

¹¹⁹Te ε decay (4.70 d) 1977Ya03

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli		NDS 110,2945 (2009)	1-Dec-2008

Parent: ¹¹⁹Te: E=260.96 5; J^π=11/2⁻; T_{1/2}=4.70 d 4; Q(ε)=2293.0 20; %ε+%β⁺ decay=100.0

Additional information 1.

1977Ya03: ¹¹⁸Sn(α,3n) E(α)=44 MeV, chem; semi γ, γγ, γγ(θ); mag spect ce.

1975Du04: Sn(α,xn) E(α)=54 MeV, mass separation; semi, scin γ, γγ, γX(t).

1967Gr14: ¹¹⁶Sn(α,n) E<18 MeV; chem; semi, scin γ, ce, γγ, γγ(θ).

The decay scheme is that proposed by 1977Ya03, except as noted. It is similar to those proposed by 1975Du04, 1967Be04, 1967Gr14.

Others: γ(1977Be52, 1969Ga08, 1967Si14, 1967Ka22, 1963Ka04, 1960Ko12);
 ce (1969Ga08, 1967Si14, 1963Sv01, 1960Ko12, 1982Sa22);
 γγ(θ) (1982Sa22, 1967Be47, 1967Be04, 1967Si14);
 γγ (1967Gr14, 1967Ka22, 1963Ka04, 1960Ko12);
 γβ⁺ (1963Ka04);
 γce (1963Sv01);
 β⁺ (1960Ko12)

¹¹⁹Sb Levels

E(level) [†]	J ^π [‡]	T _{1/2} [‡]	Comments
0	5/2 ⁺	38.19 h 22	
270.54 4	7/2 ⁺	35 ps 10	T _{1/2} : 35 ps 10 from (2089.57γ)(270.54γ)(t) (1975Du04).
970.90 5	9/2 ⁺		
1048.42 5	7/2 ⁺		
1212.75 4	9/2 ⁺	5.2 ps 48	T _{1/2} : <10 ps from (1212.7γ)(153.5γ)(t) and (x)(1212.7γ)(t) (1975Du04).
1249.74 5	9/2 ⁺		
1366.34 4	11/2 ⁻	112 ps 15	T _{1/2} : 112 ps 15 from (153.59γ)(x)(t) and (1212.73γ)(x)(t) (1975Du04).
1407.33 7	11/2 ⁺		
2129.82 11	9/2 ⁻		
2226.06 6	11/2 ⁻		
2278.92 6	13/2 ⁻		
2283.8 4	9/2 ⁻		
2360.22 9	9/2 ⁻		
2379.55 9	(9/2,13/2)		

[†] Deduced by evaluators from a least-squares fit to γ-ray energies.

[‡] From Adopted Levels.

ε,β⁺ radiations

E(decay)	E(level)	Iβ ⁺ [†]	Iε [†]	Log ft	I(ε+β ⁺) [†]	Comments
(174.4 20)	2379.55		1.0 6	6.4 3	1.0 6	εK=0.8154; εL=0.1452 5; εM+=0.03935 16
(193.7 20)	2360.22		4.9 1	5.857 15	4.9 1	εK=0.8210; εL=0.1410 4; εM+=0.03804 13
(270.2 21)	2283.8		0.32 2	7.37 3	0.32 2	εK=0.8340; εL=0.13103 19; εM+=0.03496 6
(275.0 20)	2278.92		6.6 1	6.072 11	6.6 1	εK=0.8346; εL=0.13061 17; εM+=0.03483 6
(327.9 20)	2226.06		4.7 4	6.39 4	4.7 4	εK=0.8394; εL=0.1269; εM+=0.03370 4
(424.1 20)	2129.82		1.8 1	7.044 25	1.8 1	εK=0.8447; εL=0.1228; εM+=0.03243
(1146.6 20)	1407.33		7.0 1	7.354 8	7.0 1	εK=0.8554; εL=0.1147; εM+=0.02994
(1187.6 20)	1366.34	0.0062 5	67 3	6.404 20	67 3	av Eβ=82.9 10; εK=0.8555; εL=0.1145; εM+=0.02989
(1583.1 20)	970.90	0.0043 11	0.28 7	9.04 11	0.28 7	av Eβ=256.8 9; εK=0.8440; εL=0.1117; εM+=0.02911
(2283.4 20)	270.54	0.36 3	5.0 5	9.40 ^{1u} 4	5.4 5	av Eβ=585.9 9; εK=0.7977; εL=0.1072; εM+=0.02801

[†] Absolute intensity per 100 decays.

