Results:

<u>Dataset #1:</u>
<u>Authors:</u> F.G. Kondev, S. Lalkovski <u>Citation:</u> Nuclear Data Sheets 108,1471 (2007)

Parent Nucleus	Parent I E(level)		Parent T _{1/2}	Decay Mode	GS-GS Q-value (keV)	Daughter Nucleus		
300	. ,					300	Decay Scheme	
²⁰⁰ ₈₂ Pb	0	0+	21.5 h 4	ε: 100 %	805 <i>12</i>	²⁰⁰ TI		

Electrons:

Energy (keV)			Intensity (%)	Dose (MeV/Bq-s)	
Auger L	7.78		86 % 3	0.00669 20	
CE L	17.39	3	0.91 % 15	1.6E-4 3	
CE K	24.01	4	2.6 % 4	6.3E-4 9	
CE M	29.04	3	0.21 % 4	6.2E-5 <i>10</i>	
CE N	31.89	3	0.054 % 9	1.7E-5 3	
CE O	32.67	3	0.0105 % 18	3.4E-6 6	
Auger K	55.2		4.0 % 4	0.00221 25	
CE K	56.75	3	8.2 % 5	0.0047 3	
CE K	62.10	3	12.7 % 5	0.0079 3	
CE K	69.76	10	0.09 % 3	6.6E-5 <i>24</i>	
CE K	75.79	4	0.55 % 6	4.2E-4 5	
CE L	94.19	4	0.45 % 6	4.3E-4 6	
CE M	105.84	4	0.106 % 15	1.12E-4 <i>16</i>	
CE K	107.86	10	0.036 % 15	3.9E-5 <i>16</i>	
CE N	108.69	4	0.027 % 4	2.9E-5 4	
CE O	109.47	4	0.0052 % 7	5.7E-6 8	
CE L	126.93	3	1.41 % 9	0.00178 11	
CE L	132.28	3	25.6 % 10	0.0339 14	
CE M	138.58	3	0.328 % 20	4.6E-4 3	
CE L	139.94	10	0.016 % <i>6</i>	2.3E-5 8	
CE N	141.43	3	0.083 % 5	1.17E-4 7	
CE O	142.21	3	0.0161 % 10	2.29E-5 <i>14</i>	
CE M	143.93	3	6.7 % 3	0.0097 4	
CE L	145.97	4	0.094 % 11	1.37E-4 <i>16</i>	
CE N	146.78	3	1.68 % 7	0.00247 10	
CE O	147.56	3	0.291 % <i>12</i>	4.29E-4 17	
CE K	150.09	4	2.71 % 12	0.00407 18	
CE M	151.59	10	0.0038 % 14	5.7E-6 <i>21</i>	
CE N	154.44	10	1.0E-3 % 3	1.5E-6 5	

CE O	155.22	10	1.8E-4 % 7	2.9E-7 10
CE M	157.62	4	0.022 % 3	3.5E-5 4
CE N	160.47	4	0.0056 % 6	8.9E-6 10
CE O	161.25	4	0.00108 % <i>12</i>	1.74E-6 <i>20</i>
CE K	171.66	3	1.17 % 11	0.00202 19
CE L	178.04	10	0.0062 % <i>25</i>	1.1E-5 4
CE K	182.83	3	1.75 % 9	0.00320 17
CE M	189.69	10	0.0014 % 6	2.7E-6 11
CE N	192.54	10	3.7E-4 % 15	7E-7 3
CE O	193.32	10	7E-5 % 3	1.4E-7 6
CE K	203.71	15	0.38 % 12	7.8E-4 <i>24</i>
CE K	204.39	10	0.62 % 12	0.00126 25
CE K	217.40	5	0.053 % 11	1.15E-4 <i>23</i>
CE L	220.27	4	0.460 % 20	0.00101 4
CE K	230.07	8	0.063 % 10	1.45E-4 <i>22</i>
CE M	231.92	4	0.107 % 5	2.49E-4 11
CE N	234.77	4	0.0271 % 12	6.4E-5 3
CE O	235.55	4	0.00527 % <i>23</i>	1.24E-5 5
CE L	241.84	3	0.325 % 15	7.9E-4 4
CE L	253.01	3	0.296 % 15	7.5E-4 4
CE M	253.49	3	0.080 % 3	2.03E-4 9
CE N	256.34	3	0.0203 % 20	5.2E-5 5
CE O	257.12	3	0.0038 % 6	9.8E-6 <i>14</i>
CE M	264.66	3	0.069 % 4	1.83E-4 9
CE N	267.51	3	0.0174 % 9	4.67E-5 <i>24</i>
CE O	268.29	3	0.00338 % 18	9.1E-6 5
CE L	273.89	15	0.065 % 20	1.8E-4 6
CE L	274.57	10	0.104 % 20	2.9E-4 6
CE M	285.54	15	0.015 % 5	4.3E-5 <i>14</i>
CE M	286.22	10	0.024 % 5	7.0E-5 <i>14</i>
CE L	287.58	5	0.0089 % 18	2.6E-5 5
CE N	288.39	15	0.0038 % 12	1.1E-5 3
CE N	289.07	10	0.0062 % 12	1.8E-5 3
CE O	289.17	15	7.4E-4 % 23	2.1E-6 7
CE O	289.85	10	0.00120 % 23	3.5E-6 7
CE M	299.23	5	0.0021 % 4	6.2E-6 <i>13</i>
CE L	300.25	8	0.0107 % 16	3.2E-5 5
CE N	302.08	5	5.2E-4 % 11	1.6E-6 3
CE O	302.86	5	1.02E-4 % <i>21</i>	3.1E-7 6
CE M	311.90	8	0.0025 % 4	7.8E-6 <i>12</i>
CE N	314.75	8	6.3E-4 % 10	2.0E-6 3
CE O	315.53	8	1.22E-4 % 19	3.8E-7 6

