$$^{125}_{51}\mathrm{Sb}_{74}$$

1 Decay Scheme

Sb-125 decays by beta minus emission to levels in Te-125. The percentage of disintegrations to the Te-125m ($T_{1/2}$ = 57 d) is p = 22.9 (9)%. The two gamma emission intensities with energy 35-keV and 109-keV are given for the two nuclides being in equilibrium.

L'antimoine 125 se désintègre par émissions bêta moins vers des niveaux excités de tellure 125. Les intensités des deux émissions gamma de 35 keV et 109 keV sont données pour les deux radionucléides étant à l'équilibre. Le pourcentage de désintégrations conduisant à l'isomère de Te-125 de 57 jours de période est p = 22,9 (9) %.
Le rapport au temps t des activités Te-125m/Sb-125 dans le Sb-125 initialement pur est :
$p \times [T1/(T1 - T2)] \times [1 - e^{-(\mathrm{Log}2\times[(T1-T2)/(T1\times T2)]\times t}]$
T1 et T2 étant respectivement les périodes de Sb-125 et Te-125m.
Pour t $\geq$ 1,6 a, ce qui correspond à dix fois la période de Te-125m, ce rapport est égal à :
p × [T1 / (T1-T2)] = 0,243 (10)
avec p = 0,229 (9).

2 Nuclear Data

$T_{1/2}(^{125}\mathrm{Sb})$	:	2,75855	(25)	a
$Q^-(^{125}\mathrm{Sb})$	:	766,7	(21)	keV

2.1 β^- Transitions

	Energy (keV)	Probability (%)	Nature	lg ft
$\beta^-_{0,12}$	95,3 (21)	13,58 (12)	Allowed	6,93
$\beta^-_{0,10}$	124,5 (21)	5,82 (5)	Allowed	7,66
$\beta^-_{0,9}$	130,6 (21)	18,07 (19)	Allowed	7,23
$\beta^-_{0,7}$	241,5 (21)	1,251 (12)	1st Forbidden	9,23
$\beta^-_{0,6}$	303,3 (21)	40,3 (4)	Allowed	8,04
$\beta^-_{0,5}$	323,1 (21)	0,089 (10)	2nd Forbidden	10,79
$\beta^-_{0,3}$	444,0 (21)	7,54 (9)	1st Forbidden	9,32
$\beta^-_{0,2}$	621,0 (21)	13,4 (9)	Unique 1st Forbidden	9,77