¹¹⁹Te ε decay (4.70 d) ¹⁹⁷⁷Ya03 (continued)

γ(¹¹⁹Sb)

I_γ normalization: from Σ Ti(to g.s.)=100.

E _γ [‡]	I _γ ^{ac}	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. ^b	δ	α [†]	Comments
116.62 6	0.68 4	1366.34	11/2 ⁻	1249.74	9/2 ⁺	E1		0.1223	α(K)exp=0.092 +27-22 α(K)=0.1057 15; α(L)=0.01341 19; α(M)=0.00263 4; α(N+..)=0.000547 8
153.59 3	100 4	1366.34	11/2 ⁻	1212.75	9/2 ⁺	E1		0.0563	α(N)=0.000500 7; α(O)=4.68×10 ⁻⁵ 7 α(K)exp=0.052 +5-4 α(K)=0.0487 7; α(L)=0.00610 9; α(M)=0.001197 17; α(N+..)=0.000250 4
164.34 5	1.96 8	1212.75	9/2 ⁺	1048.42	7/2 ⁺	M1+E2	+1.0 ^{&} +11-7	0.22 6	α(N)=0.000228 4; α(O)=2.16×10 ⁻⁵ 3 K:L1:L2:L3:M+=100 4:10.6 4:0.88 14:1.23 16:3.09 19. α(K)exp=0.144 +20-18 α(K)=0.18 4; α(L)=0.032 13; α(M)=0.007 3; α(N+..)=0.0013 6 α(N)=0.0012 5; α(O)=0.00011 4 K:L:M=100 8:13 3:2.3 4.
^x 184.11 [#] 20	0.04 2								
^x 190.54 [#] 20	0.05 2								
^x 201.17 [#] 20	0.02 1								
241.78 8	0.09 2	1212.75	9/2 ⁺	970.90	9/2 ⁺	M1(+E2)		0.065 11	α(K)exp=0.030 +19-12 α(K)=0.055 8; α(L)=0.0083 24; α(M)=0.0017 5; α(N+..)=0.00034 10 α(N)=0.00032 9; α(O)=2.9×10 ⁻⁵ 7
270.53 4	42.3 6	270.54	7/2 ⁺	0	5/2 ⁺	M1+E2	-0.118 ^{&} 16	0.0410	α(K)=0.0355 5; α(L)=0.00447 7; α(M)=0.000885 13; α(N+..)=0.000188 3 α(N)=0.0001707 25; α(O)=1.687×10 ⁻⁵ 24 K:L1:L2:L3:M+=100.0 17:11.3 3:0.61 10:0.19 3:2.97 15 (¹⁹⁷⁷ Ya03); K/L1=8.9 +8-7, L1/L2=12 +5-3 (¹⁹⁸² Sa22).
^x 369.7 [#] 3	0.05 2								
395.42 6	0.50 4	1366.34	11/2 ⁻	970.90	9/2 ⁺	E1		0.00444 7	α(K)exp=0.0037 +7-6 α=0.00444 7; α(K)=0.00386 6; α(L)=0.000469 7; α(M)=9.21×10 ⁻⁵ 13; α(N+..)=1.94×10 ⁻⁵ 3 α(N)=1.770×10 ⁻⁵ 25; α(O)=1.729×10 ⁻⁶ 25
700.33 8	0.70 8	970.90	9/2 ⁺	270.54	7/2 ⁺	M1+E2		0.0035 4	α(K)exp=0.0029 +9-7 α=0.0035 4; α(K)=0.0030 4; α(L)=0.00038 3; α(M)=7.5×10 ⁻⁵ 6; α(N+..)=1.58×10 ⁻⁵ 12 α(N)=1.44×10 ⁻⁵ 11; α(O)=1.42×10 ⁻⁶ 13
^x 760.3 [#] 5	0.07 3								
777.91 19	0.10 6	1048.42	7/2 ⁺	270.54	7/2 ⁺				α(K)exp=0.0014 +28-7

