

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

$T_{1/2}$	:	1600	(7)	y
$Q_\alpha$	:	4870.62	(25)	keV
$\alpha$	:	100		%

## 2 $\alpha$ Emissions

	Energy keV	Probability $\times 100$
$\alpha_{0,4}$	4160 (2)	0.0002
$\alpha_{0,3}$	4191 (2)	0.0008
$\alpha_{0,2}$	4340 (1)	0.0066 (22)
$\alpha_{0,1}$	4601 (1)	5.95 (4)
$\alpha_{0,0}$	4784.34 (25)	94.038 (40)

## 3 Electron Emissions

	Energy keV	Electrons per 100 disint.
ec <sub>1,0</sub> K	(Rn) 87.814 (13)	0.675 (11)
ec <sub>1,0</sub> L	(Rn) 168.163 - 171.600	1.280 (18)
ec <sub>1,0</sub> M	(Rn) 181.738 - 183.327	0.342 (5)
ec <sub>1,0</sub> N	(Rn) 185.120 - 185.989	0.0892 (14)

## 4 Photon Emissions

### 4.1 X-Ray Emissions

	Energy keV	Photons per 100 disint.	
XL	(Rn) 10.14 — 17.26	0.807 (14)	
XK $\alpha_2$	(Rn) 81.07	0.192 (4)	} K $\alpha$
XK $\alpha_1$	(Rn) 83.78	0.317 (6)	
XK $\beta_3$	(Rn) 94.247	}	} K $\beta'_1$
XK $\beta_1$	(Rn) 94.868	}	
XK $\beta'_5$	(Rn) 95.449	}	
XK $\beta_2$	(Rn) 97.48	}	} K $\beta'_2$
XK $\beta_4$	(Rn) 97.853	}	
XK $O_{2,3}$	(Rn) 98.357	}	

## 4.2 Gamma Transitions and Emissions

	Energy keV	$P_{\gamma+ce}$ $\times 100$	Multipolarity	$\alpha_T$	$P_\gamma$ $\times 100$
$\gamma_{1,0}(\text{Rn})$	186.211 (13)	5.962 (48)	E2	0.677 (10)	3.555 (19)
$\gamma_{2,1}(\text{Rn})$	262.27 (5)	0.0066 (22)	[E2]	0.209 (4)	0.0055 (18)
$\gamma_{3,1}(\text{Rn})$	414.60 (5)	0.0003	[E1]	0.01628 (23)	0.0003
$\gamma_{4,1}(\text{Rn})$	449.37 (10)	0.0002	[E1]	0.01373 (20)	0.0002
$\gamma_{3,0}(\text{Rn})$	600.66 (5)	0.0005	[E1]	0.00762 (11)	0.0005

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