

1 Half-life, Q-value and Decay mode

$T_{1/2}$:	6.70	(5)	h
Q_{β^-}	:	2195	(4)	keV
β^-	:	100		%

2 β^- Transitions

	Energy keV	Probability $\times 100$	Nature	log ft
$\beta_{0,77}^-$	51 (4)	0.42 (5)		4.98
$\beta_{0,76}^-$	79 (4)	0.21 (3)		5.87
$\beta_{0,75}^-$	94 (4)	0.064 (11)		6.6
$\beta_{0,74}^-$	126 (4)	0.40 (7)		6.21
$\beta_{0,73}^-$	129 (4)	0.140 (24)		6.69
$\beta_{0,72}^-$	158 (4)	0.055 (8)		7.37
$\beta_{0,71}^-$	161 (4)	0.90 (15)		6.19
$\beta_{0,70}^-$	175 (4)	0.112 (16)		7.2
$\beta_{0,69}^-$	195 (4)	0.122 (16)		7.31
$\beta_{0,68}^-$	214 (4)	0.59 (8)		6.75
$\beta_{0,67}^-$	226 (4)	0.044 (12)		7.95
$\beta_{0,66}^-$	236 (4)	0.44 (19)		7.01
$\beta_{0,65}^-$	254 (4)	0.35 (5)		7.22
$\beta_{0,64}^-$	267 (4)	0.22 (4)		7.49
$\beta_{0,63}^-$	279 (4)	0.21 (3)		7.56
$\beta_{0,62}^-$	313 (4)	0.25 (3)		7.65
$\beta_{0,61}^-$	332 (4)	0.029 (7)		8.66
$\beta_{0,60}^-$	351 (4)	0.17 (3)		7.97
$\beta_{0,59}^-$	383 (4)	1.43 (15)		7.17
$\beta_{0,58}^-$	402 (4)	0.41 (8)		7.78
$\beta_{0,57}^-$	411 (4)	0.061 (11)		8.64
$\beta_{0,56}^-$	412 (4)	8 (3)		6.53
$\beta_{0,55}^-$	424 (4)	0.129 (17)		8.36
$\beta_{0,54}^-$	433 (4)	2.8 (4)		7.05
$\beta_{0,53}^-$	457 (4)	0.78 (19)		7.68
$\beta_{0,52}^-$	458 (4)	1.16 (14)		7.51
$\beta_{0,50}^-$	472 (4)	8.4 (9)	1st forbidden	6.7
$\beta_{0,51}^-$	472 (4)	36 (5)	Allowed	6.06
$\beta_{0,49}^-$	502 (4)	6.9 (8)	1st forbidden	6.87
$\beta_{0,48}^-$	542 (4)	0.95 (13)		7.84
$\beta_{0,47}^-$	545 (4)	0.18 (4)		8.64
$\beta_{0,46}^-$	576 (4)	0.035 (20)		9.36
$\beta_{0,45}^-$	606 (4)	<0.7		>8.1
$\beta_{0,44}^-$	613 (4)	0.05 (3)		9.3
$\beta_{0,43}^-$	642 (4)	19.6 (18)	Allowed	6.77
$\beta_{0,42}^-$	647 (4)	0.078 (20)		9.18
$\beta_{0,41}^-$	651 (4)	0.10 (9)		9.1
$\beta_{0,40}^-$	658 (4)	<0.9		>8.1
$\beta_{0,39}^-$	662 (4)	0.21 (4)		8.79

	Energy keV	Probability × 100	Nature	log <i>ft</i>
$\beta_{0,38}^-$	693 (4)	0.25 (4)		8.78
$\beta_{0,37}^-$	699 (4)	<2.7		>7.8
$\beta_{0,36}^-$	709 (4)	0.12 (3)		9.14
$\beta_{0,34}^-$	747 (4)	0.11 (3)		9.25
$\beta_{0,31}^-$	883 (4)	0.109 (18)		9.5
$\beta_{0,26}^-$	980 (4)	0.30 (12)		9.22
$\beta_{0,25}^-$	1000 (4)	<1.5		>8.5
$\beta_{0,22}^-$	1067 (4)	1.9 (10)		8.54
$\beta_{0,18}^-$	1104 (4)	0.69 (20)		9.04
$\beta_{0,16}^-$	1126 (4)	<8	1st forbidden	>8
$\beta_{0,15}^-$	1171 (4)	1.5 (13)		8.8
$\beta_{0,14}^-$	1171 (4)	<5	1st forbidden	>8.3
$\beta_{0,13}^-$	1206 (4)	<3.1	1st forbidden unique	>8.5
$\beta_{0,12}^-$	1227 (4)	<2.5	Allowed	>8.6
$\beta_{0,11}^-$	1232 (4)	<0.4		>9.4
$\beta_{0,10}^-$	1247 (4)	<0.8	Allowed	>9.2
$\beta_{0,7}^-$	1346 (4)	<0.8	1st forbidden	>9.3
$\beta_{0,2}^-$	2052 (4)	<5	Allowed	>9.2

3 Electron Emissions

		Energy keV	Electrons per 100 disint.	Energy keV
e _{AL}	(U)	5.9 - 21.6	77 (10)	
e _{AK}	(U)		1.08 (6)	
	KLL	71.776 - 80.954	}	
	KLX	88.153 - 98.429	}	
	KXY	104.51 - 115.59	}	
ec _{25,16} K	(U)	9.86 (1)	0.171 (26)	
ec _{14,13} L	(U)	12.5 - 17.1	6.1 (7)	
ec _{43,33} K	(U)	15.70 (1)	3.71 (33)	
ec _{51,45} K	(U)	19.01 (2)	0.86 (17)	
ec _{1,0} L	(U)	21.73 - 26.32	62 (16)	
ec _{16,14} L	(U)	23.69 - 28.28	5.1 (32)	
ec _{13,7} K	(U)	24.55 (2)	1.5 (11)	
ec _{49,43} K	(U)	25.31 (3)	0.054 (9)	
ec _{33,30} K	(U)	28.18 (2)	1.04 (16)	
ec _{14,13} M	(U)	28.8 - 30.7	1.69 (18)	
ec _{14,13} N	(U)	32.9 - 33.9	0.46 (5)	
ec _{15,12} L	(U)	33.20 - 37.79	0.8 (8)	
ec _{45,39} L	(U)	33.69 - 38.28	0.012 (4)	
ec _{30,22} K	(U)	34.28 (3)	0.0161 (48)	
ec _{22,16} L	(U)	36.4 - 41.0	0.34 (11)	
ec _{3,2} K	(U)	37.11 (2)	1.30 (15)	
ec _{56,51} L	(U)	37.43 - 42.02	2.2 (18)	

		Energy keV	Electrons per 100 disint.	Energy keV
ec _{1,0} M	(U)	37.94 - 39.94	17.2 (43)	
ec _{16,14} M	(U)	39.9 - 41.9	1.4 (9)	
ec _{13,9} L	(U)	40.9 - 45.5	0.51 (16)	
ec _{1,0} N	(U)	42.05 - 43.11	4.7 (12)	
ec _{33,28} K	(U)	43.88 (2)	0.086 (13)	
ec _{16,14} N	(U)	44.01 - 45.07	0.38 (25)	
ec _{25,22} L	(U)	45.49 - 50.08	1.5 (5)	
ec _{25,20} L	(U)	47.70 - 52.29	0.58 (49)	
ec _{22,11} K	(U)	49.34 (5)	0.11 (12)	
ec _{15,12} M	(U)	49.41 - 51.41	0.24 (20)	
ec _{22,16} M	(U)	52.7 - 54.6	0.095 (32)	
ec _{15,12} N	(U)	53.52 - 54.58	0.07 (6)	
ec _{56,51} M	(U)	53.64 - 55.64	0.6 (5)	
ec _{51,43} K	(U)	55.25 (2)	1.96 (27)	
ec _{22,16} N	(U)	56.8 - 57.8	0.026 (9)	
ec _{13,9} M	(U)	57.2 - 59.2	0.127 (40)	
ec _{56,51} N	(U)	57.75 - 58.81	0.16 (14)	
ec _{16,13} L	(U)	58.08 - 62.67	1.7 (6)	
ec _{14,7} K	(U)	58.95 (3)	0.32 (31)	
ec _{13,9} N	(U)	61.3 - 62.3	0.033 (10)	
ec _{25,22} M	(U)	61.7 - 63.7	0.41 (15)	
ec _{25,20} M	(U)	63.91 - 65.91	0.16 (15)	
ec _{51,41} K	(U)	64.20 (8)	0.15 (5)	
ec _{25,22} N	(U)	65.81 - 66.87	0.112 (40)	
ec _{25,20} N	(U)	68.02 - 69.08	0.043 (38)	
ec _{51,40} K	(U)	70.55 (2)	5.4 (6)	
ec _{16,13} M	(U)	74.29 - 76.29	0.48 (17)	
ec _{14,9} L	(U)	75.41 - 80.00	0.024 (9)	
ec _{2,1} L	(U)	78.10 - 82.69	31 (6)	
ec _{56,45} K	(U)	78.13 (3)	0.7 (7)	
ec _{16,13} N	(U)	78.40 - 79.46	0.131 (46)	
ec _{16,12} L	(U)	79.13 - 83.72	0.0115 (22)	
ec _{23,12} K	(U)	81.20 (5)	0.1 (1)	
ec _{22,14} L	(U)	82.01 - 86.60	1.96 (33)	
ec _{21,9} K	(U)	84.35 (5)	0.1 (1)	
ec _{16,11} L	(U)	84.92 - 89.51	0.104 (32)	
ec _{4,3} K	(U)	85.37 (3)	0.138 (20)	
ec _{13,5} K	(U)	87.52 (3)	1.0 (5)	
ec _{2,1} M	(U)	94.31 - 96.31	8.7 (16)	
ec _{22,14} M	(U)	98.22 - 100.22	0.54 (9)	
ec _{2,1} N	(U)	98.42 - 99.48	2.36 (44)	
ec _{16,11} M	(U)	101.13 - 103.13	0.025 (8)	
ec _{22,14} N	(U)	102.33 - 103.39	0.148 (25)	
ec _{25,16} L	(U)	103.70 - 108.29	2.69 (41)	
ec _{16,7} K	(U)	104.40 (8)	0.276 (47)	
ec _{43,33} L	(U)	109.5 - 114.1	0.84 (8)	
ec _{33,25} K	(U)	110.90 (3)	4.4 (16)	
ec _{51,37} K	(U)	111.65 (3)	10 (1)	

