

^{134}La ε decay (6.45 min) 1973MeZN,1976Gr11

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 103, 1 (2004)	31-Jul-2004

Parent: ^{134}La : E=0.0; $J^\pi=1^+$; $T_{1/2}=6.45$ min 16; $Q(\varepsilon)=3731$ 20; $\% \varepsilon + \% \beta^+$ decay=100.0

 ^{134}Ba Levels

The decay scheme is based mainly on $\gamma\gamma$ -coincidence data. Others: 1973Al20, 1976Me21, 1987PaZS.

E(level)	$J^\pi^\dagger$	$T_{1/2}$	E(level)	$J^\pi^\dagger$	E(level)	$J^\pi^\dagger$
0.0	0^+	stable	2570.87 3	$1^{(+)}$	3068.85? 13	$1,2^+$
604.7222 19	2^+		2599.87 4	2^+	3074.73? 13	(2)
1167.970 4	2^+		2656.23 8	(2^+)	3086.75 11	$1^+, 2^+$
1400.589 5	4^+		2696.58 5	$1,2$	3160.08 15	$1,2^+$
1643.336 4	3^+		2729.23 4	$1,2^+$	3216.3? 6	$1,2^+$
1760.555 22	0^+		2747.965 24	2^+	3245.88 19	(1^+)
2029.241 18	2^+		2758.9? 3	$1,2^+$	3272.10 5	$1^-, 2^-$
2088.288 17	2^+		2760.74 12	$1,2$	3327.25 13	(1^+)
2159.685 21	$(0)^+$		2828.50 4	$1^+, 2^+$	3368.97 6	$1,2$
2254.95 14	3^-		2851.26 6	2^+	3408.75 17	$1,2$
2334.76 6	$1,2^+$		2887.04 4	$1,2$	3432.15? 10	$1,2^+$
2336.82 3	0^+		2917.61 6	2	3450.27 8	(1^+)
2379.114 18	0^+		2938.93 20	1^+	3471.1? 3	$1,2^+$
2488.676 23	0^+		3004.41 15	$1,2^+$	3499.68 14	$(1,2)$
2536.91 5	0 to 2		3027.39 6	(1^+)	3548.5 4	$1,2^+$
2564.715 19	$1^+, 2^+$		3061.29 6	$2^{(+)}$	3652.1? 5	$1,2^+$

† From Adopted Levels.

 ε, β^+ radiations

$\% \varepsilon = 37.7$ 18, $\% \beta^+ = 62.3$ 18 (1976Gr11).
 $\varepsilon(K)/\beta^+ = 0.44$ 3 (1965Bi12), 0.52 4 (1976Gr11).

E(decay)	E(level)	$I\varepsilon^\dagger$	Log ft	$I(\varepsilon + \beta^+)^\dagger$
(79 20)	3652.1?	0.000023 11	7.3 5	0.000023 11
(183 20)	3548.5	0.000101 17	7.61 15	0.000101 17
(231 20)	3499.68	0.00041 5	7.25 11	0.00041 5
(260 20)	3471.1?	0.00024 4	7.59 11	0.00024 4
(281 20)	3450.27	0.00064 10	7.24 10	0.00064 10
(299 20)	3432.15?	0.00022 6	7.77 14	0.00022 6
(322 20)	3408.75	0.0029 4	6.72 9	0.0029 4
(362 20)	3368.97	0.0033 5	6.78 9	0.0033 5
(404 20)	3327.25	0.00135 20	7.27 9	0.00135 20
(459 20)	3272.10	0.0048 4	6.84 6	0.0048 4
(485 20)	3245.88	0.00019 4	8.29 10	0.00019 4
(515 20)	3216.3?	0.00040 16	8.03 18	0.00040 16
(571 20)	3160.08	0.00051 4	8.02 5	0.00051 4
(644 20)	3086.75	0.0015 3	7.66 10	0.0015 3
(656 20)	3074.73?	0.0028 6	7.40 10	0.0028 6
(662 20)	3068.85?	0.0014 4	7.71 13	0.0014 4
(670 20)	3061.29	0.00312 20	7.38 4	0.00312 20

Continued on next page (footnotes at end of table)

^{134}La ε decay (6.45 min) **1973MeZN,1976Gr11** (continued) ε, β^+ radiations (continued)

