

1 Half-life, Q-value and Decay mode

$T_{1/2}$:	162.86	(8)	d
Q_α	:	6215.56	(8)	keV
α	:	100		%
SF	:	6.36		$\times 10^{-6}$ %

2 α Emissions

	Energy keV	Probability $\times 100$
$\alpha_{0,15}$	4869.43 (23)	0.00000052 (14)
$\alpha_{0,14}$	4904.44 (23)	0.00000055 (15)
$\alpha_{0,13}$	5005.64 (19)	0.00000031 (10)
$\alpha_{0,12}$	5101.21 (10)	0.00000037 (10)
$\alpha_{0,11}$	5111.1 (3)	≤ 0.0000002
$\alpha_{0,10}$	5146.07 (12)	0.00000017 (5)
$\alpha_{0,9}$	5165.95 (16)	0.00000113 (21)
$\alpha_{0,8}$	5186.95 (12)	0.00000035 (7)
$\alpha_{0,7}$	5366.22 (15)	≤ 0.00000022
$\alpha_{0,6}$	5462.47 (14)	0.00000013 (3)
$\alpha_{0,5}$	5517.75 (11)	0.00025 (5)
$\alpha_{0,4}$	5607.76 (16)	0.00002
$\alpha_{0,3}$	5816.39 (11)	0.0046 (5)
$\alpha_{0,2}$	5969.24 (9)	0.034 (2)
$\alpha_{0,1}$	6069.37 (9)	25.94 (7)
$\alpha_{0,0}$	6112.72 (8)	74.06 (7)

3 Electron Emissions

		Energy keV	Electrons per 100 disint.
eAL	(Pu)	6.19 - 22.99	8.99 (21)
eAK	(Pu)		0.0000082 (15)
	KLL	75.2 - 85.3	}
	KLX	92.6 - 103.6	}
	KXY	109.8 - 121.5	}
ec _{1,0} L	(Pu)	20.98 - 26.02	18.8 (6)
ec _{1,0} M	(Pu)	38.15 - 40.31	5.25 (15)
ec _{2,1} L	(Pu)	78.82 - 83.86	0.0263 (16)

4 Photon Emissions

4.1 X-Ray Emissions

		Energy keV	Photons per 100 disint.	
XL	(Pu)	12.12 — 23.07	9.92 (23)	
XK α_2	(Pu)	99.525	0.000082 (9)	} K α
XK α_1	(Pu)	103.734	0.000130 (15)	}
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	}	}

4.2 Gamma Transitions and Emissions

	Energy keV	P $_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P $_{\gamma}$ $\times 100$
$\gamma_{1,0}$ (Pu)	44.08 (3)	26.0 (8)	E2	787 (16)	0.0330 (7)
$\gamma_{2,1}$ (Pu)	101.92 (4)	0.0388 (22)	E2	14.45 (21)	0.00251 (14)
$\gamma_{3,2}$ (Pu)	157.42 (9)	0.0046 (5)	[E2]	2.19 (4)	0.00145 (16)
$\gamma_{4,3}$ (Pu)	210.20 (14)	0.00002052	E2	0.710 (14)	0.000012
$\gamma_{8,5}$ (Pu)	336.36 (15)	0.00000072 (31)	[E1]	0.0323 (6)	0.0000007 (3)
$\gamma_{9,5}$ (Pu)	357.64 (7)	0.000000055 (11)	M1+E2	0.214 (15)	0.000000045 (9)
$\gamma_{7,3}$ (Pu)	459.8 (2)	0.00000006 (3)			0.00000006 (3)
$\gamma_{6,2}$ (Pu)	515.25 (19)	0.0000046 (12)	E1+M2	0.022 (3)	0.0000045 (12)
$\gamma_{5,1}$ (Pu)	561.02 (10)	0.000152 (40)	E1	0.01153 (23)	0.00015 (4)
$\gamma_{5,0}$ (Pu)	605.04 (10)	0.000106 (30)	E1	0.00999 (20)	0.000105 (30)
$\gamma_{6,1}$ (Pu)	617.20 (12)	0.0000080 (21)	E1+M2	0.0120 (12)	0.0000079 (21)
$\gamma_{7,2}$ (Pu)	617.22 (13)	0.00000016			0.00000016
$\gamma_{10,2}$ (Pu)	837.01 (15)	0.00000019 (6)	[E2]	0.0174 (3)	0.00000019 (6)
$\gamma_{12,2}$ (Pu)	882.63 (3)	0.000000068 (15)	(E2)	0.0157 (3)	0.000000067 (15)
$\gamma_{8,1}$ (Pu)	897.33 (10)	0.000022 (6)	(E2)	0.0152 (3)	0.000022 (6)
$\gamma_{9,1}$ (Pu)	918.7 (2)	0.00000054 (15)	E1	0.00469 (9)	0.00000054 (15)
$\gamma_{10,1}$ (Pu)	938.91 (10)	0.00000097 (33)	E0+E2	4.4 (4)	0.00000018 (6)
$\gamma_{9,0}$ (Pu)	962.8 (2)	0.00000053 (15)	E1	0.00432 (8)	0.00000053 (15)
$\gamma_{11,1}$ (Pu)	974.5 (3)	0.0000002			0.0000002
$\gamma_{13,2}$ (Pu)	979.8 (2)	0.00000026 (8)			0.00000026 (8)
$\gamma_{10,0}$ (Pu)	983.0 (3)	0.00000051 (18)	[E2]	0.01276 (25)	0.00000050 (18)
$\gamma_{12,1}$ (Pu)	984.5 (1)	0.0000020 (6)	M1+E2	0.01279 (26)	0.0000020 (6)
$\gamma_{12,0}$ (Pu)	1028.5 (2)	0.0000016 (5)	E2	0.01171 (23)	0.0000016 (5)
$\gamma_{13,1}$ (Pu)	1081.7 (3)	0.00000005 (2)			0.00000005 (2)
$\gamma_{15,2}$ (Pu)	1118.3 (3)	0.00000017 (9)	[E2]	0.01001 (20)	0.00000017 (9)
$\gamma_{14,1}$ (Pu)	1184.6 (3)	0.00000050 (15)	E2	0.00899 (18)	0.00000050 (15)
$\gamma_{15,1}$ (Pu)	1220.2 (3)	0.00000035 (11)	E0+E2+(M1)	0.26 (3)	0.00000028 (9)

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