2.2 Gamma Transitions and Internal Conversion Coefficients

	Energy (keV)	$P_{\gamma+ce}$ (%)	Multipolarity	α_K	α_L	α_M	α_T
$\gamma_{6,5}$(Te)	19,80 (6)	0,248 (9)	[M1]		9,1 (3)	1,82 (5)	11,3 (3)
$\gamma_{1,0}$(Te)	35,489 (5)	88,7 (37)	M1+0,084%E2	12,1 (4)	1,64 (5)	0,329 (10)	14,3 (4)
$\gamma_{2,1}$(Te)	109,276 (15)	24,3 (9)	M4	182 (5)	135 (4)	31 (1)	355 (11)
$\gamma_{9,7}$(Te)	110,895 (12)	0,00125 (10)	[E1]	0,127 (4)	0,0165 (5)	0,00328 (11)	0,147 (4)
$\gamma_{10,7}$(Te)	116,955 (11)	0,2964 (46)	E1	0,109 (3)	0,0141 (4)	0,00281 (8)	0,127 (4)
$\gamma_{9,6}$(Te)	172,719 (8)	0,221 (10)	M1(+E2)	0,129 (4)	0,0168 (5)	0,00337 (11)	0,151 (5)
$\gamma_{3,2}$(Te)	176,314 (2)	7,96 (9)	M1+26,5%E2	0,139 (4)	0,0221 (7)	0,00449 (13)	0,167 (5)
$\gamma_{10,6}$(Te)	178,842 (5)	0,0405 (22)	M1+E2	0,147 (26)	0,026 (11)	0,0054 (21)	0,18 (4)
$\gamma_{10,5}$(Te)	198,654 (11)	0,0152 (8)	[E2]	0,123 (4)	0,0245 (8)	0,00504 (15)	0,154 (5)
$\gamma_{7,3}$(Te)	204,138 (10)	0,353 (17)	M1+72%E2	0,104 (3)	0,0189 (6)	0,00386 (11)	0,128 (4)
$\gamma_{12,6}$(Te)	208,077 (5)	0,269 (9)	M1+1,1%E2	0,0791 (24)	0,0102 (3)	0,00205 (6)	0,092 (3)
$\gamma_{12,5}$(Te)	227,891 (10)	0,142 (3)	(M1+E2)	0,070 (11)	0,011 (4)	0,0023 (6)	0,084 (13)
$\gamma_{9,3}$(Te)	314,95 (11)	0,0043 (3)	(E1)	0,00726 (22)	0,00089 (3)	0,000179 (5)	0,00839 (30)
$\gamma_{10,3}$(Te)	321,040 (4)	0,420 (4)	E1	0,00691 (21)	0,000856 (30)	0,000170 (5)	0,00798 (24)
$\gamma_{7,2}$(Te)	380,452 (8)	1,548 (15)	E2	0,0154 (5)	0,00233 (7)	0,000473 (15)	0,0183 (5)
$\gamma_{5,1}$(Te)	408,065 (10)	0,185 (2)	M1+69%E2	0,0129 (4)	0,00181 (5)	0,00036 (1)	0,0152 (5)
$\gamma_{6,1}$(Te)	427,874 (4)	29,96 (24)	M1+22,4%E2	0,0119 (4)	0,00154 (5)	0,00031 (1)	0,0138 (4)
$\gamma_{5,0}$(Te)	443,555 (9)	0,309 (4)	M1+84%E2	0,0100 (3)	0,00142 (4)	0,00029 (1)	0,0118 (4)
$\gamma_{6,0}$(Te)	463,365 (4)	10,59 (9)	E2	0,0086 (3)	0,00124 (4)	0,00025 (1)	0,0102 (3)
$\gamma_{10,2}$(Te)	497,37 (12)	0,0033 (3)	[M2]	0,0271 (8)	0,00373 (11)	0,00075 (2)	0,0318 (10)
$\gamma_{9,1}$(Te)	600,599 (2)	17,85 (18)	E2	0,00421 (13)	0,00058 (2)	0,000116 (4)	0,00498 (15)
$\gamma_{10,1}$(Te)	606,715 (3)	5,05 (5)	E2	0,00415 (13)	0,00056 (2)	0,000113 (4)	0,00485 (15)
$\gamma_{12,1}$(Te)	635,950 (3)	11,38 (10)	M1+9,9%E2	0,00455 (14)	0,00057 (2)	0,000113 (5)	0,00526 (16)
$\gamma_{12,0}$(Te)	671,443 (6)	1,790 (16)	E2	0,00319 (10)	0,00043 (1)	0,000086 (2)	0,00373 (11)

3 Atomic Data

3.1 Te

ω_K	:	0,875	(4)
$\bar{\omega}_L$	:	0,0862	(35)
n_{KL}	:	0,917	(4)

3.1.1 X Radiations

		Energy (keV)	Relative probability
X_K			
	$K\alpha_2$	27,202	53,7
	$K\alpha_1$	27,473	100
	$K\beta_3$	30,945	}
	$K\beta_1$	30,996	} 28,6
	$K\beta_5''$	31,236	}
	$K\beta_2$	31,701	}
	$K\beta_4$	31,774	} 6,2
	$KO_{2,3}$	31,812	}

3.1.2 Auger Electrons

	Energy (keV)	Relative probability
Auger K		
KLL	21,804 - 22,989	100
KLX	25,814 - 27,470	45,5
KXY	29,80 - 31,81	5,1