E(decay)	E(level)	$I\beta^+{}^\dagger$	$I\varepsilon^\dagger$	Log ft	$I(\varepsilon + \beta^+)^\dagger$	Comments
(704 20)	3027.39		0.00055 4	8.17 5	0.00055 4	
(727 20)	3004.41		0.00171 21	7.71 6	0.00171 21	
(792 20)	2938.93		0.0028 2	7.57 4	0.0028 2	
(813 20)	2917.61		0.0051 6	7.34 6	0.0051 6	
(844 20)	2887.04		0.0175 9	6.84 4	0.0175 9	
(880 20)	2851.26		0.0048 3	7.44 4	0.0048 3	
(903 20)	2828.50		0.0227 10	6.78 3	0.0227 10	
(970 20)	2760.74		0.0045 3	7.55 4	0.0045 3	
(972 20)	2758.9?		0.00042 4	8.58 5	0.00042 4	
(983 20)	2747.965		0.0443 20	6.57 3	0.0443 20	
(1002 20)	2729.23		0.0319 12	6.73 3	0.0319 12	
(1034 20)	2696.58		0.0154 7	7.07 3	0.0154 7	
(1075 20)	2656.23		0.0101 11	7.29 6	0.0101 11	
(1131 20)	2599.87		0.093 4	6.37 3	0.093 4	
(1160 20)	2570.87		0.0325 14	6.85 3	0.0325 14	
(1166 20)	2564.715		0.137 6	6.23 3	0.137 6	
(1194 20)	2536.91		0.0076 5	7.51 4	0.0076 5	
(1242 20)	2488.676		0.086 4	6.49 3	0.086 4	
(1352 20)	2379.114	0.00019 5	0.168 7	6.277 25	0.168 7	av $E\beta$ =158.6
(1394 20)	2336.82	0.00047 11	0.254 10	6.125 24	0.254 10	av $E\beta$ =177.2
(1396 20)	2334.76	3.0×10^{-5} 8	0.0159 12	7.33 4	0.0159 12	av $E\beta$ =178.1
(1476 20)	2254.95	$<3. \times 10^{-6}$	<0.0008	>8.7	<0.0008	av $E\beta$ =213.3
(1571 20)	2159.685	0.0036 6	0.416 17	6.016 24	0.420 17	av $E\beta$ =255.0
(1643 20)	2088.288	0.0030 4	0.216 9	6.340 24	0.219 9	av $E\beta$ =286.1
(1702 20)	2029.241	0.0041 5	0.212 8	6.380 23	0.216 8	av $E\beta$ =311.9
(1970 20)	1760.555	0.00209 19	0.0324 18	7.32 3	0.0345 19	av $E\beta$ =429.6
(2563 20)	1167.970	0.019 2	0.057 7	7.31 6	0.076 9	av $E\beta$ =692.4
(3126 20)	604.7222	1.56 8	1.78 9	5.99 3	3.34 16	av $E\beta$ =946.9
(3731 20)	0.0	62.0 5	32.7 5	4.883 16	94.71 21	av $E\beta$ =1224.4 $E\beta$ =2670 30 (1973Al20), 2750 50 (1965Bi12).

 † Absolute intensity per 100 decays. $\gamma(^{134}\text{Ba})$ I γ normalization: From I γ (604.7)=5.04% 17 (1976Gr11).I($\gamma^\pm$)=2390 100, I(K x ray)=576 40. $\alpha(\text{K})_{\text{exp}}=\text{ce}(\text{K})/\text{I}\gamma$ normalized to $\alpha(\text{K})(604.7)=0.00503$ (E2 1968Ha53). ce(K): from 1973Al20.

$E_\gamma{}^\dagger$	$I_\gamma{}^\ddagger a$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α^b	Comments
475.365 2	0.11 3	1643.336	3 ⁺	1167.970	2 ⁺			
563.246 5	7.18 12	1167.970	2 ⁺	604.7222	2 ⁺	M1+E2		
592.58 3	0.34 2	1760.555	0 ⁺	1167.970	2 ⁺			
604.721 2	100 2	604.7222	2 ⁺	0.0	0 ⁺	[E2]	0.00599	$\alpha(\text{K})=0.00503$; $\alpha(\text{L})=0.00072$
659.85 9	0.051 5	2747.965	2 ⁺	2088.288	2 ⁺			
718.71 3	0.239 15	2747.965	2 ⁺	2029.241	2 ⁺			
795.864 4	0.169 10	1400.589	4 ⁺	604.7222	2 ⁺			
*832.0 @ 3	0.09 2							
854.1 @ e 3	<0.01	2254.95	3 ⁻	1400.589	4 ⁺			
861.29 5	0.065 16	2029.241	2 ⁺	1167.970	2 ⁺			