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¹¹⁹Te ϵ decay (4.70 d) 1977Ya03 (continued)

$\gamma(^{119}\text{Sb})$ (continued)

E_γ^{\ddagger}	I_γ^{ac}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^b	δ	α^\dagger	Comments
818.80 17 859.68 9	0.16 4 0.24 3	2226.06 2226.06	11/2 ⁻ 11/2 ⁻	1407.33 1366.34	11/2 ⁺ 11/2 ⁻	M1(+E2)	≤ 0.89	0.00228 11	$\alpha(\text{K})_{\text{exp}}=0.0012 +9-5$ $\alpha(\text{K})_{\text{exp}}=0.0024 +6-5$ $\alpha=0.00228 11$; $\alpha(\text{K})=0.00198 10$; $\alpha(\text{L})=0.000242$ 10 ; $\alpha(\text{M})=4.76 \times 10^{-5} 19$; $\alpha(\text{N}+..)=1.01 \times 10^{-5} 5$ $\alpha(\text{N})=9.2 \times 10^{-6} 4$; $\alpha(\text{O})=9.1 \times 10^{-7} 5$ $\delta: 0.89 \leq \text{from } \alpha(\text{K})_{\text{exp}} (1977\text{Ya}03)$.
871.46 13	0.58 5	2278.92	13/2 ⁻	1407.33	11/2 ⁺	E1		0.000756 11	$\alpha(\text{K})_{\text{exp}}=0.00049 +15-13$ $\alpha=0.000756 11$; $\alpha(\text{K})=0.000659 10$; $\alpha(\text{L})=7.82 \times 10^{-5} 11$; $\alpha(\text{M})=1.535 \times 10^{-5} 22$; $\alpha(\text{N}+..)=3.26 \times 10^{-6}$ $\alpha(\text{N})=2.96 \times 10^{-6} 5$; $\alpha(\text{O})=2.94 \times 10^{-7} 5$
912.60 5	9.44 12	2278.92	13/2 ⁻	1366.34	11/2 ⁻	M1+E2	$-0.41 \& +6-5$	0.00202 4	$\alpha(\text{K})_{\text{exp}}=0.00181 +14-13$ $\alpha=0.00202 4$; $\alpha(\text{K})=0.00176 3$; $\alpha(\text{L})=0.000213 4$; $\alpha(\text{M})=4.20 \times 10^{-5} 7$; $\alpha(\text{N}+..)=8.92 \times 10^{-6} 14$ $\alpha(\text{N})=8.11 \times 10^{-6} 13$; $\alpha(\text{O})=8.08 \times 10^{-7} 13$ K/L=7.5 +11-8. $\alpha(\text{K})_{\text{exp}}=0.0006 +9-3$