		Energy keV	Electrons per 100 disint.	Energy keV
ec51,45 L	(U)	112.85 - 117.44	0.169 (34)	
ec25,11 K	(U)	116.61 (3)	0.16 (15)	
ec13,7 L	(U)	118.39 - 122.98	0.90 (18)	
ec49,43 L	(U)	119.15 - 123.74	0.0120 (19)	
ec25,16 M	(U)	119.91 - 121.91	0.75 (11)	
ec33,30 L	(U)	122.02 - 126.61	0.49 (8)	
ec25,16 N	(U)	124.02 - 125.08	0.203 (31)	
ec58,43 K	(U)	124.6 (1)	0.042 (40)	
ec43,33 M	(U)	125.8 - 127.8	0.205 (18)	
ec30,22 L	(U)	128.12 - 132.71	0.111 (34)	
ec51,45 M	(U)	129.06 - 131.06	0.041 (8)	
ec56,40 K	(U)	129.77 (2)	1.06 (15)	
ec43,33 N	(U)	129.9 - 130.9	0.0546 (49)	
ec3,2 L	(U)	130.95 - 135.54	8.4 (10)	
ec51,45 N	(U)	133.17 - 134.23	0.0110 (22)	
ec33,24 K	(U)	133.62 (1)	0.118 (19)	
ec13,7 M	(U)	134.6 - 136.6	0.24 (6)	
ec33,28 L	(U)	137.72 - 142.31	0.0186 (28)	
ec33,30 M	(U)	138.23 - 140.23	0.129 (20)	
ec13,7 N	(U)	138.71 - 139.77	0.065 (15)	
ec68,51 K	(U)	141.6 (1)	0.036 (35)	
ec33,30 N	(U)	142.34 - 143.40	0.035 (5)	
ec22,11 L	(U)	143.18 - 147.77	0.047 (21)	
ec30,22 M	(U)	144.33 - 146.33	0.031 (9)	
ec3,2 M	(U)	147.16 - 149.16	2.33 (27)	
ec51,43 L	(U)	149.09 - 153.68	0.38 (5)	
ec3,2 N	(U)	151.27 - 152.33	0.63 (7)	
ec26,10 K	(U)	151.52 (5)	0.11 (9)	
ec14,7 L	(U)	152.79 - 157.38	0.126 (23)	
ec49,33 K	(U)	156.68 (5)	0.83 (11)	
ec51,41 L	(U)	158.0 - 162.6	0.029 (10)	
ec22,11 M	(U)	159.39 - 161.39	0.012 (6)	
ec21,8 K	(U)	159.4 (1)	0.056 (49)	
ec51,40 L	(U)	164.39 - 168.98	1.04 (11)	
ec51,43 M	(U)	165.3 - 167.3	0.092 (13)	
ec14,7 M	(U)	169 - 171	0.033 (7)	
ec51,43 N	(U)	169.41 - 170.47	0.0249 (34)	
ec56,45 L	(U)	171.97 - 176.56	0.255 (42)	
ec23,12 L	(U)	175.0 - 179.6	0.035 (11)	
ec33,22 K	(U)	178.19 (5)	0.84 (29)	
ec21,9 L	(U)	178.19 - 182.78	0.035 (11)	
ec4,3 L	(U)	179.21 - 183.80	0.38 (6)	
ec33,20 K	(U)	180.31 (8)	0.07 (6)	
ec51,40 M	(U)	180.6 - 182.6	0.253 (27)	
ec13,5 L	(U)	181.36 - 185.95	0.52 (6)	
ec51,40 N	(U)	184.71 - 185.77	0.068 (7)	
ec56,45 M	(U)	188.18 - 190.18	0.066 (11)	
ec56,45 N	(U)	192.29 - 193.35	0.0178 (30)	

		Energy keV		Electrons per 100 disint.	Energy keV
ec71,51 K	(U)	194.6	(1)	0.029	(30)
ec4,3 M	(U)	195.42	- 197.42	0.105	(15)
ec13,5 M	(U)	197.57	- 199.57	0.138	(17)
ec23,8 K	(U)	197.9	(1)	0.042	(42)
ec16,7 L	(U)	198.242	- 202.832	0.053	(9)
ec4,3 N	(U)	199.53	- 200.59	0.0285	(41)
ec37,29 L	(U)	200.07	- 204.66	0.020	(6)
ec13,5 N	(U)	201.68	- 202.74	0.0373	(46)
ec33,25 L	(U)	204.7	- 209.3	1.46	(19)
ec34,22 K	(U)	204.8	(1)	0.021	(16)
ec51,37 L	(U)	205.49	- 210.08	1.94	(20)
ec25,11 L	(U)	210.45	- 215.04	0.049	(12)
ec16,7 M	(U)	214.452	- 216.450	0.0129	(22)
ec33,18 K	(U)	214.80	(5)	0.0198	(23)
ec58,43 L	(U)	218.4	- 223.0	0.012	(6)
ec33,25 M	(U)	221	- 223	0.372	(47)
ec51,37 M	(U)	221.7	- 223.7	0.469	(49)
ec56,40 L	(U)	223.61	- 228.20	0.205	(30)
ec33,25 N	(U)	225.1	- 226.1	0.100	(13)
ec51,37 N	(U)	225.81	- 226.87	0.126	(13)
ec25,11 M	(U)	226.66	- 228.66	0.0126	(24)
ec33,24 L	(U)	227.46	- 232.05	0.0234	(38)
ec33,16 K	(U)	236.3	(1)	0.0233	(28)
ec56,40 M	(U)	239.82	- 241.82	0.050	(7)
ec46,28 K	(U)	242.3	(1)	0.010	(8)
ec56,40 N	(U)	243.93	- 244.99	0.0134	(19)
ec26,10 L	(U)	245.36	- 249.95	0.031	(10)
ec49,33 L	(U)	250.52	- 255.11	0.194	(25)
ec21,8 L	(U)	253.28	- 257.87	0.015	(5)
ec37,21 K	(U)	253.90	(5)	1.12	(14)
ec40,23 K	(U)	256.4	(1)	0.50	(6)
ec49,33 M	(U)	266.73	- 268.73	0.048	(6)
ec49,33 N	(U)	270.84	- 271.90	0.0130	(17)
ec33,22 L	(U)	272.03	- 276.62	0.33	(5)
ec33,20 L	(U)	274.15	- 278.74	0.018	(7)
ec33,15 K	(U)	282.1	(3)	0.027	(7)
ec33,22 M	(U)	288.24	- 290.24	0.085	(13)
ec23,8 L	(U)	291.7	- 296.3	0.0104	(44)
ec33,22 N	(U)	292.35	- 293.41	0.0228	(34)
ec33,16 L	(U)	330.1	- 334.7	0.0191	(23)
ec40,18 K	(U)	331.0	(1)	0.0307	(41)
ec33,11 K	(U)	343.08	(5)	0.125	(47)
ec37,21 L	(U)	347.7	- 352.3	0.216	(26)
ec40,23 L	(U)	350.242	- 354.832	0.100	(11)
ec37,15 K	(U)	356.7	(1)	0.083	(9)
ec37,21 M	(U)	364	- 366	0.052	(6)
ec71,43 K	(U)	365.4	(1)	0.040	(31)
ec40,23 M	(U)	366.452	- 368.450	0.0242	(28)

