)	1,05 (12)	1410
$\alpha_{0,1}$	6160,9 (10)	4,4 (2)	593
$\alpha_{0,0}$	6168,8 (10)	1,3 (2)	2210

2.2 Electron Capture Transitions

	Energy keV	Probability × 100	lg <i>ft</i>
$\epsilon_{0,0}$	7,5	0,29 (3)	7,3

2.3 Gamma Transitions and Internal Conversion Coefficients

	Energy keV	$P_{\gamma+ce}$ × 100	Multipolarity	α_K	α_L	α_M	α_T
$\gamma_{9,8}(\text{Pu})$	4,16 (2)		E1				
$\gamma_{1,0}(\text{Pu})$	7,860 (3)	85,5	M1+E2			4200 (300)	5700 (400)
$\gamma_{3,2}(\text{Pu})$	18,430 (4)	0,8	(M1+E2)			6000 (6000)	8000 (6200)
$\gamma_{7,6}(\text{Pu})$	44,663 (5)	12,7 (23)	M1+E2		72 (9)	18 (3)	96 (13)
$\gamma_{2,1}(\text{Pu})$	49,412 (4)	25,4	M1+E2		92 (6)	24,8 (17)	126 (8)
$\gamma_{2,0}(\text{Pu})$	57,273 (4)	13,38	E2		161,1 (23)	45,0 (7)	222 (4)
$\gamma_{8,7}(\text{Pu})$	57,30 (2)	2,368	[M1]		21,5 (3)	5,24 (8)	28,6 (4)
$\gamma_{9,7}(\text{Pu})$	61,460 (2)	0,0222 (19)	E1		0,354 (5)	0,0881 (13)	0,473 (7)
$\gamma_{3,1}(\text{Pu})$	67,841 (7)	20 (5)	E2		71,5 (10)	20,0 (3)	98,5 (14)
$\gamma_{4,3}(\text{Pu})$	88,06 (3)	0,024	M1+E2		9,07 (13)	2,36 (4)	12,26 (18)
$\gamma_{8,6}(\text{Pu})$	101,96 (2)	0,123	E2		10,46 (15)	2,93 (5)	14,42 (21)
$\gamma_{9,6}(\text{Pu})$	106,125 (2)	0,373 (34)	E1(+M2)		0,19 (3)	0,050 (8)	0,26 (4)
$\gamma_{4,2}(\text{Pu})$	106,47 (4)	0,192	E2		8,56 (12)	2,40 (4)	11,80 (17)
$\gamma_{5,3}(\text{Pu})$	117,1 (10)	0,7 (0)	[E2]		5,52 (24)	1,54 (7)	7,6 (4)
$\gamma_{7,4}(\text{Pu})$	166,39 (6)	0,12 (5)	M1	4,91 (7)	0,984 (14)	0,239 (4)	6,22 (9)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_K	α_L	α_M	α_T
$\gamma_{6,3}$ (Pu)	209,753 (2)	13,95 (45)	M1+E2	2,56 (4)	0,511 (8)	0,1241 (18)	3,24 (5)
$\gamma_{6,2}$ (Pu)	228,183 (2)	37,7 (11)	M1+E2	2,02 (3)	0,403 (6)	0,0979 (14)	2,56 (4)
$\gamma_{7,3}$ (Pu)	254,40 (3)	0,314 (29)	M1+E2	1,457 (21)	0,294 (5)	0,0716 (10)	1,85 (3)
$\gamma_{7,2}$ (Pu)	272,87 (9)	0,201 (25)	M1+E2	1,198 (18)	0,241 (4)	0,0588 (9)	1,518 (22)
$\gamma_{6,1}$ (Pu)	277,599 (2)	34,3 (10)	M1+E2	1,142 (16)	0,230 (4)	0,0560 (8)	1,448 (21)
$\gamma_{6,0}$ (Pu)	285,460 (2)	0,910 (25)	E2	0,0843 (12)	0,1190 (17)	0,0326 (5)	0,247 (4)
$\gamma_{8,3}$ (Pu)	311,7 (2)	0,0350 (42)	M1+E2	0,84 (3)	0,168 (4)	0,0408 (8)	1,06 (3)
$\gamma_{9,3}$ (Pu)	315,880 (3)	0,0187 (21)	E1(+M2)	0,0294 (6)	0,00583 (16)	0,00141 (4)	0,0372 (9)
$\gamma_{7,1}$ (Pu)	322,3 (2)	0,0082 (12)	[E2]	0,0679 (10)	0,0745 (11)	0,0203 (3)	0,1699 (24)
$\gamma_{9,2}$ (Pu)	334,310 (3)	0,0248 (21)	E1(+M2)	0,0261 (5)	0,00511 (10)	0,001238 (24)	0,0329 (6)
$\gamma_{22,4}$ (Pu)	392,4 (5)		E1+M2				
$\gamma_{19,3}$ (Pu)	430,0 (3)		E1+M2				
$\gamma_{17,2}$ (Pu)	434,7 (5)		E1+M2				
$\gamma_{19,2}$ (Pu)	447,6 (5)						
$\gamma_{14,1}$ (Pu)	461,9 (5)		E1+M2				
$\gamma_{14,0}$ (Pu)	469,8 (5)		E1				
$\gamma_{17,1}$ (Pu)	484,3 (5)						
$\gamma_{17,0}$ (Pu)	492,3 (5)		E1+M2				
$\gamma_{19,1}$ (Pu)	497,8 (3)		E1+M2				
$\gamma_{22,2}$ (Pu)	499		E1+M2				
$\gamma_{(-1,1)}$ (Pu)	640						
$\gamma_{(-1,2)}$ (Pu)	680						
$\gamma_{(-1,3)}$ (Pu)	720						
$\gamma_{(-1,4)}$ (Pu)	740						
$\gamma_{(-1,5)}$ (Pu)	760						