917.6 3 942.21 6	0.13 6 7.69 9	2129.82 1212.75	9/2 ⁻ 9/2 ⁺	1212.75 270.54	9/2 ⁺ 7/2 ⁺	M1+E2	$-0.72 \& +14-10$	0.00181 5	$\alpha(\text{K})_{\text{exp}}=0.00157 +12-11$ $\alpha=0.00181 5$; $\alpha(\text{K})=0.00157 4$; $\alpha(\text{L})=0.000191 4$; $\alpha(\text{M})=3.77 \times 10^{-5} 8$; $\alpha(\text{N}+..)=8.00 \times 10^{-6} 18$ $\alpha(\text{N})=7.27 \times 10^{-6} 16$; $\alpha(\text{O})=7.22 \times 10^{-7} 17$ K:L:M=100 3:10.1 14:3.4 4. $\alpha(\text{K})_{\text{exp}}=0.0007 +8-4$
952.82 15 970.91 15	0.13 6 0.35 5	2360.22 970.90	9/2 ⁻ 9/2 ⁺	1407.33 0	11/2 ⁺ 5/2 ⁺	E2		0.001457 21	$\alpha(\text{K})_{\text{exp}}=0.0007 +8-4$ $\alpha(\text{K})_{\text{exp}}=0.0011 +4-3$ $\alpha=0.001457 21$; $\alpha(\text{K})=0.001263 18$; $\alpha(\text{L})=0.0001572 22$; $\alpha(\text{M})=3.10 \times 10^{-5} 5$; $\alpha(\text{N}+..)=6.55 \times 10^{-6}$ $\alpha(\text{N})=5.97 \times 10^{-6} 9$; $\alpha(\text{O})=5.85 \times 10^{-7} 9$
972.8 976.37 7	0.15 10 4.10 10	2379.55 2226.06	(9/2,13/2) 11/2 ⁻	1407.33 1249.74	11/2 ⁺ 9/2 ⁺	E1		0.000606 9	$\alpha(\text{K})_{\text{exp}}=0.00059 +7-6$ $\alpha=0.000606 9$; $\alpha(\text{K})=0.000529 8$; $\alpha(\text{L})=6.25 \times 10^{-5}$ 9 ; $\alpha(\text{M})=1.227 \times 10^{-5} 18$; $\alpha(\text{N}+..)=2.60 \times 10^{-6} 4$ $\alpha(\text{N})=2.37 \times 10^{-6} 4$; $\alpha(\text{O})=2.35 \times 10^{-7} 4$ K/L=9.5 +89-33.
979.29 7	4.55 11	1249.74	9/2 ⁺	270.54	7/2 ⁺	M1+E2	$-0.38 \& +11-8$	0.00173 4	$\alpha(\text{K})_{\text{exp}}=0.00164 +14-13$ $\alpha=0.00173 4$; $\alpha(\text{K})=0.00150 3$; $\alpha(\text{L})=0.000182 4$; $\alpha(\text{M})=3.58 \times 10^{-5} 7$; $\alpha(\text{N}+..)=7.61 \times 10^{-6} 14$ $\alpha(\text{N})=6.92 \times 10^{-6} 12$; $\alpha(\text{O})=6.90 \times 10^{-7} 13$ K:L:M=100 3:13.5 18:3.5 13.
1013.20 ^d 8	2.5 ^d 5	2226.06	11/2 ⁻	1212.75	9/2 ⁺				$\alpha(\text{K})_{\text{exp}}=0.00076 7$ K/L=17 +9-5.