		Energy keV	Electrons per 100 disint.	Energy keV
ec37,21 N	(U)	368.1 - 369.1	0.0141 (17)	
ec45,18 K	(U)	382.4 (1)	0.0125 (24)	
ec37,13 K	(U)	391.16 (5)	0.0138 (15)	
ec40,15 K	(U)	397.8 (1)	0.0703 (11)	
ec37,12 K	(U)	412.4 (1)	0.069 (9)	
ec33,11 L	(U)	436.92 - 441.51	0.032 (7)	
ec45,15 K	(U)	449.8 (1)	0.149 (16)	
ec37,15 L	(U)	450.5 - 455.1	0.0159 (18)	
ec40,12 K	(U)	453.5 (2)	0.51 (8)	
ec37,9 K	(U)	454.1 (1)	1.30 (17)	
ec59,26 K	(U)	481.5 (1)	0.0247 (37)	
ec40,15 L	(U)	491.6 - 496.2	0.01341 (19)	
ec53,21 K	(U)	496.6 (1)	0.044 (6)	
ec37,12 L	(U)	506.23 - 510.82	0.0131 (17)	
ec49,16 K	(U)	508.8 (1)	0.028 (4)	
ec48,15 K	(U)	514.0 (1)	0.038 (6)	
ec54,22 K	(U)	518.9 (2)	0.0142 (25)	
ec50,16 K	(U)	538.3 (1)	0.046 (8)	
ec45,15 L	(U)	543.6 - 548.2	0.0283 (30)	
ec40,12 L	(U)	547.3 - 551.9	0.096 (16)	
ec37,9 L	(U)	547.9 - 552.5	0.248 (32)	
ec40,12 M	(U)	563.6 - 565.6	0.0232 (39)	
ec37,9 M	(U)	564.2 - 566.2	0.060 (8)	
ec37,9 N	(U)	568.3 - 569.3	0.0161 (21)	
ec54,16 K	(U)	577.2 (1)	0.104 (11)	
ec7,2 K	(U)	590.6 (1)	0.0130 (13)	
ec49,11 K	(U)	615.6 (2)	0.025 (19)	
ec50,13 K	(U)	617.96 (5)	0.50 (6)	
ec54,14 K	(U)	622.7 (1)	0.081 (9)	
ec5,1 K	(U)	627.482 (5)	0.0108 (11)	
ec51,12 K	(U)	639.7 (1)	0.049 (37)	
ec56,15 K	(U)	643.6 (1)	0.010 (8)	
ec54,16 L	(U)	671.0 - 675.6	0.0197 (21)	
ec51,9 K	(U)	680.8 (1)	0.0325 (38)	
ec10,2 K	(U)	688.9 (1)	0.097 (34)	
ec7,1 K	(U)	690.60 (5)	0.0112 (14)	
ec12,2 K	(U)	709.9 (2)	0.0223 (24)	
ec50,13 L	(U)	711.80 - 716.39	0.095 (11)	
ec22,3 K	(U)	716.3 (1)	0.0178 (21)	
ec54,14 L	(U)	716.5 - 721.1	0.0154 (17)	
ec50,13 M	(U)	728.01 - 730.01	0.0228 (26)	
ec51,12 L	(U)	733.5 - 738.1	0.010 (6)	
ec24,3 K	(U)	760.8 (1)	0.0269 (25)	
ec15,2 K	(U)	765.32 (4)	0.065 (8)	
ec14,2 K	(U)	765.32 (4)	0.0164 (23)	
ec9,1 K	(U)	768.06 (4)	0.101 (12)	
ec10,2 L	(U)	782.7 - 787.3	0.069 (24)	
ec25,3 K	(U)	783.46 (5)	0.0122 (15)	

		Energy keV		Electrons per 100 disint.	Energy keV
ec _{10,2} M	(U)	799	- 801	0.064 (23)	
ec _{12,1} K	(U)	809.8	(1)	0.076 (9)	
ec _{9,0} K	(U)	811.5	(1)	0.070 (12)	
ec _{13,1} K	(U)	830.79	(3)	0.045 (5)	
ec _{18,2} K	(U)	832.5	(2)	0.0150 (19)	
ec _{28,3} K	(U)	850.6	(1)	0.011 (6)	
ec _{15,2} L	(U)	859.16	- 863.75	0.0172 (22)	
ec _{9,1} L	(U)	861.90	- 866.49	0.0268 (31)	
ec _{15,1} K	(U)	865.1	(1)	0.01533 (23)	
ec _{12,1} L	(U)	903.6	- 908.2	0.0194 (22)	
ec _{9,0} L	(U)	905.3	- 909.9	0.0179 (30)	
ec _{21,1} K	(U)	968.2	(1)	0.0130 (15)	
ec _{37,2} K	(U)	1238.3	(1)	0.0164 (17)	
ec _{40,2} K	(U)	1279.3	(1)	0.0271 (28)	
$\beta_{0,77}^-$	max:	51	(4)	0.42 (5)	avg: 13.0 (11)
$\beta_{0,76}^-$	max:	79	(4)	0.21 (3)	avg: 20.4 (11)
$\beta_{0,75}^-$	max:	94	(4)	0.064 (11)	avg: 24.2 (11)
$\beta_{0,74}^-$	max:	126	(4)	0.40 (7)	avg: 33.1 (11)
$\beta_{0,73}^-$	max:	129	(4)	0.140 (24)	avg: 33.8 (11)
$\beta_{0,72}^-$	max:	158	(4)	0.055 (8)	avg: 41.9 (12)
$\beta_{0,71}^-$	max:	161	(4)	0.90 (15)	avg: 42.9 (12)
$\beta_{0,70}^-$	max:	175	(4)	0.112 (16)	avg: 46.7 (12)
$\beta_{0,69}^-$	max:	195	(4)	0.122 (16)	avg: 52.2 (12)
$\beta_{0,68}^-$	max:	214	(4)	0.59 (8)	avg: 57.8 (12)
$\beta_{0,67}^-$	max:	226	(4)	0.044 (12)	avg: 61.3 (12)
$\beta_{0,66}^-$	max:	236	(4)	0.44 (19)	avg: 64.3 (12)
$\beta_{0,65}^-$	max:	254	(4)	0.35 (5)	avg: 69.7 (12)
$\beta_{0,64}^-$	max:	267	(4)	0.22 (4)	avg: 73.5 (12)
$\beta_{0,63}^-$	max:	279	(4)	0.21 (3)	avg: 76.9 (12)
$\beta_{0,62}^-$	max:	313	(4)	0.25 (3)	avg: 87.3 (13)
$\beta_{0,61}^-$	max:	332	(4)	0.029 (7)	avg: 93.0 (13)
$\beta_{0,60}^-$	max:	351	(4)	0.17 (3)	avg: 98.9 (13)
$\beta_{0,59}^-$	max:	383	(4)	1.43 (15)	avg: 108.9 (13)
$\beta_{0,58}^-$	max:	402	(4)	0.41 (8)	avg: 114.8 (13)
$\beta_{0,57}^-$	max:	411	(4)	0.061 (11)	avg: 117.6 (13)
$\beta_{0,56}^-$	max:	412	(4)	8 (3)	avg: 118.1 (13)
$\beta_{0,55}^-$	max:	424	(4)	0.129 (17)	avg: 121.8 (13)
$\beta_{0,54}^-$	max:	433	(4)	2.8 (4)	avg: 124.7 (13)
$\beta_{0,53}^-$	max:	457	(4)	0.78 (19)	avg: 132.3 (14)
$\beta_{0,52}^-$	max:	458	(4)	1.16 (14)	avg: 132.5 (14)
$\beta_{0,50}^-$	max:	472	(4)	8.4 (9)	avg: 137.2 (13)
$\beta_{0,51}^-$	max:	472	(4)	36 (5)	avg: 137.1 (13)
$\beta_{0,49}^-$	max:	502	(4)	6.9 (8)	avg: 146.8 (14)
$\beta_{0,48}^-$	max:	542	(4)	0.95 (13)	avg: 160.1 (14)
$\beta_{0,47}^-$	max:	545	(4)	0.18 (4)	avg: 164.6 (13)
$\beta_{0,46}^-$	max:	576	(4)	0.035 (20)	avg: 171.4 (14)
$\beta_{0,45}^-$	max:	606	(4)	<0.7	avg: 181.7 (14)

