## Dataset #1:

<u>Author</u>: C.J. Chiara and F.G. Kondev <u>Citation</u>: Nuclear Data Sheets 111,141 (2010)

Parent Nucleus	Parent E(level)	Parent Jπ	Parent T <sub>1/2</sub>	Decay Mode	GS-GS Q-value (keV)	Daughter Nucleus		
<sup>204</sup> <sub>85</sub> <b>At</b>	587.30 <i>20</i>	10-	108 ms <i>10</i>	IT: 100 %	, ,	<sup>204</sup> At	Decay Scheme	

#### Electrons:

	Energy (keV)	Intensity (%)	Dose ( MeV/Bq-s )	
Auger L	8.52	3.03 % 9	2.58E-4 8	
Auger K	61.2	0.128 % 15	7.8E-5 <i>9</i>	
CE K	491.57 20	3.75 %	0.0184	
CE L	569.81 20	2.16 %	0.01233	
CE M	582.98 <i>20</i>	0.566 %	0.00330	
CE N	586.26 <i>20</i>	0.1471 %	8.63E-4	
CE O	587.19 <i>20</i>	0.0299 %	1.76E-4	
CE P	587.29 <i>20</i>	0.00351 %	2.06E-5	

### Gamma and X-ray radiation:

	ergy (eV)	Intensity (%)	Dose ( MeV/Bq-s )		
XR l	11.4	2.16 % 9	2.46E-4 10		
XR kα2	78.948	1.046 % 23	8.26E-4 <i>18</i>		
XR kα1	81.517	1.73 % 3	0.00141 3		
XR kβ3	91.73	0.209 % 4	1.92E-4 4		
XR kβ1	92.315	0.401 % 8	3.70E-4 7		
XR kβ2	94.9	0.149 % 3	1.41E-4 3		
	587.3 <i>2</i>	93.3 %	0.548		

# Dataset #2:

<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 <sub>1/2</sub>	Decay Mode	GS-GS Q-value (keV)	Daughter Nucleus		
							Decay Scheme	
<sup>204</sup> <sub>85</sub> At	0	7+	9.22 m <i>13</i>	α: 3.91 <i>16</i> %	6069.8 15	<sup>200</sup> 8i	Scheme	me

### Alphas:

Energy	Intensity	Dose
(keV)	(%)	( MeV/Bq-s )