4 Electron Emissions

		Energy (keV)	Electrons (per 100 disint.)
e_{AL}	(Te)	2,3 - 4,8	70,6 (9)
e_{AK}	(Te)		
	KLL	21,804 - 22,989	10,5 (6)
	KLX	25,814 - 27,470	
	KXY	29,80 - 31,81	
$ec_{1,0\ T}$	(Te)	3,675 - 35,487	82,8 (35)
$ec_{1,0\ K}$	(Te)	3,675 (5)	70,1 (32)
$ec_{6,5\ L}$	(Te)	14,9 - 15,5	0,184 (8)
$ec_{6,5\ M}$	(Te)	18,8 - 19,2	0,0368 (14)
$ec_{1,0\ L}$	(Te)	30,550 - 31,148	9,5 (4)
$ec_{1,0\ M}$	(Te)	34,483 - 34,917	1,9 (1)
$ec_{2,1\ T}$	(Te)	77,462 - 109,274	24,2 (9)
$ec_{2,1\ K}$	(Te)	77,462 (15)	12,43 (41)
$ec_{10,7\ K}$	(Te)	85,141 (11)	0,0287 (9)
$ec_{2,1\ L}$	(Te)	104,337 - 104,935	9,22 (32)
$ec_{2,1\ M}$	(Te)	108,270 - 108,704	2,12 (8)
$ec_{2,1\ N}$	(Te)	109,108 - 109,236	0,451 (16)
$ec_{9,6\ K}$	(Te)	140,905 (8)	0,0248 (14)
$ec_{3,2\ T}$	(Te)	144,500 - 176,312	1,139 (36)
$ec_{3,2\ K}$	(Te)	144,500 (2)	0,948 (29)
$ec_{3,2\ L}$	(Te)	171,375 - 171,973	0,151 (5)
$ec_{7,3\ K}$	(Te)	172,32 (1)	0,0326 (18)
$ec_{3,2\ M}$	(Te)	175,308 - 175,742	0,0306 (9)
$ec_{12,6\ K}$	(Te)	176,263 (5)	0,0195 (9)
$ec_{7,2\ K}$	(Te)	348,638 (8)	0,0234 (8)
$ec_{6,1\ K}$	(Te)	396,060 (4)	0,352 (12)
$ec_{6,1\ L}$	(Te)	422,935 - 423,533	0,0455 (15)
$ec_{6,0\ K}$	(Te)	431,551 (4)	0,0901 (32)
$ec_{6,0\ L}$	(Te)	458,426 - 459,024	0,01300 (43)
$ec_{9,1\ K}$	(Te)	568,785 (2)	0,0748 (24)
$ec_{10,1\ K}$	(Te)	574,901 (3)	0,0208 (7)
$ec_{9,1\ L}$	(Te)	595,660 - 596,258	0,01030 (37)
$ec_{12,1\ K}$	(Te)	604,136 (3)	0,0515 (16)

		Energy (keV)		Electrons (per 100 disint.)
$\beta^-_{0,12}$	max:	95,3	(21)	13,58 (12)
	avg:	24,9	(6)	
$\beta^-_{0,10}$	max:	124,5	(21)	5,82 (5)
	avg:	33,0	(6)	
$\beta^-_{0,9}$	max:	130,6	(21)	18,07 (19)
	avg:	34,7	(6)	
$\beta^-_{0,7}$	max:	241,5	(21)	1,251 (12)
	avg:	67,5	(7)	
$\beta^-_{0,6}$	max:	303,3	(21)	40,3 (4)
	avg:	86,9	(7)	
$\beta^-_{0,5}$	max:	323,1	(21)	0,089 (10)
	avg:	93,3	(7)	
$\beta^-_{0,3}$	max:	444,0	(21)	7,54 (9)
	avg:	134,5	(8)	
$\beta^-_{0,2}$	max:	621,0	(21)	13,4 (9)
	avg:	215,5	(8)	