		Energy keV		Electrons per 100 disint.		Energy keV
$\beta_{0,44}^-$	max:	613	(4)	0.05 (3)	avg:	184.1 (14)
$\beta_{0,43}^-$	max:	642	(4)	19.6 (18)	avg:	194.0 (14)
$\beta_{0,42}^-$	max:	647	(4)	0.078 (20)	avg:	195.6 (14)
$\beta_{0,41}^-$	max:	651	(4)	0.10 (9)	avg:	197.1 (14)
$\beta_{0,40}^-$	max:	658	(4)	<0.9	avg:	199.3 (14)
$\beta_{0,39}^-$	max:	662	(4)	0.21 (4)	avg:	200.6 (14)
$\beta_{0,38}^-$	max:	693	(4)	0.25 (4)	avg:	211.3 (14)
$\beta_{0,37}^-$	max:	699	(4)	<2.7	avg:	213.5 (14)
$\beta_{0,36}^-$	max:	709	(4)	0.12 (3)	avg:	216.9 (14)
$\beta_{0,34}^-$	max:	747	(4)	0.11 (3)	avg:	230.3 (14)
$\beta_{0,31}^-$	max:	883	(4)	0.109 (18)	avg:	278.7 (15)
$\beta_{0,26}^-$	max:	980	(4)	0.30 (12)	avg:	314.2 (15)
$\beta_{0,25}^-$	max:	1000	(4)	<1.5	avg:	312.6 (14)
$\beta_{0,22}^-$	max:	1067	(4)	1.9 (10)	avg:	346.5 (15)
$\beta_{0,18}^-$	max:	1104	(4)	0.69 (20)	avg:	360.2 (15)
$\beta_{0,16}^-$	max:	1126	(4)	<8	avg:	368.3 (15)
$\beta_{0,15}^-$	max:	1171	(4)	1.5 (13)	avg:	385.4 (16)
$\beta_{0,14}^-$	max:	1171.2	(40)	<5	avg:	385.4 (16)
$\beta_{0,13}^-$	max:	1206	(4)	<3.1	avg:	398.5 (16)
$\beta_{0,12}^-$	max:	1227	(4)	<2.5	avg:	406.4 (16)
$\beta_{0,11}^-$	max:	1232	(4)	<0.4	avg:	408.7 (16)
$\beta_{0,10}^-$	max:	1247	(4)	<0.8	avg:	414.4 (16)
$\beta_{0,7}^-$	max:	1346	(4)	<0.8	avg:	452.1 (16)
$\beta_{0,2}^-$	max:	2052	(4)	<5	avg:	732.2 (17)

4 Photon Emissions

4.1 X-Ray Emissions

		Energy keV		Photons per 100 disint.	
XL	(U)	11.6185 — 20.7141		77 (10)	
XK α_2	(U)	94.666		10.5 (6)	} K α
XK α_1	(U)	98.44		16.8 (9)	}
XK β_3	(U)	110.421	}		
XK β_1	(U)	111.298	}	6.1 (4)	K β'_1
XK β''_5	(U)	111.964	}		
XK β_2	(U)	114.407	}		
XK β_4	(U)	115.012	}	2.0 (1)	K β'_2
XKO $_{2,3}$	(U)	115.377	}		