3 Atomic Data

3.1 Pu

ω_K	:	0,971	(4)
$\bar{\omega}_L$:	0,521	(20)
n_{KL}	:	0,790	(5)

3.1.1 X Radiations

	Energy keV	Relative probability
X_K		
$K\alpha_2$	99,525	63,17
$K\alpha_1$	103,734	100
$K\beta_3$	116,244	}
$K\beta_1$	117,228	}
$K\beta_5''$	117,918	}
		36,7
$K\beta_2$	120,54	}
$K\beta_4$	120,969	}
$KO_{2,3}$	121,543	}
X_L		
$L\ell$	12,1246	
$L\alpha$	14,0834 – 14,2791	
$L\eta$	16,334	
$L\beta$	16,4987 – 18,5427	
$L\gamma$	20,7081 – 21,9844	

3.1.2 Auger Electrons

	Energy keV	Relative probability
Auger K		
KLL	75,263 – 85,357	100
KLX	92,607 – 103,729	60,6
KXY	109,93 – 121,78	9,18
Auger L	6,19 – 22,99	

4 α Emissions

	Energy keV	Probability $\times 100$
$\alpha_{0,27}$	5231 (15)	0,00039
$\alpha_{0,26}$	5268 (3)	0,0015
$\alpha_{0,25}$	5317 (3)	0,001
$\alpha_{0,24}$	5324 (3)	0,003
$\alpha_{0,23}$	5333 (3)	0,003
$\alpha_{0,22}$	5520,1 (11)	0,002
$\alpha_{0,21}$	5533 (3)	0,006
$\alpha_{0,20}$	5538 (3)	0,002
$\alpha_{0,19}$	5569,9 (10)	0,007
$\alpha_{0,18}$	5576 (3)	0,007
$\alpha_{0,17}$	5583,2 (10)	0,009
$\alpha_{0,16}$	5588 (3)	0,02
$\alpha_{0,15}$	5594 (3)	0,01
$\alpha_{0,14}$	5605,1 (11)	$\leq 0,01$
$\alpha_{0,13}$	5613 (3)	0,03
$\alpha_{0,12}$	5624 (5)	0,06
$\alpha_{0,11}$	5640 (3)	0,14
$\alpha_{0,10}$	5647 (3)	0,03
$\alpha_{0,9}$	5682 (1)	0,2
$\alpha_{0,8}$	5686,1 (10)	1,6 (1)
$\alpha_{0,7}$	5742,5 (10)	11,3 (2)
$\alpha_{0,6}$	5786,4 (10)	73,4 (4)
$\alpha_{0,5}$	5877,6 (14)	0,7
$\alpha_{0,4}$	5906,1 (10)	0,1
$\alpha_{0,3}$	5992,7 (10)	5,7 (2)
$\alpha_{0,2}$	6010,8 (10)	1,05 (12)
$\alpha_{0,1}$	6059,4 (10)	4,4 (2)
$\alpha_{0,0}$	6067,2 (10)	1,3 (2)

5 Electron Emissions