¹¹⁹Te ϵ decay (4.70 d) 1977Ya03 (continued)

$\gamma(^{119}\text{Sb})$ (continued)

E_γ [‡]	I_γ ^{ac}	E_i (level)	J_i^π	E_f	J_f^π	Mult. ^b	δ	α^\dagger	Comments
1013.20 ^d 8	1.3 ^d 9	2379.55	(9/2,13/2)	1366.34	11/2 ⁻				E_γ : doublet. The possibility of a single transition with mult=E1+M2 is excluded from inconsistency between the $\alpha(K)\text{exp}$ and $\gamma\gamma(\theta)$ results. I_γ : divided from $I_\gamma=3.78$ 8 based on the $\alpha(K)\text{exp}$ and the assumed mult of E1. I_γ : divided from $I_\gamma=3.78$ 8 based on the $\alpha(K)\text{exp}$ and the assumed mult of M1+E2.
1048.44 6	4.82 7	1048.42	7/2 ⁺	0	5/2 ⁺	M1(+E2)	≤ 0.97	0.00145 8	$\alpha(K)\text{exp}=0.00130$ +11-10 $\alpha=0.00145$ 8; $\alpha(K)=0.00126$ 7; $\alpha(L)=0.000152$ 7; $\alpha(M)=3.00\times 10^{-5}$ 14; $\alpha(N+..)=6.4\times 10^{-6}$ 3 $\alpha(N)=5.8\times 10^{-6}$ 3; $\alpha(O)=5.8\times 10^{-7}$ 3 K:L:M=100 3:8.9 10:2.6 10. δ : 0.97 \leq from $\alpha(K)\text{exp}$ (1977Ya03).
^x 1066.3 [@] 3 1081.35 10	0.15 5 2.41 5	2129.82	9/2 ⁻	1048.42	7/2 ⁺	E1		0.000500 7	$\alpha(K)\text{exp}=0.00046$ +6-5 $\alpha=0.000500$ 7; $\alpha(K)=0.000436$ 7; $\alpha(L)=5.14\times 10^{-5}$ 8; $\alpha(M)=1.009\times 10^{-5}$ 15; $\alpha(N+..)=2.14\times 10^{-6}$ 3 $\alpha(N)=1.95\times 10^{-6}$ 3; $\alpha(O)=1.94\times 10^{-7}$ 3 K/L=33 +28-10.
1095.75 10	3.38 4	1366.34	11/2 ⁻	270.54	7/2 ⁺	M2(+E3)	+0.12 8	0.00326 6	$\alpha(K)\text{exp}=0.00296$ +20-19 $\alpha=0.00326$ 6; $\alpha(K)=0.00282$ 5; $\alpha(L)=0.000353$ 6; $\alpha(M)=6.98\times 10^{-5}$ 11; $\alpha(N+..)=1.483\times 10^{-5}$ 23 $\alpha(N)=1.349\times 10^{-5}$ 21; $\alpha(O)=1.342\times 10^{-6}$ 21 K:L:M=100 2:14.6 9:3.0 6. δ : +0.12 8 from weighted av of 0.13 11 from $\gamma\gamma(\theta)$ and 0.10 +11-10 from $\alpha(K)\text{exp}$ (1977Ya03).
1111.2 8 1136.75 7	0.017 14 11.57 10	2360.22 1407.33	9/2 ⁻ 11/2 ⁺	1249.74 270.54	9/2 ⁺ 7/2 ⁺	E2		0.001036 15	$\alpha(K)\text{exp}=0.0005$ +24-8 $\alpha(K)\text{exp}=0.00092$ 6 $\alpha=0.001036$ 15; $\alpha(K)=0.000898$ 13; $\alpha(L)=0.0001101$ 16; $\alpha(M)=2.17\times 10^{-5}$ 3; $\alpha(N+..)=6.15\times 10^{-6}$ 6 $\alpha(N)=4.18\times 10^{-6}$ 6; $\alpha(O)=4.12\times 10^{-7}$ 6; $\alpha(\text{IPF})=1.553\times 10^{-6}$ 22 K:L:M=100 3:11.0 15:2.4 6.
1212.73 7	100	1212.75	9/2 ⁺	0	5/2 ⁺	E2		0.000911 13	$\alpha(K)\text{exp}=0.00082$ 4 $\alpha=0.000911$ 13; $\alpha(K)=0.000784$ 11; $\alpha(L)=9.57\times 10^{-5}$ 14; $\alpha(M)=1.88\times 10^{-5}$ 3; $\alpha(N+..)=1.244\times 10^{-5}$ 1 $\alpha(N)=3.63\times 10^{-6}$ 5; $\alpha(O)=3.59\times 10^{-7}$ 5; $\alpha(\text{IPF})=8.44\times 10^{-6}$ 12 K:L:M=100.0 17:12.3 5:2.93 11.
1249.65 17	0.262 19	1249.74	9/2 ⁺	0	5/2 ⁺	(E2)		0.00095 9	$\alpha(K)\text{exp}=0.00089$ +18-15 $\alpha=0.00095$ 9; $\alpha(K)=0.00082$ 8; $\alpha(L)=9.9\times 10^{-5}$ 9; $\alpha(M)=1.94\times 10^{-5}$ 18; $\alpha(N+..)=1.73\times 10^{-5}$ 5

¹¹⁹Te ε decay (4.70 d) **1977Ya03** (continued)

γ(¹¹⁹Sb) (continued)

