

## 1 Half-life, Q-value and Decay mode

$T_{1/2}$	:	87.74	(3)	y
$Q_\alpha$	:	5593.20	(19)	keV
$\alpha$	:	100		%

## 2 $\alpha$ Emissions

	Energy keV	Probability $\times 100$
$\alpha_{0,14}$	4432.1 (2)	$\sim 0.0000012$
$\alpha_{0,13}$	4472.1 (2)	0.00000117 (7)
$\alpha_{0,12}$	4492.5 (2)	$\sim 0.0000002$
$\alpha_{0,11}$	4526.3 (2)	0.000000150 (16)
$\alpha_{0,10}$	4567.4 (2)	0.00000023
$\alpha_{0,9}$	4587.9 (2)	0.00000130 (5)
$\alpha_{0,8}$	4661.7 (2)	0.0000081
$\alpha_{0,7}$	4664.1 (2)	0.000000075 (22)
$\alpha_{0,6}$	4702.8 (2)	0.0001
$\alpha_{0,5}$	4726.0 (2)	0.00000821 (16)
$\alpha_{0,4}$	5010.4 (2)	0.00000680 (23)
$\alpha_{0,3}$	5208.0 (2)	0.00292 (4)
$\alpha_{0,2}$	5358.1 (2)	0.104 (3)
$\alpha_{0,1}$	5456.3 (2)	28.85 (6)
$\alpha_{0,0}$	5499.03 (20)	71.04 (6)

## 3 Electron Emissions

		Energy keV	Electrons per 100 disint.
e <sub>AL</sub>	(U)	5.9 - 21.6	10.6 (4)
e <sub>AK</sub>	(U)		0.0000110 (15)
	KLL	71.78 - 80.95	}
	KLX	88.15 - 98.43	}
	KXY	104.51 - 115.59	}
ec <sub>1,0</sub> L	(U)	21.74 - 26.33	20.6 (6)
ec <sub>1,0</sub> M	(U)	37.95 - 39.95	5.7 (12)
ec <sub>1,0</sub> N	(U)	42.057 - 43.119	1.544 (39)
ec <sub>2,1</sub> L	(U)	78.095 - 82.685	0.0718 (17)
ec <sub>2,1</sub> M	(U)	94.305 - 96.300	0.01992 (49)

## 4 Photon Emissions

### 4.1 X-Ray Emissions

		Energy keV		Photons per 100 disint.	
XL	(U)	11.619 — 20.714		10.63 (8)	
XK $\alpha_2$	(U)	94.666		0.000106 (3)	} K $\alpha$
XK $\alpha_1$	(U)	98.44		0.000169 (5)	}
XK $\beta_3$	(U)	110.421	}		
XK $\beta_1$	(U)	111.298	}	0.0000609 (22)	K $\beta'_1$
XK $\beta'_5$	(U)	111.964	}		
XK $\beta_2$	(U)	114.407	}		
XK $\beta_4$	(U)	115.012	}	0.0000208 (6)	K $\beta'_2$
XK $O_{2,3}$	(U)	115.377	}		