		Energy keV	Electrons per 100 disint.
e _{AL}	(Pu)	6,19 - 22,99	49,3 (15)
e _{AK}	(Pu)		1,34 (19)
	KLL	75,263 - 85,357	}
	KLX	92,607 - 103,729	}
	KXY	109,93 - 121,78	}
ec _{1,0} M	(Pu)	1,93 - 4,09	63,0 (45)
ec _{1,0} N	(Pu)	6,30 - 7,44	17,4 (12)
ec _{3,2} M	(Pu)	12,50 - 14,66	0,6 (6)
ec _{3,2} N	(Pu)	16,87 - 18,01	0,16 (16)
ec _{7,6} L	(Pu)	21,559 - 26,606	9,4 (16)
ec _{2,1} L	(Pu)	26,308 - 31,355	18,4 (12)
ec _{2,0} L	(Pu)	34,169 - 39,216	9,67 (14)
ec _{8,7} L	(Pu)	34,2 - 39,2	1,720 (24)
ec _{7,6} M	(Pu)	38,730 - 40,888	2,36 (49)
ec _{7,6} N	(Pu)	43,104 - 44,239	0,66 (12)
ec _{2,1} M	(Pu)	43,479 - 45,637	4,96 (34)
ec _{3,1} L	(Pu)	44,737 - 49,784	14,3 (36)
ec _{2,1} N	(Pu)	47,853 - 48,988	1,36 (10)
ec _{2,0} M	(Pu)	51,340 - 53,498	2,700 (42)
ec _{8,7} M	(Pu)	51,4 - 53,5	0,419 (6)
ec _{8,7} N	(Pu)	55,7 - 56,9	0,1142 (16)
ec _{2,0} N	(Pu)	55,714 - 56,849	0,742 (11)
ec _{3,1} M	(Pu)	61,908 - 64,066	4 (1)
ec _{3,1} N	(Pu)	66,282 - 67,417	1,10 (28)
ec _{4,2} L	(Pu)	83,37 - 88,41	0,1284 (18)
ec _{6,3} K	(Pu)	87,962 (2)	8,42 (29)
ec _{5,3} L	(Pu)	94 - 99	0,442 (19)
ec _{6,2} K	(Pu)	106,392 (2)	21,4 (7)
ec _{5,3} M	(Pu)	111,2 - 113,3	0,123 (6)
ec _{7,3} K	(Pu)	132,61 (3)	0,160 (15)
ec _{6,1} K	(Pu)	155,808 (2)	16,0 (5)
ec _{6,3} L	(Pu)	186,649 - 191,696	1,68 (6)
ec _{6,3} M	(Pu)	203,820 - 205,978	0,408 (14)
ec _{6,2} L	(Pu)	205,079 - 210,126	4,27 (14)
ec _{6,3} N	(Pu)	208,194 - 209,329	0,1112 (38)
ec _{6,2} M	(Pu)	222,250 - 224,408	1,038 (33)
ec _{6,2} N	(Pu)	226,624 - 227,759	0,282 (9)
ec _{6,1} L	(Pu)	254,495 - 259,542	3,22 (11)
ec _{6,1} M	(Pu)	271,666 - 273,824	0,784 (25)
ec _{6,1} N	(Pu)	276,040 - 277,175	0,213 (7)