5 Photon Emissions

5.1 X-Ray Emissions

		Energy (keV)	Photons (per 100 disint.)	
XL	(Te)	3,335 - 4,823	6,56 (21)	
XKα_2	(Te)	27,202	21,0 (9)	Kα
XKα_1	(Te)	27,473	39,1 (15)	
XKβ_3	(Te)	30,945	11,2 (5)	K$'\beta_1$
XKβ_1	(Te)	30,996		
XKβ_5''	(Te)	31,236		
XKβ_2	(Te)	31,701	2,43 (12)	K$'\beta_2$
XKβ_4	(Te)	31,774		
XKO$_{2,3}$	(Te)	31,812		

5.2 Gamma Emissions

	Energy (keV)	Photons (per 100 disint.)
$\gamma_{6,5}$(Te)	19,80 (6)	0,0202 (5)
$\gamma_{1,0}$(Te)	35,489 (5)	5,79 (18)

	Energy (keV)	Photons (per 100 disint.)
$\gamma_{2,1}$(Te)	109,276 (15)	0,0683 (12)
$\gamma_{9,7}$(Te)	110,895 (12)	0,00109 (9)
$\gamma_{10,7}$(Te)	116,955 (11)	0,263 (4)
$\gamma_{9,6}$(Te)	172,719 (8)	0,192 (9)
$\gamma_{3,2}$(Te)	176,314 (2)	6,82 (7)
$\gamma_{10,6}$(Te)	178,842 (5)	0,0343 (15)
$\gamma_{10,5}$(Te)	198,654 (11)	0,0132 (7)
$\gamma_{7,3}$(Te)	204,138 (10)	0,313 (15)
$\gamma_{12,6}$(Te)	208,077 (5)	0,246 (8)
$\gamma_{12,5}$(Te)	227,891 (10)	0,131 (3)
$\gamma_{9,3}$(Te)	314,95 (11)	0,0043 (3)
$\gamma_{10,3}$(Te)	321,040 (4)	0,416 (4)
$\gamma_{7,2}$(Te)	380,452 (8)	1,520 (15)
$\gamma_{5,1}$(Te)	408,065 (10)	0,182 (2)
$\gamma_{6,1}$(Te)	427,874 (4)	29,55 (24)
$\gamma_{5,0}$(Te)	443,555 (9)	0,305 (4)
$\gamma_{6,0}$(Te)	463,365 (4)	10,48 (9)
$\gamma_{10,2}$(Te)	497,37 (12)	0,0032 (3)
$\gamma_{9,1}$(Te)	600,597 (2)	17,76 (18)
$\gamma_{10,1}$(Te)	606,713 (3)	5,02 (5)
$\gamma_{12,1}$(Te)	635,950 (3)	11,32 (10)
$\gamma_{12,0}$(Te)	671,441 (6)	1,783 (16)

6 Main Production Modes

Sn – 124(n,γ)Sn – 125m σ : 0,130 (5) barns

Sn – 125m(β^-)Sb – 125 $T_{1/2}$: 9,7 min

$\left\{\begin{array}{l}\text{Sn – 124(n,}\gamma\text{)Sn – 125} \quad \sigma : 0{,}004\ (2)\ \text{barns} \\ \text{Possible impurities: Sn – 113, Sn – 117m, Sn – 119m, Sn – 121m, Sn – 123m, Sn – 125}\end{array}\right.$

Sn – 125(β^-)Sb – 125 $T_{1/2}$: 9,5 d

$\left\{\begin{array}{l}\text{Fission product} \\ \text{Possible impurities: Sb – 121m, Sn – 125}\end{array}\right.$

