

1 Half-life, Q-value and Decay mode

$T_{1/2}$:	18.11	(3)	y
Q_α	:	5901.74	(5)	keV
α	:	100		%
SF	:	1.36		$\times 10^{-4}$ %

2 α Emissions

	Energy keV	Probability $\times 100$
$\alpha_{0,9}$	4882.12 (8)	0.0000047 (11)
$\alpha_{0,8}$	4919.24 (7)	0.000050 (5)
$\alpha_{0,7}$	4958.20 (9)	0.000149 (16)
$\alpha_{0,6}$	5166.58 (7)	0.0000042 (30)
$\alpha_{0,5}$	5217.24 (7)	0.000055 (9)
$\alpha_{0,4}$	5315.3	0.00004
$\alpha_{0,3}$	5515.29 (6)	0.00352 (18)
$\alpha_{0,2}$	5665.41 (5)	0.0204 (15)
$\alpha_{0,1}$	5762.65 (5)	23.3 (4)
$\alpha_{0,0}$	5804.77 (5)	76.7 (4)

3 Electron Emissions

	Energy keV	Electrons per 100 disint.
e_{AL}	(Pu) 6.19 - 22.99	8.09 (20)
e_{AK}	(Pu)	0.0000061 (9)
	KLL 75.263 - 85.357	}
	KLX 92.607 - 103.729	}
	KXY 109.93 - 121.78	}
$ec_{1,0 L}$	(Pu) 19.720 - 24.767	16.9 (6)
$ec_{1,0 M}$	(Pu) 36.891 - 39.049	4.72 (16)
$ec_{2,1 L}$	(Pu) 75.76 - 80.80	0.0164 (11)

4 Photon Emissions

4.1 X-Ray Emissions

	Energy keV	Photons per 100 disint.
XL	(Pu) 12.125 — 21.984	8.92 (23)
XK α_2	(Pu) 99.525	0.000061 (4) } K α
XK α_1	(Pu) 103.734	0.000097 (5) }

		Energy keV	Photons per 100 disint.	
XK β_3	(Pu)	116.244	}	0.0000354 (20) K β'_1
XK β_1	(Pu)	117.228	}	
XK β'_5	(Pu)	117.918	}	
XK β_2	(Pu)	120.54	}	0.0000123 (7) K β'_2
XK β_4	(Pu)	120.969	}	
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)	42.824 (8)	23.4 (8)	E2	905 (18)	0.0258 (7)
$\gamma_{2,1}$ (Pu)	98.860 (13)	0.0239 (16)	E2	16.6 (3)	0.00136 (9)
$\gamma_{3,2}$ (Pu)	152.63 (2)	0.00355 (18)	(E2)	2.48 (5)	0.00102 (5)
$\gamma_{4,3}$ (Pu)	202.4	0.00004	(E2)	0.817 (16)	0.000022
$\gamma_{8,6}$ (Pu)	251.47 (6)	0.0000121 (24)	(E1)	0.0606 (12)	0.0000114 (23)
$\gamma_{7,5}$ (Pu)	263.37 (8)	0.000065 (9)	(E1)	0.0547 (11)	0.000062 (9)
$\gamma_{9,6}$ (Pu)	289.21 (7)	0.0000048 (48)	E2+M3	7 (7)	0.0000006 (3)
$\gamma_{8,5}$ (Pu)	302.98 (6)	0.0000198 (31)	(E1)	0.0405 (8)	0.000019 (3)
$\gamma_{9,5}$ (Pu)	340.72 (7)	0.0000018 (9)			0.0000018 (9)
$\gamma_{6,2}$ (Pu)	507.16 (5)	0.0000088 (28)	(E1)	0.01401 (29)	0.0000087 (28)
$\gamma_{5,1}$ (Pu)	554.52 (4)	0.000088 (11)	(E1)	0.01179 (24)	0.000087 (11)
$\gamma_{5,0}$ (Pu)	597.34 (4)	0.000054 (7)	(E1)	0.01024 (21)	0.000053 (7)
$\gamma_{6,1}$ (Pu)	606.03 (4)	0.0000081 (14)			0.0000081 (14)
$\gamma_{8,2}$ (Pu)	758.63 (5)	0.0000141 (19)	(E2)	0.0212 (4)	0.0000138 (19)
$\gamma_{7,1}$ (Pu)	817.89 (7)	0.000069 (9)	(E2)	0.0182 (4)	0.000068 (9)
$\gamma_{8,1}$ (Pu)	857.50 (4)	0.0000057 (8)			0.0000057 (8)
$\gamma_{7,0}$ (Pu)	860.71 (7)	0.0000082 (20)	(E0)		0.0000082 (20)
$\gamma_{9,1}$ (Pu)	895.24 (6)	0.0000019 (7)	E1+M2	0.07 (7)	0.0000018 (6)
$\gamma_{8,0}$ (Pu)	900.32 (4)	0.0000013 (6)			0.0000013 (6)
$\gamma_{9,0}$ (Pu)	938.06 (6)	0.0000004 (4)			0.0000004 (4)

5 References

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