6 Photon Emissions

6.1 X-Ray Emissions

		Energy keV	Photons per 100 disint.	
XL	(Pu)	12,1246 — 21,9844	52,1 (16)	
XK α_2	(Pu)	99,525	13,34 (28)	} K α
XK α_1	(Pu)	103,734	21,1 (5)	}
XK β_3	(Pu)	116,244	}	
XK β_1	(Pu)	117,228	}	K' β_1
XK β_5''	(Pu)	117,918	}	
XK β_2	(Pu)	120,54	}	
XK β_4	(Pu)	120,969	}	K' β_2
XKO $_{2,3}$	(Pu)	121,543	}	

6.2 Gamma Emissions

	Energy keV	Photons per 100 disint.
$\gamma_{1,0}$ (Pu)	7,861 (2)	0,015
$\gamma_{3,2}$ (Pu)	18,430 (4)	0,0001
$\gamma_{7,6}$ (Pu)	44,663 (5)	0,131 (16)
$\gamma_{2,1}$ (Pu)	49,414 (2)	0,2
$\gamma_{2,0}$ (Pu)	57,273 (4)	0,06
$\gamma_{8,7}$ (Pu)	57,30 (2)	0,08
$\gamma_{9,7}$ (Pu)	61,460 (2)	0,0151 (13)
$\gamma_{3,1}$ (Pu)	67,841 (7)	0,20 (5)
$\gamma_{4,3}$ (Pu)	88,06 (3)	0,0018
$\gamma_{8,6}$ (Pu)	101,96 (2)	0,008
$\gamma_{9,6}$ (Pu)	106,125 (2)	0,296 (25)
$\gamma_{4,2}$ (Pu)	106,47 (4)	0,015
$\gamma_{5,3}$ (Pu)	117,1 (10)	0,08
$\gamma_{7,4}$ (Pu)	166,39 (6)	0,016 (7)
$\gamma_{6,3}$ (Pu)	209,753 (2)	3,29 (10)
$\gamma_{6,2}$ (Pu)	228,183 (2)	10,6 (3)
$\gamma_{7,3}$ (Pu)	254,40 (3)	0,11 (1)
$\gamma_{7,2}$ (Pu)	272,87 (9)	0,08 (1)
$\gamma_{6,1}$ (Pu)	277,599 (2)	14,0 (4)
$\gamma_{6,0}$ (Pu)	285,460 (2)	0,73 (2)
$\gamma_{8,3}$ (Pu)	311,7 (2)	0,017 (2)
$\gamma_{9,3}$ (Pu)	315,880 (3)	0,018 (2)
$\gamma_{7,1}$ (Pu)	322,3 (2)	0,007 (1)
$\gamma_{9,2}$ (Pu)	334,310 (3)	0,024 (2)