### 4.2 Gamma Transitions and Emissions

	Energy keV	P $_{\gamma+ce}$ $\times 100$	Multipolarity	$\alpha_T$	P $_{\gamma}$ $\times 100$
$\gamma_{8,6}(U)$	41.82 (11)	0.0000026 (14)	[E2]	863 (18)	0.000000030 (16)
$\gamma_{1,0}(U)$	43.498 (1)	28.3 (8)	E2	713 (15)	0.0397 (8)
$\gamma_{11,9}(U)$	62.70 (1)	0.000000016 (4)	E1	0.426 (9)	0.000000011 (3)
$\gamma_{2,1}(U)$	99.852 (3)	0.1060 (23)	E2	13.42 (27)	0.00735 (8)
$\gamma_{11,7}(U)$	140.15 (2)	0.000000021 (7)	M1+63%E2	5.1 (15)	0.000000035 (7)
$\gamma_{3,2}(U)$	152.719 (2)	0.00292 (4)	E2	2.14 (4)	0.000930 (7)
$\gamma_{13,8}(U)$	192.91 (7)	0.000000012 (4)	[E2]	0.856 (17)	0.0000000066 (20)
$\gamma_{4,3}(U)$	200.97 (3)	0.00000680 (23)	E2	0.734 (15)	0.00000392 (13)
$\gamma_{11,5}(U)$	203.12 (3)	0.000000021 (5)	M1+66%E2	1.5 (3)	0.000000085 (15)
$\gamma_{14,7}(U)$	235.9 (3)	0.000000010 (5)	[E1]	0.0673 (14)	0.000000009 (5)
$\gamma_{13,5}(U)$	258.227 (3)	0.000000074 (12)	(E1)	0.0548 (11)	0.000000070 (11)
$\gamma_{14,5}(U)$	299.1 (2)	0.000000046 (3)	[E1]	0.0395 (8)	0.000000044 (3)
$\gamma_{7,2}(U)$	705.9 (1)	0.000000050 (13)	[E1]	0.00698 (14)	0.000000050 (13)
$\gamma_{8,2}(U)$	708.3 (2)	0.000000050 (3)	[E2]	0.0219 (5)	0.000000049 (3)
$\gamma_{12,3}(U)$	727.8 (2)	0.000000028 (3)	(E2)	0.0207 (4)	0.000000027 (3)
$\gamma_{5,1}(U)$	742.813 (5)	0.00000513 (13)	E1	0.00636 (13)	0.00000510 (13)
$\gamma_{6,1}(U)$	766.38 (2)	0.0000223 (5)	E2	0.0187 (4)	0.0000219 (5)
$\gamma_{9,2}(U)$	783.4 (1)	0.000000022 (3)	[E2]	0.0179 (4)	0.000000022 (3)
$\gamma_{5,0}(U)$	786.27 (3)	0.00000322 (9)	E1	0.00573 (12)	0.00000320 (9)
$\gamma_{10,2}(U)$	804.4 (3)	0.00000017	E0+E2	0.57	0.00000011 (5)
$\gamma_{7,1}(U)$	805.80 (5)	0.000000056 (15)	[E1]	0.00549 (11)	0.000000056 (15)
$\gamma_{8,1}(U)$	808.2 (1)	0.0000041	E0+17%E2	4.3	0.000000767 (25)
$\gamma_{8,0}(U)$	851.7 (1)	0.00000129 (4)	[E2]	0.01513 (30)	0.00000127 (4)
$\gamma_{12,2}(U)$	880.5 (1)	$\geq 0.00000015$	(E0+E2)		$\geq 0.00000015$ (4)
$\gamma_{9,1}(U)$	883.24 (4)	0.00000073 (4)	E2	0.01409 (28)	0.00000072 (4)
$\gamma_{10,1}(U)$	904.37 (15)	0.000000062 (11)	[E2]	0.01346 (27)	0.000000061 (11)
$\gamma_{9,0}(U)$	926.72 (1)	0.000000565 (25)	(E2)	0.01284 (26)	0.000000558 (25)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	$\alpha_T$	$P_\gamma$ $\times 100$
$\gamma_{14,2}(U)$	941.94 (10)	0.000000472 (23)	[E2]	0.01244 (25)	0.000000466 (23)
$\gamma_{11,1}(U)$	946.00 (3)	0.000000092 (13)	(E1)	0.00412 (8)	0.000000092 (13)
$\gamma_{12,1}(U)$	980.3 (1)	0.000000042	(E2)	0.01152 (23)	0.000000042
$\gamma_{13,1}(U)$	1001.03 (3)	0.000000099 (4)	E2	0.01107 (22)	0.000000098 (4)
$\gamma_{14,1}(U)$	1041.7 (2)	0.00000002	(E0+E2)		0.000000197 (16)
$\gamma_{14,0}(U)$	1085.4 (2)	0.000000078 (9)	(E2)	0.00950 (19)	0.000000077 (9)

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