Continued on next page (footnotes at end of table)

^{134}La ε decay (6.45 min) **1973MeZN,1976Gr11** (continued) $\gamma(^{134}\text{Ba})$ (continued)

E_γ ^{$\dagger$}	I_γ ^{$\ddagger a$}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α^b	Comments
920.352 ²³	0.376 ¹²	2088.288	2 ⁺	1167.970	2 ⁺			
^x 973.32 ^{@ 6}	0.14 ¹							
991.73 ⁴	0.15 ³	2159.685	(0) ⁺	1167.970	2 ⁺	[E2]		
^x 1014.5 ^{@ 5}	0.011 ⁵							
1017.3 ^{@ 2}	0.011 ⁵	3272.10	1 ⁻ ,2 ⁻	2254.95	3 ⁻			
1038.610 ⁷	0.093 ¹⁸	1643.336	3 ⁺	604.7222	2 ⁺			
^x 1046.4 ^{@ 5}	0.025 ⁹							
^x 1070.1 ^{@ 5}	0.02 ¹							
^x 1083.7 ^{@ 7}	0.003 ¹							
1087.8 ^{@ 3}	0.014 ⁷	2254.95	3 ⁻	1167.970	2 ⁺			
1104.5 ^{@ 5}	0.054 ¹²	2747.965	2 ⁺	1643.336	3 ⁺			
1114.3 ^{@ 6}	0.040 ⁹	3368.97	1,2	2254.95	3 ⁻			
1155.83 ³	0.360 ¹⁸	1760.555	0 ⁺	604.7222	2 ⁺	E2&	0.00134	$\alpha(K)=0.00115$; $\alpha(L)=0.00015$
1167.968 ⁵	1.57 ⁵	1167.970	2 ⁺	0.0	0 ⁺	E2&	0.00131	$\alpha(K)=0.00112$; $\alpha(L)=0.00014$ $\alpha(K)\text{exp: average for } 1168.0\gamma \text{ and } 1168.6\gamma.$
1168.63 ⁸	0.39 ⁵	2336.82	0 ⁺	1167.970	2 ⁺	E2&	0.00131	$\alpha(K)=0.00112$; $\alpha(L)=0.00014$ $\alpha(K)\text{exp: average for } 1168.0\gamma \text{ and } 1168.6\gamma.$
^x 1181.3 ^{@ 5}	0.005 ⁴							
1184.92 ¹²	0.035 ⁴	2828.50	1 ⁺ ,2 ⁺	1643.336	3 ⁺			
1211.154 ²²	2.37 ⁵	2379.114	0 ⁺	1167.970	2 ⁺	E2&	0.00122	$\alpha(K)=0.00104$; $\alpha(L)=0.00013$
1243.84 ^{c 21}	0.044 ^{c 9}	2887.04	1,2	1643.336	3 ⁺			
1243.84 ^{ce 21}	0.044 ^{c 9}	3004.41	1,2 ⁺	1760.555	0 ⁺			
1255.1 ^{e 3}	0.028 ³	2656.23	(2 ⁺)	1400.589	4 ⁺			
^x 1260.1 ^{e 6}	0.029 ¹²							
1307.0 ⁷	0.015 ⁷	3068.85?	1,2 ⁺	1760.555	0 ⁺			
1320.707 ²³	1.64 ⁴	2488.676	0 ⁺	1167.970	2 ⁺	E2&	0.00102	$\alpha(K)=0.00087$; $\alpha(L)=0.00011$
^x 1331.8 ^{@ 3}	0.026 ⁹							
1347.34 ⁵	0.100 ⁶	2747.965	2 ⁺	1400.589	4 ⁺			
1368.96 ⁷	0.066 ⁵	2536.91	0 to 2	1167.970	2 ⁺			
^x 1373.5 ^{@e 5}	0.0005 ²							
1396.730 ²²	0.71 ²	2564.715	1 ⁺ ,2 ⁺	1167.970	2 ⁺	M1,E2		
1402.89 ⁴	0.210 ⁸	2570.87	1 ⁽⁺⁾	1167.970	2 ⁺			
1424.511 ²⁴	3.68 ⁶	2029.241	2 ⁺	604.7222	2 ⁺	M1+E2		
1431.35 ^{ce 13}	0.044 ^{c 9}	2599.87	2 ⁺	1167.970	2 ⁺			
1431.35 ^{c 13}	0.044 ^{c 9}	3074.73?	(2)	1643.336	3 ⁺			
1483.52 ³	2.88 ⁶	2088.288	2 ⁺	604.7222	2 ⁺	M1+E2		
1488.3 ³	0.072 ¹⁸	2656.23	(2 ⁺)	1167.970	2 ⁺			
^x 1499.3 ^{@e 3}	0.015 ⁹							
1517.09 ^{@ 15}	0.033 ⁹	2917.61	2	1400.589	4 ⁺			
1528.54 ⁷	0.052 ⁴	2696.58	1,2	1167.970	2 ⁺			
1554.946 ²⁴	8.18 ¹⁵	2159.685	(0) ⁺	604.7222	2 ⁺	E2&		
1561.4 ^{@ 4}	0.025 ³	2729.23	1,2 ⁺	1167.970	2 ⁺			
1579.92 ¹⁵	0.120 ¹⁰	2747.965	2 ⁺	1167.970	2 ⁺			
1591.1 ^{e 11}	0.018 ⁶	2758.9?	1,2 ⁺	1167.970	2 ⁺			
1649.97 ^{@ 23}	0.021 ³	2254.95	3 ⁻	604.7222	2 ⁺			
1660.57 ^{d 7}	0.058 ^{d 5}	2828.50	1 ⁺ ,2 ⁺	1167.970	2 ⁺			
1660.57 ^{de 7}	<0.058 ^d	3061.29	2 ⁽⁺⁾	1400.589	4 ⁺			