7 Main Production Modes

Am – 241(n,γ)Am – 242

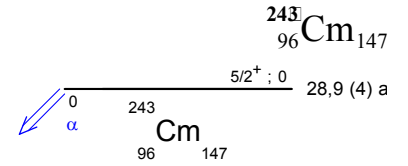
Am – 242(β⁻)Cm – 242

Cm – 242(n,γ)Cm – 243

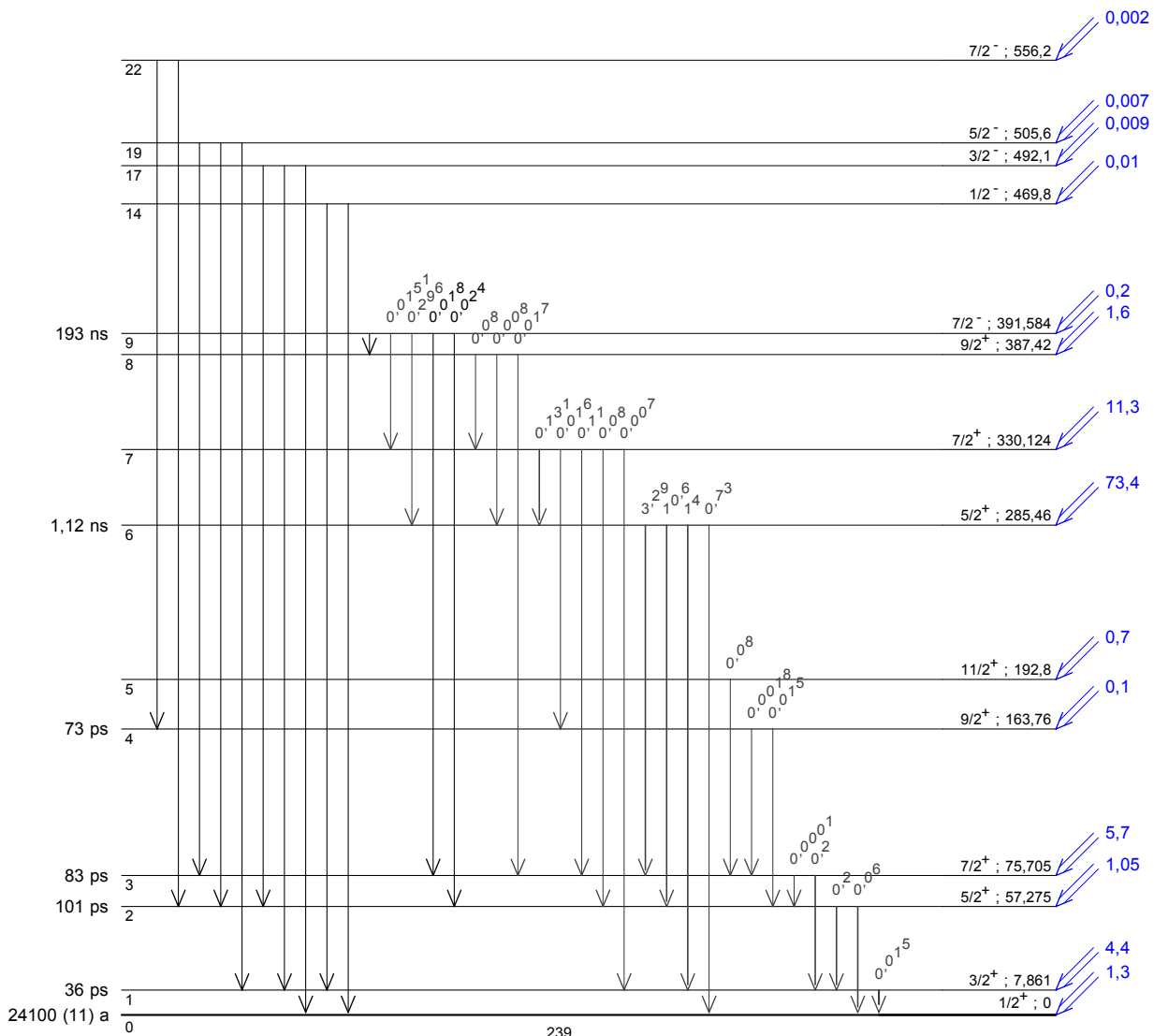
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(Alpha-transition probabilities)



γ Emission intensities per 100 disintegrations



$^{239}_{94}\text{Pu}_{145}$

$Q^\alpha = 6168,8 \text{ keV}$

$\% \alpha = 99,71$

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