4.2 Gamma Transitions and Emissions

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{14,13}(U)$	34.30 (4)	8.4 (9)	(E2)	2270 (40)	0.0037 (4)
$\gamma_{1,0}(U)$	43.49 (2)	86 (23)	E2	713 (11)	0.12 (3)
$\gamma_{16,14}(U)$	45.45 (5)	6.8 (44)	M1+E2	250 (140)	0.027 (9)
$\gamma_{15,12}(U)$	54.96 (10)	~ 1.23	[M1+E2]	130 (110)	~ 0.0094
$\gamma_{14,12}(U)$	54.96 (10)	~ 0.0094	[E1]	0.603 (9)	~ 0.0094
$\gamma_{45,39}(U)$	55.45 (5)	0.043 (14)	(E1)	0.589 (9)	0.027 (9)
$\gamma_{22,16}(U)$	58.20 (6)	0.47 (16)	(E2)	174 (3)	0.0027 (9)
$\gamma_{56,51}(U)$	59.19 (5)	2.9 (25)	[M1+E2]	90 (70)	0.032 (11)
$\gamma_{13,9}(U)$	62.70 (1)	2.3 (7)	E1	0.426 (6)	1.6 (5)
$\gamma_{25,22}(U)$	67.25 (10)	2.1 (8)	M1+E2	57 (11)	0.036 (11)
$\gamma_{25,20}(U)$	69.46 (5)	0.7 (6)	[E2,M1]	40 (30)	0.018 (8)
$\gamma_{16,13}(U)$	79.84 (2)	2.4 (9)	E2	38.4 (6)	0.062 (22)
$\gamma_{14,9}(U)$	97.17 (10)	0.27 (10)	[E1]	0.1343 (20)	0.24 (9)
$\gamma_{2,1}(U)$	99.86 (2)	46 (9)	E2	13.42 (19)	3.2 (6)
$\gamma_{16,12}(U)$	100.89 (2)	0.140 (27)	[E1]	0.1218 (17)	0.125 (24)
$\gamma_{22,14}(U)$	103.77 (2)	2.93 (49)	(E2)	11.22 (16)	0.24 (4)
$\gamma_{16,11}(U)$	106.68 (5)	0.17 (5)	[M1]	3.83 (6)	0.036 (11)
$\gamma_{25,16}(U)$	125.46 (1)	4.7 (7)	E2	4.89 (7)	0.79 (12)
$\gamma_{43,33}(U)$	131.30 (1)	23 (2)	E1	0.265 (4)	18.2 (16)
$\gamma_{51,45}(U)$	134.61 (2)	1.20 (24)	M1	9.50 (14)	0.114 (23)
$\gamma_{21,13}(U)$	137.23 (5)	0.033 (11)	[E1]	0.239 (4)	0.027 (9)
$\gamma_{13,7}(U)$	140.15 (2)	3.2 (10)	M1+E2	5.3 (18)	0.51 (7)
$\gamma_{49,43}(U)$	140.91 (3)	0.38 (6)	[E1]	0.224 (4)	0.31 (5)
$\gamma_{33,30}(U)$	143.78 (2)	2.02 (32)	(M1+E2)	5.31	0.32 (5)
$\gamma_{30,22}(U)$	149.88 (3)	0.24 (7)	[E2]	2.31 (4)	0.073 (22)
$\gamma_{3,2}(U)$	152.71 (2)	18.8 (22)	E2	2.14 (3)	6.0 (7)
$\gamma_{33,28}(U)$	159.48 (2)	0.77 (12)	[E1]	0.1676 (24)	0.66 (10)
$\gamma_{22,11}(U)$	164.94 (5)	0.23 (14)	[E2,M1]	3.5 (19)	0.052 (22)
$\gamma_{64,54}(U)$	165.61 (5)	0.084 (25)	[E1]	0.1533 (22)	0.073 (22)
$\gamma_{51,43}(U)$	170.85 (2)	2.97 (41)	M1	4.83 (7)	0.51 (7)
$\gamma_{14,7}(U)$	174.55 (3)	0.66 (31)	[M1+E2]	2.9 (17)	0.17 (3)
$\gamma_{51,41}(U)$	179.80 (8)	0.23 (8)	[M1]	4.19 (6)	0.045 (16)
$\gamma_{51,40}(U)$	186.15 (2)	8.5 (9)	M1	3.79 (6)	1.78 (19)
$\gamma_{56,45}(U)$	193.73 (3)	1.6 (7)	[M1+E2]	2.1 (13)	0.50 (8)
$\gamma_{23,12}(U)$	196.80 (5)	0.22 (12)	E0+E2+M1	2.0 (13)	0.073 (22)
$\gamma_{21,9}(U)$	199.95 (5)	0.22 (12)	(E0+E2+M1)	2.0 (13)	0.073 (22)
$\gamma_{4,3}(U)$	200.97 (3)	1.56 (23)	E2	0.734 (11)	0.90 (13)
$\gamma_{13,5}(U)$	203.12 (3)	3.0 (6)	M1+E2	1.4 (4)	1.24 (15)
$\gamma_{16,7}(U)$	220.00 (8)	0.49 (8)	(M1)	2.37 (4)	0.146 (25)
$\gamma_{66,53}(U)$	221.15 (10)	0.056 (24)	[E1]	0.0780 (11)	0.052 (22)
$\gamma_{37,29}(U)$	221.83 (10)	0.110 (33)	[E2]	0.513 (8)	0.073 (22)
$\gamma_{33,25}(U)$	226.50 (3)	11.3 (20)	M1+E2	1.3 (3)	4.9 (6)
$\gamma_{51,37}(U)$	227.25 (3)	18.4 (19)	M1	2.17 (3)	5.8 (6)
$\gamma_{25,11}(U)$	232.21 (3)	0.40 (16)	[E2,M1]	1.2 (8)	0.18 (3)
$\gamma_{66,51}(U)$	235.11 (3)	0.122 (25)	[E1]	0.0678 (10)	0.114 (23)
$\gamma_{17,7}(U)$	235.9 (30)	0.005 (3)			0.005 (3)
$\gamma_{58,43}(U)$	240.2 (1)	0.11 (6)	[M1,E2]	1.1 (8)	0.052 (22)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{56,40}(U)$	245.37 (2)	2.09 (30)	M1	1.749 (25)	0.76 (11)
$\gamma_{27,13}(U)$	247.79 (7)	0.00037 (4)			0.00037 (4)
$\gamma_{33,24}(U)$	249.22 (1)	2.65 (42)	E1	0.0594 (9)	2.5 (4)
$\gamma_{68,51}(U)$	257.2 (1)	0.10 (6)	[M1,E2]	0.9 (7)	0.052 (22)
$\gamma_{26,10}(U)$	267.12 (5)	0.32 (12)	[E2,M1]	0.8 (6)	0.18 (3)
$\gamma_{49,33}(U)$	272.28 (5)	2.18 (28)	M1+E2	1.004 (14)	1.09 (14)
$\gamma_{21,8}(U)$	275.04 (10)	0.17 (7)	[M1,E2]	0.8 (6)	0.094 (23)
$\gamma_{22,7}(U)$	278.3 (1)	0.052 (14)	[E2]	0.238 (4)	0.042 (11)
$\gamma_{33,22}(U)$	293.79 (5)	4.3 (6)	M1+E2	0.42 (10)	3.0 (4)
$\gamma_{33,20}(U)$	295.91 (8)	0.23 (8)	[M1+E2]	0.6 (5)	0.146 (25)
$\gamma_{17,5}(U)$	298.7 (2)	0.015 (6)	[E1]	0.0396 (6)	0.014 (6)
$\gamma_{64,46}(U)$	308.6 (2)	0.025 (7)	[E2]	0.1726 (25)	0.021 (6)
$\gamma_{71,51}(U)$	310.2 (1)	0.109 (35)	[M1,E2]	0.5 (4)	0.073 (13)
$\gamma_{27,9}(U)$	310.52 (10)	0.000135 (15)			0.000135 (15)
$\gamma_{23,8}(U)$	313.5 (1)	0.156 (47)	[E2,M1]	0.5 (4)	0.104 (14)
$\gamma_{21,6}(U)$	316.7 (1)	0.121 (16)	[E2]	0.1597 (23)	0.104 (14)
$\gamma_{34,22}(U)$	320.4 (1)	0.078 (24)	[E2,M1]	0.5 (4)	0.052 (8)
$\gamma_{33,18}(U)$	330.40 (5)	0.80 (9)	[E1]	0.0318 (5)	0.78 (9)
$\gamma_{74,52}(U)$	331.4 (1)	0.073 (13)			0.073 (13)
$\gamma_{21,5}(U)$	340.2 (1)	0.042 (9)	[E1]	0.0298 (5)	0.041 (9)
$\gamma_{31,12}(U)$	343.8 (2)	0.035 (8)	[E1]	0.0292 (5)	0.034 (8)
$\gamma_{33,16}(U)$	351.9 (1)	0.47 (6)	E2	0.1175 (17)	0.42 (5)
$\gamma_{46,28}(U)$	357.9 (1)	0.050 (19)	[M1,E2]	0.4 (3)	0.036 (11)
$\gamma_{56,33}(U)$	360.6 (3)	0.018 (7)	[E1]	0.0264 (4)	0.018 (7)
$\gamma_{26,7}(U)$	365.0 (3)	0.018 (7)	[E1]	0.0257 (4)	0.018 (7)
$\gamma_{37,21}(U)$	369.50 (5)	3.91 (47)	M1	0.565 (8)	2.5 (3)
$\gamma_{40,23}(U)$	372.0 (1)	1.87 (21)	M1(+E2)	0.517 (8)	1.23 (14)
$\gamma_{32,11}(U)$	379.1 (1)	0.043 (11)	[E1]	0.0237 (4)	0.042 (11)
$\gamma_{31,9}(U)$	385.4 (1)	0.043 (11)	[E1]	0.0229 (4)	0.042 (11)
$\gamma_{27,7}(U)$	387.94 (6)	0.00072 (6)			0.00072 (6)
$\gamma_{45,25}(U)$	394.1 (1)	0.096 (14)	[E1]	0.0219 (3)	0.094 (14)
$\gamma_{33,15}(U)$	397.7 (3)	0.063 (16)	[M2]	1.349 (20)	0.027 (7)
$\gamma_{-1,2}(U)$	401.8 (2)				0.036 (11)
$\gamma_{40,22}(U)$	409.8 (1)	0.35 (5)	[E1]	0.0202 (3)	0.34 (5)