CE	K	365.03	5	0.363 %	0.001324
CE	K	372.27	7	0.0122 % 21	4.5E-5 8
CE	L	435.21	5	0.0607 %	2.64E-4
CE	K	440.01	6	0.030 % 3	1.34E-4 <i>11</i>
CE	L	442.45	7	0.0020 % 4	9.0E-6 <i>16</i>
CE	M	446.86	5	0.01412 %	6.31E-5
CE	N	449.71	5	0.00356 %	1.602E-5
CE	0	450.49	5	6.91E-4 %	3.11E-6
CE	М	454.10	7	4.7E-4 % 8	2.1E-6 4
CE	N	456.95	7	1.19E-4 % <i>21</i>	5.5E-7 10
CE	0	457.73	7	2.3E-5 % 4	1.06E-7 <i>19</i>
CE	L	510.19	6	0.0051 % 4	2.58E-5 <i>22</i>
CE	K	519.91	6	0.0282 % 22	1.47E-4 <i>11</i>
CE	M	521.84	6	0.00118 % 10	6.1E-6 5
CE	N	524.69	6	3.0E-4 % 3	1.56E-6 <i>13</i>
CE	0	525.47	6	5.8E-5 % 5	3.0E-7 3
CE	L	590.09	6	0.0047 % 4	2.75E-5 <i>21</i>
CE	М	601.74	6	0.00109 % 8	6.5E-6 5
CE	N	604.59	6	2.74E-4 % 21	1.66E-6 <i>13</i>
CE	0	605.37	6	5.3E-5 % 4	3.22E-7 <i>25</i>

Gamma and X-ray radiation:

	Energy (keV)	Intensity (%)	Dose (MeV/Bq-s)
XR l	10.3	49.9 % 22	0.00514 23
	32.74 3	0.029 % 5	9.4E-6 <i>16</i>
XR kα2	70.832	29.8 % 10	0.0211 7
XR kα1	72.873	50.0 % 16	0.0365 <i>12</i>
XR kβ3	82.115	6.04 % 19	0.00496 16
XR kβ1	82.574	11.6 % 4	0.0095 3
XR kβ2	84.865	4.21 % 14	0.00358 <i>12</i>
	109.54 4	0.49 % 7	5.4E-4 8
	142.28 3	3.20 % 19	0.0046 3
	147.63 3	38.2 % 14	0.0564 21
	155.29 10 ?	0.047 % 17	7E-5 3
	161.32 4	0.31 % 3	4.9E-4 6
	193.39 10	0.034 % 14	7E-5 3
	235.62 4	4.35 % 18	0.0102 4
	257.19 3	4.52 % 18	0.0116 5
	268.36 <i>3</i>	4.01 % 20	0.0108 5
	289.24 15	1.1 % 3	0.0031 10

289.92	10	1.8 % 3	0.0051 10
302.93	5	0.17 % 3	5.1E-4 10
315.60	8	0.23 % <i>3</i>	7.1E-4 <i>11</i>
348.23	8	0.16 % 5	5.6E-4 18
377.92	5	0.027 % 10	1.0E-4 4
450.56	5	3.37 %	0.0152
457.80	7	0.118 % 20	5.4E-4 9
525.54	6	0.42 % 4	0.00223 19
605.44	6	0.57 % 4	0.0034 3

Gamma Coincidence Data:

For each gamma, the list of gammas in coincidence is given. If experimentally known, an estimate of the average time interval (in seconds) between both gammas is given

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E(y) Coincidence
32.74 109.54, 147.63 (7.10E-9), 235.62, 257.19, 315.60
109.54 32.74, 147.63 (7.10E-9), 155.29, 193.39, 235.62, 268.36, 315.60, 348.23
142.28 147.63 (7.10E-9), 235.62, 315.60
147.63 32.74 (7.10E-9), 109.54 (7.10E-9), 142.28 (7.10E-9), 155.29 (7.10E-9), 193.39 (7.10E-9),
       235.62 (7.10E-9), 268.36 (7.10E-9), 302.93 (7.10E-9), 315.60 (7.10E-9),
       348.23 (7.10E-9), 377.92 (7.10E-9), 457.80 (7.10E-9)
155.29 109.54, 147.63 (7.10E-9), 161.32, 193.39, 257.19, 289.24, 302.93, 450.56
161.32 155.29, 289.24
193.39 109.54, 147.63 (7.10E-9), 155.29, 257.19
235.62 32.74, 109.54, 142.28, 147.63 (7.10E-9), 257.19, 289.92
257.19 32.74, 155.29, 193.39, 235.62, 268.36, 315.60, 348.23
268.36 109.54, 147.63 (7.10E-9), 257.19
289.24 155.29, 161.32
289.92 235.62, 315.60
302.93 147.63 (7.10E-9), 155.29
315.60 32.74, 109.54, 142.28, 147.63 (7.10E-9), 257.19, 289.92
348.23 109.54, 147.63 (7.10E-9), 257.19
377.92 147.63 (7.10E-9)
450.56 155.29
457.80 147.63 (7.10E-9)
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