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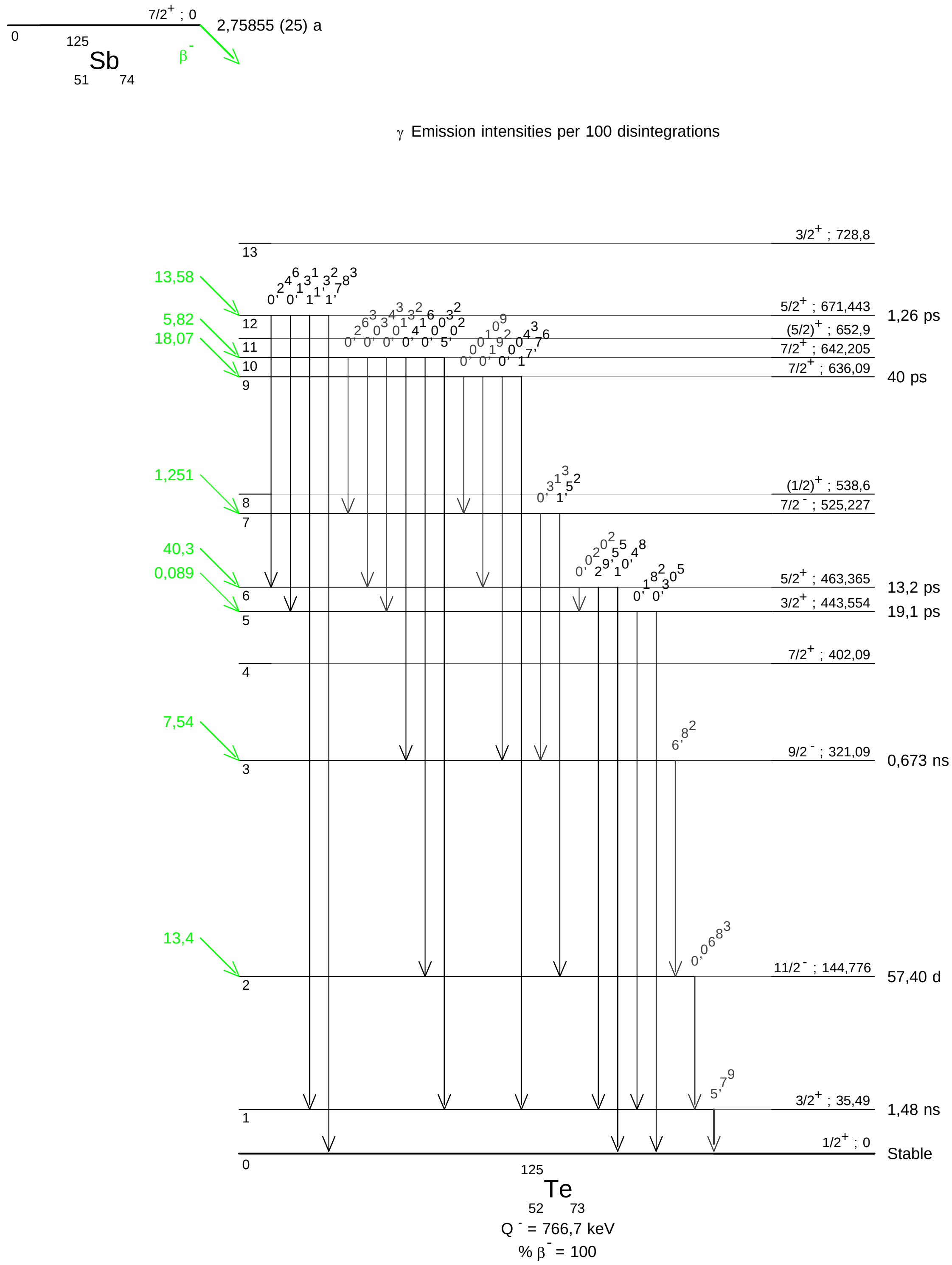
7/2+ ; 0
2,75855 (25) a
125
Sb
51 74
β-
γ Emission intensities per 100 disintegrations
3/2+ ; 728,8
5/2+ ; 671,443
(5/2)+ ; 652,9
7/2+ ; 642,205
7/2+ ; 636,09
(1/2)+ ; 538,6
7/2- ; 525,227
5/2+ ; 463,365
3/2+ ; 443,554
7/2+ ; 402,09
9/2- ; 321,09
11/2- ; 144,776
3/2+ ; 35,49
1/2+ ; 0
1,26 ps
40 ps
13,2 ps
19,1 ps
0,673 ns
57,40 d
1,48 ns
Stable
13,58
5,82
18,07
1,251
40,3
0,089
7,54
13,4
125
Te
52 73
Q- = 766,7 keV
% β- = 100