$\gamma_{49,30}(U)$	416.1 (1)	0.039 (12)	[E2]	0.0746 (11)	0.036 (11)
$\gamma_{-1,3}(U)$	425.3 (2)				0.036 (11)
$\gamma_{37,16}(U)$	426.95 (5)	0.47 (5)	[E1]	0.0185 (3)	0.46 (5)
$\gamma_{27,6}(U)$	427.4 (4)	0.000031 (10)			0.000031 (10)
$\gamma_{68,42}(U)$	433.1 (1)	0.094 (14)			0.094 (14)
$\gamma_{40,18}(U)$	446.6 (1)	0.153 (20)	[M1]	0.338 (5)	0.114 (15)
$\gamma_{27,5}(U)$	450.93 (4)	0.0050 (24)	M1+E2	0.241 (4)	0.0040 (19)
$\gamma_{42,19}(U)$	452.4 (3)	0.027 (9)			0.027 (9)
$\gamma_{33,11}(U)$	458.68 (5)	1.30 (15)	M1+E2	0.14 (5)	1.14 (12)
$\gamma_{45,22}(U)$	461.5 (1)	0.045 (14)	[M1]	0.309 (5)	0.034 (11)
$\gamma_{39,16}(U)$	464.2 (1)	0.040 (14)	[M1]	0.304 (5)	0.031 (11)
$\gamma_{40,16}(U)$	468.0 (1)	0.223 (30)	[E1]	0.01539 (22)	0.22 (3)
$\gamma_{37,15}(U)$	472.3 (1)	0.46 (5)	[M1]	0.290 (4)	0.36 (4)
$\gamma_{41,16}(U)$	474.2 (2)	0.037 (11)	[E1]	0.01499 (21)	0.036 (11)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{42,16}(U)$	478.6 (1)	0.127 (15)	[E1]	0.01472 (21)	0.125 (15)
$\gamma_{71,43}(U)$	481.0 (1)	0.36 (6)	[M1,E2]	0.16 (12)	0.31 (4)
$\gamma_{45,18}(U)$	498.0 (1)	0.078 (15)	[M1]	0.252 (4)	0.062 (12)
$\gamma_{66,35}(U)$	502.0 (1)	0.03 (10)	[E2,M1]	0.15 (10)	0.027 (90)
$\gamma_{37,13}(U)$	506.75 (5)	1.32 (14)	[E1]	0.01314 (19)	1.30 (14)
$\gamma_{40,15}(U)$	513.4 (1)	~ 0.468	[M1]	0.232 (4)	~ 0.38
$\gamma_{40,14}(U)$	513.5 (1)	~ 0.77	[E1]	0.01280 (18)	~ 0.76
$\gamma_{45,16}(U)$	519.6 (1)	0.41 (5)	[E1]	0.01251 (18)	0.40 (5)
$\gamma_{49,24}(U)$	521.4 (1)	0.76 (9)	[E1]	0.01242 (18)	0.75 (9)
$\gamma_{37,12}(U)$	527.9 (1)	0.49 (6)	(M1)	0.215 (3)	0.40 (5)
$\gamma_{43,15}(U)$	529.1 (3)	0.102 (46)	[E2,M1]	0.13 (9)	0.09 (4)
$\gamma_{76,44}(U)$	534.1 (1)	0.084 (13)	[E1]	0.01185 (17)	0.083 (13)
$\gamma_{71,37}(U)$	537.2 (1)	0.093 (16)	[M1,E2]	0.12 (9)	0.083 (13)
$\gamma_{39,13}(U)$	543.8 (1)	0.140 (25)	[E2]	0.0389 (6)	0.135 (24)
$\gamma_{47,19}(U)$	553.7 (1)	0.045 (16)	[E1]	0.01105 (16)	0.045 (16)
$\gamma_{44,14}(U)$	558.0 (2)	0.097 (24)	[E2]	0.0367 (6)	0.094 (23)
$\gamma_{36,9}(U)$	559.2 (2)	0.074 (22)	[E1]	0.01084 (16)	0.073 (22)
$\gamma_{76,43}(U)$	562.8 (3)	0.040 (13)	[M1,E2]	0.11 (8)	0.036 (11)
$\gamma_{45,15}(U)$	565.2 (1)	1.23 (13)	(M1)	0.179 (3)	1.04 (11)
$\gamma_{40,12}(U)$	568.9 (2)	4.2 (7)	M1	0.1759 (25)	3.6 (6)
$\gamma_{37,9}(U)$	569.5 (1)	10.9 (14)	M1	0.1754 (25)	9.3 (12)
$\gamma_{41,12}(U)$	575.5 (1)	0.03 (1)	[E2,M1]	0.10 (7)	0.027 (9)
$\gamma_{43,12}(U)$	584.1 (1)	0.19 (31)	[E2]	0.0331 (5)	0.18 (30)
$\gamma_{64,32}(U)$	586.3 (1)	0.075 (13)	[E2]	0.0328 (5)	0.073 (13)
$\gamma_{40,10}(U)$	590.3 (10)	0.040 (12)	[E2,M1]	0.10 (7)	0.036 (11)
$\gamma_{50,22}(U)$	595.4 (2)	0.097 (24)	[E2]	0.0317 (5)	0.094 (23)
$\gamma_{59,26}(U)$	596.9 (1)	0.231 (35)	[M1]	0.1547 (22)	0.20 (3)
$\gamma_{49,18}(U)$	602.6 (1)	0.55 (6)	[E1]	0.00939 (14)	0.54 (6)
$\gamma_{43,10}(U)$	604.6 (3)	0.057 (24)	[E2,M1]	0.09 (6)	0.052 (22)
$\gamma_{53,21}(U)$	612.0 (1)	0.43 (6)	(M1)	0.1447 (21)	0.38 (5)
$\gamma_{41,9}(U)$	617.0 (2)	0.054 (23)	[E2]	0.0294 (5)	0.052 (22)
$\gamma_{44,11}(U)$	619.0 (2)	0.039 (12)	[M1+E2]	0.08 (6)	0.036 (11)
$\gamma_{49,16}(U)$	624.2 (1)	0.39 (6)	(M1+E2)	0.1015 (15)	0.35 (5)
$\gamma_{20,4}(U)$	628.1 (1)	0.24 (5)	[E1]	0.00868 (13)	0.24 (5)
$\gamma_{48,15}(U)$	629.4 (1)	0.40 (7)	(M1)	0.1342 (19)	0.35 (6)
$\gamma_{51,18}(U)$	632.6 (2)	0.039 (12)	[E2,M1]	0.08 (6)	0.036 (11)
$\gamma_{54,22}(U)$	634.3 (2)	0.153 (27)	[M1]	0.1315 (19)	0.135 (24)
$\gamma_{-1,4}(U)$	643.2 (2)				0.027 (9)
$\gamma_{37,7}(U)$	646.5 (1)	0.115 (15)	[E1]	0.00822 (12)	0.114 (15)
$\gamma_{50,16}(U)$	653.7 (1)	0.53 (9)	M1	0.1213 (17)	0.47 (8)
$\gamma_{56,22}(U)$	655.2 (2)	0.136 (24)	[E1]	0.00802 (12)	0.135 (24)
$\gamma_{46,11}(U)$	657.4 (1)	0.40 (5)			0.40 (5)
$\gamma_{-1,5}(U)$	659.8 (1)				0.27 (4)
$\gamma_{48,13}(U)$	663.9 (1)	0.54 (9)	[E1]	0.00782 (11)	0.54 (9)
$\gamma_{11,3}(U)$	666.5 (1)	1.19 (13)	[E1]	0.00777 (11)	1.18 (13)
$\gamma_{35,5}(U)$	669.7 (1)	< 0.0006			< 0.0006
$\gamma_{49,15}(U)$	669.7 (1)	1.01 (10)	[E1]	0.00770 (11)	1.0 (1)
$\gamma_{24,4}(U)$	675.1 (1)	0.103 (14)	[E2]	0.0242 (4)	0.101 (14)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{59,22}(U)$	683.9 (2)	0.161 (40)	[E1]	0.00740 (11)	0.16 (4)
$\gamma_{40,8}(U)$	685.1 (2)	0.15 (4)			0.15 (4)
$\gamma_{54,16}(U)$	692.6 (1)	1.38 (14)	(M1)	0.1040 (15)	1.25 (13)
$\gamma_{51,15}(U)$	699.03 (5)	3.6 (4)			3.6 (4)
$\gamma_{7,2}(U)$	705.9 (1)	2.31 (23)	[E1]	0.00698 (10)	2.29 (23)
$\gamma_{8,2}(U)$	708.3 (2)	0.024 (9)	[E2]	0.0219 (3)	0.023 (9)
$\gamma_{-1,6}(U)$	711.5 (1)				0.156 (25)
$\gamma_{52,14}(U)$	713.7 (1)	0.147 (25)	[E1]	0.00684 (10)	0.146 (25)
$\gamma_{62,23}(U)$	716.5 (2)	0.033 (10)	[M1,E2]	0.06 (4)	0.031 (9)
$\gamma_{15,3}(U)$	727.8 (2)	0.116 (15)	[E2]	0.0207 (3)	0.114 (15)
$\gamma_{49,11}(U)$	730.9 (2)	0.67 (11)	[M1,E2]	0.06 (4)	0.63 (10)
$\gamma_{50,13}(U)$	733.39 (5)	7.6 (9)	M1	0.0893 (13)	7.0 (8)
$\gamma_{54,14}(U)$	738.0 (1)	1.26 (14)	(M1)	0.0878 (13)	1.16 (13)
$\gamma_{5,1}(U)$	742.813 (5)	2.09 (21)	E1	0.00636 (9)	2.08 (21)
$\gamma_{49,10}(U)$	745.9 (1)	0.32 (5)	[E1]	0.00631 (9)	0.32 (5)
$\gamma_{52,13}(U)$	748.1 (3)	0.105 (23)	[E1]	0.00628 (9)	0.104 (23)
$\gamma_{51,12}(U)$	755.0 (1)	1.29 (15)	(E2,M1)	0.05 (4)	1.23 (13)
$\gamma_{56,15}(U)$	758.9 (1)	0.262 (33)	[M1,E2]	0.05 (4)	0.25 (3)
$\gamma_{50,11}(U)$	761.0 (2)	0.074 (22)	[E2]	0.0189 (3)	0.073 (22)
$\gamma_{28,4}(U)$	764.8 (2)	0.21 (5)	[M1,E2]	0.05 (3)	0.20 (5)