E_γ [‡]	I_γ ^{ac}	E_i (level)	J_i^π	E_f	J_f^π	Mult. ^b	δ	α [†]	Comments
1255.64 24 1312.01 17	0.023 12 0.185 21	2226.06 2360.22	11/2 ⁻ 9/2 ⁻	970.90 1048.42	9/2 ⁺ 7/2 ⁺	E1		0.000447 7	$\alpha(N)=3.7\times 10^{-6}$ 4; $\alpha(O)=3.7\times 10^{-7}$ 4; $\alpha(IPF)=1.32\times 10^{-5}$ 8 $\alpha(K)_{exp}=0.0006$ +13-3 $\alpha(K)_{exp}=0.00021$ +11-9 $\alpha=0.000447$ 7; $\alpha(K)=0.000308$ 5; $\alpha(L)=3.62\times 10^{-5}$ 5; $\alpha(M)=7.09\times 10^{-6}$ 10; $\alpha(N+..)=9.59\times 10^{-5}$ 14 $\alpha(N)=1.370\times 10^{-6}$ 20; $\alpha(O)=1.365\times 10^{-7}$ 20; $\alpha(IPF)=9.44\times 10^{-5}$ 14
1366.39 14	1.61 3	1366.34	11/2 ⁻	0	5/2 ⁺	E3		0.001360 19	$\alpha(K)_{exp}=0.00111$ 9 $\alpha=0.001360$ 19; $\alpha(K)=0.001163$ 17; $\alpha(L)=0.0001484$ 21; $\alpha(M)=2.94\times 10^{-5}$ 5; $\alpha(N+..)=1.92\times 10^{-5}$ $\alpha(N)=5.65\times 10^{-6}$ 8; $\alpha(O)=5.53\times 10^{-7}$ 8; $\alpha(IPF)=1.296\times 10^{-5}$ 19 K/L=7.2 +33-18.
^x 1391.9	0.05 1								
^x 1407.43 @ 15	0.20 10								
^x 1700.8	0.03 1								
1859.0 5	0.21 6	2129.82	9/2 ⁻	270.54	7/2 ⁺				$\alpha(K)_{exp}=0.00026$ +23-13
1955.45 # 20 2013.2 4	<0.04 0.48 3	2226.06 2283.8	11/2 ⁻ 9/2 ⁻	270.54 270.54	7/2 ⁺ 7/2 ⁺	E1		0.000786 11	$\alpha(K)_{exp}=0.00014$ 3 $\alpha=0.000786$ 11; $\alpha(K)=0.0001524$ 22; $\alpha(L)=1.773\times 10^{-5}$ 25; $\alpha(M)=3.47\times 10^{-6}$ 5; $\alpha(N+..)=0.000612$ $\alpha(N)=6.71\times 10^{-7}$ 10; $\alpha(O)=6.71\times 10^{-8}$ 10; $\alpha(IPF)=0.000612$ 9
2089.57 12	7.08 8	2360.22	9/2 ⁻	270.54	7/2 ⁺	E1(+M2)	+0.01 6	0.000830 12	$\alpha(K)_{exp}=0.000139$ +16-15 $\alpha=0.000830$ 12; $\alpha(K)=0.000144$ 3; $\alpha(L)=1.67\times 10^{-5}$ 4; $\alpha(M)=3.28\times 10^{-6}$ 7; $\alpha(N+..)=0.000666$ 10 $\alpha(N)=6.34\times 10^{-7}$ 14; $\alpha(O)=6.34\times 10^{-8}$ 14; $\alpha(IPF)=0.000665$ 10 K/L=6.7 +16-8. δ : +0.01 6 from $\gamma\gamma(\theta)$ (1977Ya02).
^x 2126.3 @ 4	0.04 2								
^x 2225.6 # 4	<0.04								
^x 2242.0	0.01 1								
^x 2360.4 @ 2	<0.1								

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[†] Additional information 2.

E_γ : assigned as 2089γ-270γ sum peak by 1977Ya03.
However, no 2013γ-270γ sum peak is visible in the spectrum of 1977Ya03 which may indicate that part of the 2360 peak is due to a 2360γ.

$\gamma(^{119}\text{Sb})$ (continued)

‡ From ce data of 1977Ya03, except as noted.

From 1975Du04.

@ From 1975Du04. Assigned as double-escape or sum peak in 1977Ya03.

& Value recommended in 1980Kr22.

^a Relative to I(153.59 γ)=100.

^b From $\alpha(\text{K})_{\text{exp}}$ and ce ratios. The $\alpha(\text{K})_{\text{exp}}$ are based on relative I γ and I $\text{ce}(\text{K})$ intensities normalized to $\alpha(\text{K})(270.53\gamma)=0.0358$, which is the theoretical value based on the multipolarity from the experimental L-subshell ratio.

^c For absolute intensity per 100 decays, multiply by 0.661 3.

^d Multiply placed with intensity suitably divided.

^x γ ray not placed in level scheme.

^{119}Te ϵ decay (4.70 d) 1977Ya03

Decay Scheme

Legend

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
- Coincidence

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
 @ Multiply placed: intensity suitably divided