$\gamma_{6,1}(U)$	766.4 (2)	0.26 (5)	(E2)	0.0187 (3)	0.26 (5)
$\gamma_{58,15}(U)$	769.1 (1)	0.196 (22)	[M1,E2]	0.05 (3)	0.187 (20)
$\gamma_{54,13}(U)$	772.4 (2)	0.074 (22)	[E2]	0.0184 (3)	0.073 (22)
$\gamma_{-1,7}(U)$	778.6 (2)				0.046 (10)
$\gamma_{30,4}(U)$	780.4 (2)	0.91 (9)	[E1]	0.00581 (9)	0.90 (9)
$\gamma_{9,2}(U)$	783.4 (1)	0.305 (41)	[E2]	0.0179 (3)	0.30 (4)
$\gamma_{5,0}(U)$	786.272 (22)	1.22 (13)	(E1)	0.00573 (8)	1.21 (13)
$\gamma_{54,12}(U)$	792.8 (3)	0.045 (11)	[E1]	0.00565 (8)	0.045 (11)
$\gamma_{18,3}(U)$	794.9 (2)	0.69 (11)	[E2]	0.01735 (25)	0.68 (11)
$\gamma_{51,9}(U)$	796.1 (1)	2.64 (31)	[E2]	0.01730 (25)	2.6 (3)
$\gamma_{55,12}(U)$	802.3 (2)	0.033 (10)	[M1]	0.0703 (10)	0.031 (9)
$\gamma_{10,2}(U)$	804.1 (1)	0.85 (30)	E0+E2	0.37	0.62 (22)
$\gamma_{7,1}(U)$	805.80 (5)	2.51 (30)	[E1]	0.00549 (8)	2.5 (3)
$\gamma_{8,1}(U)$	808.4 (3)	0.19 (6)	E0+E2	4.2	0.036 (11)
$\gamma_{53,9}(U)$	811.5 (1)	0.130 (16)	[M1,E2]	0.04 (3)	0.125 (15)
$\gamma_{56,12}(U)$	814.2 (1)	0.315 (41)	[E2]	0.01654 (24)	0.31 (4)
$\gamma_{11,2}(U)$	819.2 (1)	1.91 (20)	[E1]	0.00533 (8)	1.9 (2)
$\gamma_{-1,8}(U)$	824.2 (2)				1.25 (15)
$\gamma_{12,2}(U)$	825.1 (2)	1.93 (20)	[E2]	0.01611 (23)	1.9 (2)
$\gamma_{20,3}(U)$	829.3 (2)	0.36 (11)	[E1]	0.00521 (8)	0.36 (11)
$\gamma_{22,3}(U)$	831.5 (1)	4.2 (5)	[E1]	0.00518 (8)	4.2 (5)
$\gamma_{75,28}(U)$	839.5 (1)	0.031 (8)			0.031 (8)
$\gamma_{49,7}(U)$	844.1 (1)	0.44 (5)	[E2]	0.01540 (22)	0.43 (5)
$\gamma_{-1,9}(U)$	846.1 (2)				0.052 (12)
$\gamma_{59,11}(U)$	848.9 (2)	0.027 (8)	[E1]	0.00500 (7)	0.027 (8)
$\gamma_{8,0}(U)$	851.8 (1)	0.074 (22)	[E2]	0.01513 (22)	0.073 (22)
$\gamma_{57,9}(U)$	857.7 (2)	0.037 (8)	[E2]	0.01493 (21)	0.036 (8)
$\gamma_{59,10}(U)$	863.2 (2)	0.076 (23)	[E2,M1]	0.036 (22)	0.073 (22)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{77,29}(U)$	869.7 (1)	0.20 (3)			0.20 (3)
$\gamma_{50,7}(U)$	874.0 (3)	0.037 (8)	[E2,M1]	0.035 (21)	0.036 (8)
$\gamma_{24,3}(U)$	876.0 (1)	2.59 (23)	(E2)	0.01432 (20)	2.55 (23)
$\gamma_{15,2}(U)$	880.52 (4)	6.3 (8)	[E2]	0.01418 (20)	6.2 (8)
$\gamma_{14,2}(U)$	880.52 (4)	4.3 (6)	[E1]	0.00468 (7)	4.3 (6)
$\gamma_{9,1}(U)$	883.24 (4)	9.8 (11)	E2	0.01409 (20)	9.7 (11)
$\gamma_{66,16}(U)$	890.1 (4)	0.027 (8)			0.027 (8)
$\gamma_{25,3}(U)$	898.67 (5)	3.31 (40)	[E1]	0.00451 (7)	3.3 (4)
$\gamma_{10,1}(U)$	904.2 (1)	0.345 (41)	[E2]	0.01346 (19)	0.34 (4)
$\gamma_{65,15}(U)$	916.5 (2)	0.024 (7)			0.024 (7)
$\gamma_{26,3}(U)$	918.4 (1)	0.101 (14)	[E2]	0.01306 (19)	0.100 (14)
$\gamma_{-1,10}(U)$	920.5 (2)				0.029 (8)
$\gamma_{12,1}(U)$	925.0 (1)	8.0 (9)	(E2)	0.01288 (18)	7.9 (9)
$\gamma_{16,2}(U)$	926.0 (2)	1.8 (13)	[E1]	0.00428 (6)	1.8 (13)
$\gamma_{9,0}(U)$	926.7 (1)	7.4 (12)	(E2)	0.01284 (18)	7.3 (12)
$\gamma_{66,15}(U)$	935.8 (2)	0.067 (10)			0.067 (10)
$\gamma_{17,2}(U)$	942.0 (3)	0.047 (9)	[E2]	0.01244 (18)	0.046 (9)
$\gamma_{13,1}(U)$	946.00 (3)	13.6 (15)	(E1)	0.00412 (6)	13.5 (15)
$\gamma_{18,2}(U)$	947.7 (2)	1.65 (21)	[E2]	0.01230 (18)	1.63 (21)
$\gamma_{19,2}(U)$	952.7 (1)	0.083 (13)			0.083 (13)
$\gamma_{59,8}(U)$	960.0 (1)	0.074 (13)	[E2]	0.01199 (17)	0.073 (13)
$\gamma_{28,3}(U)$	965.8 (1)	0.49 (6)	[M1,E2]	0.027 (16)	0.48 (6)
$\gamma_{73,18}(U)$	975.1 (1)	0.027 (8)			0.027 (8)
$\gamma_{29,3}(U)$	978.2 (3)	0.090 (23)			0.090 (23)
$\gamma_{14,1}(U)$	980.3 (1)	~ 2.71	[E1]	0.00387 (6)	~ 2.7
$\gamma_{15,1}(U)$	980.3 (1)	~ 1.79	[E2]	0.01152 (17)	~ 1.77
$\gamma_{30,3}(U)$	981.6 (3)	0.73 (22)	[E1]	0.00387 (6)	0.73 (22)
$\gamma_{22,2}(U)$	984.2 (1)	1.64 (21)	[E1]	0.00385 (6)	1.63 (21)
$\gamma_{63,9}(U)$	989.5 (1)	0.104 (14)			0.104 (14)
$\gamma_{-1,11}(U)$	992.0 (2)				0.083 (22)
$\gamma_{60,7}(U)$	994.6 (3)	0.062 (22)			0.062 (22)
$\gamma_{73,16}(U)$	997.7 (3)	0.046 (12)			0.046 (12)
$\gamma_{71,15}(U)$	1009.9 (3)	0.067 (12)			0.067 (12)
$\gamma_{76,19}(U)$	1019.5 (4)	0.027 (8)			0.027 (8)
$\gamma_{23,2}(U)$	1021.8 (2)	0.156 (41)	[M1]	0.0370 (6)	0.15 (4)
$\gamma_{-1,12}(U)$	1023.6 (2)				0.062 (22)
$\gamma_{-1,13}(U)$	1025.3 (2)				0.052 (22)
$\gamma_{24,2}(U)$	1028.7 (1)	0.58 (6)	[E2]	0.01051 (15)	0.57 (6)
$\gamma_{75,16}(U)$	1032.8 (2)	0.018 (5)			0.018 (5)
$\gamma_{-1,14}(U)$	1035.9 (2)				0.026 (10)
$\gamma_{69,11}(U)$	1037.9 (2)	0.018 (7)			0.018 (7)
$\gamma_{17,1}(U)$	1041.1 (2)	0.033 (11)	[E2,M1]	0.023 (13)	0.032 (11)
$\gamma_{32,3}(U)$	1044.4 (2)	0.031 (3)			0.031 (3)
$\gamma_{70,12}(U)$	1051.4 (2)	0.062 (12)			0.062 (12)
$\gamma_{70,11}(U)$	1057.8 (3)	0.0177 (16)			0.0177 (16)
$\gamma_{71,12}(U)$	1065.1 (1)	0.027 (8)			0.027 (8)
$\gamma_{69,9}(U)$	1073.6 (2)	0.104 (14)			0.104 (14)
$\gamma_{21,1}(U)$	1083.2 (1)	0.53 (6)	(M1)	0.0317 (5)	0.51 (6)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{17,0}(U)$	1085.3 (3)	0.027 (8)	[E2]	0.00950 (14)	0.027 (8)
$\gamma_{71,9}(U)$	1106.9 (2)	0.083 (13)			0.083 (13)
$\gamma_{66,7}(U)$	1110.6 (1)	0.062 (12)			0.062 (12)
$\gamma_{23,1}(U)$	1121.7 (1)	0.257 (41)	M1	0.0289 (4)	0.25 (4)
$\gamma_{33,3}(U)$	1125.2 (1)	0.36 (8)	[E1]	0.00305 (5)	0.36 (8)
$\gamma_{21,0}(U)$	1126.8 (1)	0.303 (40)	[E2]	0.00885 (13)	0.30 (4)
$\gamma_{34,3}(U)$	1151.4 (3)	0.032 (10)	[E1]	0.00294 (5)	0.032 (10)
$\gamma_{76,11}(U)$	1153.5 (3)	0.046 (9)			0.046 (9)
$\gamma_{26,1}(U)$	1171.3 (1)	0.091 (13)	[E2]	0.00824 (12)	0.090 (13)
$\gamma_{66,5}(U)$	1173.1 (1)	0.046 (9)			0.046 (9)
$\gamma_{71,8}(U)$	1182.1 (2)	~ 0.0094			~ 0.0094
$\gamma_{27,1}(U)$	1193.77 (2)	0.021 (6)	E1	0.00277 (4)	0.021 (6)
$\gamma_{77,9}(U)$	1217.3 (1)	0.22 (3)			0.22 (3)
$\gamma_{-1,15}(U)$	1220.4 (2)				0.062 (12)
$\gamma_{27,0}(U)$	1237.3 (3)	< 0.0094	E1	0.00262 (4)	< 0.0094
$\gamma_{40,3}(U)$	1241.2 (1)	0.232 (30)	(E2)	0.00740 (11)	0.23 (3)
$\gamma_{41,3}(U)$	1247.8 (2)	0.022 (6)	[E2]	0.00733 (11)	0.022 (6)
$\gamma_{42,3}(U)$	1252.6 (2)	0.018 (8)			0.018 (8)
$\gamma_{43,3}(U)$	1256.5 (1)	0.060 (8)	[M1,E2]	0.014 (8)	0.059 (8)
$\gamma_{33,2}(U)$	1277.7 (2)	0.047 (9)	[M2]	0.0473 (7)	0.045 (9)
$\gamma_{45,3}(U)$	1292.8 (1)	0.48 (6)	M1	0.0199 (3)	0.47 (6)
$\gamma_{-1,16}(U)$	1296.4 (2)				0.029 (7)
$\gamma_{-1,17}(U)$	1301.2 (2)				0.018 (5)
$\gamma_{-1,18}(U)$	1327.0 (2)				0.018 (5)
$\gamma_{36,2}(U)$	1342.9 (2)	0.012 (5)	[E1]	0.00232 (4)	0.012 (5)
$\gamma_{37,2}(U)$	1352.9 (1)	1.18 (12)	M1	0.01766 (25)	1.16 (12)
$\gamma_{47,3}(U)$	1354.6 (2)	0.14 (4)	[E1]	0.00229 (4)	0.14 (4)
$\gamma_{38,2}(U)$	1359.0 (1)	0.156 (25)			0.156 (25)
$\gamma_{39,2}(U)$	1389.6 (2)	0.073 (22)	[E1]	0.00222 (4)	0.073 (22)
$\gamma_{40,2}(U)$	1393.9 (1)	2.11 (21)	M1	0.01634 (23)	2.08 (21)
$\gamma_{49,3}(U)$	1397.5 (2)	0.083 (22)	[E1]	0.00220 (3)	0.083 (22)
$\gamma_{41,2}(U)$	1400.3 (1)	0.182 (30)	[E2,M1]	0.011 (6)	0.18 (3)
$\gamma_{43,2}(U)$	1409.1 (2)	0.045 (10)			0.045 (10)
$\gamma_{35,1}(U)$	1414.4 (2)	< 0.0028			< 0.0028
$\gamma_{51,3}(U)$	1426.9 (1)	0.17 (3)			0.17 (3)
$\gamma_{36,1}(U)$	1442.8 (2)	0.031 (7)	[E1]	0.00212 (3)	0.031 (7)
$\gamma_{45,2}(U)$	1445.4 (1)	0.32 (5)	[M1]	0.01488 (21)	0.32 (5)
$\gamma_{37,1}(U)$	1452.7 (1)	0.82 (9)	[M1]	0.01468 (21)	0.81 (9)
$\gamma_{38,1}(U)$	1458.9 (1)	0.094 (23)			0.094 (23)
$\gamma_{46,2}(U)$	1475.8 (2)	0.008 (4)			0.008 (4)
$\gamma_{56,3}(U)$	1485.4 (2)	0.030 (7)	[M1]	0.01387 (20)	0.030 (7)
$\gamma_{57,3}(U)$	1488.0 (2)	0.014 (6)			0.014 (6)
$\gamma_{40,1}(U)$	1493.6 (1)	0.105 (14)	[E2]	0.00531 (8)	0.104 (14)
$\gamma_{58,3}(U)$	1496.0 (2)	0.036 (9)			0.036 (9)
$\gamma_{41,1}(U)$	1500.0 (2)	0.0111 (40)	[E2]	0.00528 (8)	0.011 (4)
$\gamma_{-1,19}(U)$	1507.3 (2)				0.020 (5)
$\gamma_{48,2}(U)$	1510.1 (2)	< 0.0094			< 0.0094
$\gamma_{59,3}(U)$	1515.6 (2)	0.073 (13)			0.073 (13)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{-1,20}(U)$	1520.7 (2)				0.0094 (9)
$\gamma_{-1,21}(U)$	1538.8 (2)				0.014 (4)
$\gamma_{49,2}(U)$	1550.1 (1)	0.073 (13)	[E1]	0.00196 (3)	0.073 (13)
$\gamma_{61,3}(U)$	1567.0 (2)	0.0114 (23)			0.0114 (23)
$\gamma_{51,2}(U)$	1579.9 (1)	0.073 (22)			0.073 (22)
$\gamma_{62,3}(U)$	1585.9 (1)	0.146 (17)			0.146 (17)
$\gamma_{52,2}(U)$	1594.0 (1)	0.312 (40)	M1,E2	0.008 (4)	0.31 (4)
$\gamma_{54,2}(U)$	1618.3 (2)	0.009 (4)			0.009 (4)
$\gamma_{55,2}(U)$	1627.3 (1)	0.076 (11)			0.076 (11)
$\gamma_{56,2}(U)$	1638.1 (1)	0.210 (21)	(M1)	0.01083 (16)	0.208 (21)
$\gamma_{57,2}(U)$	1640.5 (3)	0.010 (4)			0.010 (4)
$\gamma_{65,3}(U)$	1644.9 (2)	0.010 (4)			0.010 (4)
$\gamma_{58,2}(U)$	1650.2 (2)	<0.006			<0.006
$\gamma_{-1,22}(U)$	1655.7 (1)				0.026 (4)
$\gamma_{-1,23}(U)$	1664.8 (3)				0.018 (7)
$\gamma_{59,2}(U)$	1668.4 (1)	0.78 (9)	(M1)	0.01035 (15)	0.77 (9)
$\gamma_{67,3}(U)$	1672.8 (1)	0.034 (11)			0.034 (11)
$\gamma_{50,1}(U)$	1679.5 (1)	0.077 (18)			0.077 (18)
$\gamma_{68,3}(U)$	1685.7 (1)	0.31 (4)			0.31 (4)
$\gamma_{52,1}(U)$	1693.8 (2)	0.7 (1)			0.7 (1)
$\gamma_{53,1}(U)$	1695.0 (3)	0.27 (7)			0.27 (7)
$\gamma_{60,2}(U)$	1700.5 (2)	0.104 (14)			0.104 (14)
$\gamma_{61,2}(U)$	1719.7 (2)	0.018 (6)			0.018 (6)
$\gamma_{70,3}(U)$	1723.2 (2)	0.016 (4)			0.016 (4)
$\gamma_{55,1}(U)$	1727.8 (2)	0.020 (5)			0.020 (5)
$\gamma_{62,2}(U)$	1737.7 (2)	0.075 (11)			0.075 (11)
$\gamma_{72,3}(U)$	1741.1 (2)	0.049 (8)			0.049 (8)
$\gamma_{-1,24}(U)$	1743.2 (2)				0.033 (8)
$\gamma_{58,1}(U)$	1750.0 (1)	0.064 (10)			0.064 (10)
$\gamma_{-1,25}(U)$	1757.5 (1)				0.024 (6)
$\gamma_{59,1}(U)$	1768.0 (3)	0.020 (5)			0.020 (5)
$\gamma_{73,3}(U)$	1770.8 (2)	0.068 (17)			0.068 (17)
$\gamma_{63,2}(U)$	1773.0 (2)	0.068 (17)			0.068 (17)
$\gamma_{64,2}(U)$	1783.7 (2)	0.025 (7)			0.025 (7)
$\gamma_{65,2}(U)$	1797.1 (1)	0.24 (3)			0.24 (3)
$\gamma_{75,3}(U)$	1805.8 (3)	0.0052 (22)			0.0052 (22)
$\gamma_{66,2}(U)$	1815.3 (3)	0.009 (4)			0.009 (4)
$\gamma_{76,3}(U)$	1819.8 (3)	0.0042 (11)			0.0042 (11)
$\gamma_{67,2}(U)$	1825.1 (3)	0.009 (4)			0.009 (4)
$\gamma_{-1,26}(U)$	1830.8 (3)				0.0042 (11)
$\gamma_{68,2}(U)$	1838.0 (2)	0.0042 (11)			0.0042 (11)
$\gamma_{-1,27}(U)$	1849.8 (2)				0.028 (7)
$\gamma_{63,1}(U)$	1872.8 (2)	0.035 (9)			0.035 (9)
$\gamma_{64,1}(U)$	1884.1 (3)	0.016 (5)			0.016 (5)
$\gamma_{71,2}(U)$	1890.1 (2)	0.146 (17)			0.146 (17)
$\gamma_{72,2}(U)$	1893.4 (3)	~ 0.0062			~ 0.0062
$\gamma_{65,1}(U)$	1896.7 (2)	0.104 (23)			0.104 (23)
$\gamma_{66,1}(U)$	1915.5 (3)	0.020 (5)			0.020 (5)

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	α_T	P_γ $\times 100$
$\gamma_{74,2}(U)$	1925.4 (2)	0.30 (5)			0.30 (5)
$\gamma_{-1,28}(U)$	1927.9 (4)				0.054 (12)
$\gamma_{-1,29}(U)$	1935.2 (4)				~ 0.0094
$\gamma_{68,1}(U)$	1937.7 (3)	0.042 (11)			0.042 (11)
$\gamma_{75,2}(U)$	1958.0 (4)	0.010 (3)			0.010 (3)
$\gamma_{76,2}(U)$	1971.2 (4)	~ 0.0027			~ 0.0027
$\gamma_{70,1}(U)$	1977.4 (4)	0.017 (5)			0.017 (5)
$\gamma_{71,1}(U)$	1989.6 (4)	0.007 (4)			0.007 (4)
$\gamma_{76,1}(U)$	2072.2 (4)	0.0042 (22)			0.0042 (22)

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