Continued on next page (footnotes at end of table)

^{134}La ε decay (6.45 min) **1973MeZN,1976Gr11** (continued) $\gamma(^{134}\text{Ba})$ (continued)

E_γ †	I_γ ‡a	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	Comments
1674.6 5	0.012 5	3074.73?	(2)	1400.589	4+		
1683.33 7	0.062 4	2851.26	2+	1167.970	2+		
1719.05 6	0.132 8	2887.04	1,2	1167.970	2+		
^x 1730.05@ 7	0.28 2						
1730.05@ 7	0.28 2	2334.76	1,2+	604.7222	2+		
1732.12 3	4.65 9	2336.82	0+	604.7222	2+	E2&	
1749.41 13	0.027 3	2917.61	2	1167.970	2+		
1759.9# 7		1760.555	0+	0.0	0+	E0	$I_\gamma < 0.08$, $\alpha(\text{K})_{\text{exp}} > 0.1$.
1765.71 22	0.042 7	3408.75	1,2	1643.336	3+		
1774.35 3	0.96 3	2379.114	0+	604.7222	2+	E2&	
^x 1800.8 ^e 5	0.013 6						
1836.43 15	0.034 4	3004.41	1,2+	1167.970	2+		
1859.43 ^e 6		3027.39	(1+)	1167.970	2+		E_γ : γ not observed in (γ, γ') and $(n, n'\gamma)$ experiments.
1883.74 12	0.067 5	2488.676	0+	604.7222	2+		
^x 1890.8@ 6	0.0012 8						
1893.35@ 9	0.048 3	3061.29	2(+)	1167.970	2+		
1918.0 5	0.014 4	3086.75	1+, 2+	1167.970	2+		
1932.16 6	0.084 6	2536.91	0 to 2	604.7222	2+		
1959.95 4	1.90 4	2564.715	1+, 2+	604.7222	2+	M1, E2	
1966.09 11	0.073 10	2570.87	1(+)	604.7222	2+		
1995.14 4	1.78 4	2599.87	2+	604.7222	2+	M1+E2	
2029.19 4	0.770 16	2029.241	2+	0.0	0+	E2&	
^x 2040.0@ 5	0.0004 1						
2051.51 9	0.120 10	2656.23	(2+)	604.7222	2+		
^x 2064.4 ^e 5	0.012 4						
2088.26 4	1.15 3	2088.288	2+	0.0	0+		
2091.98 9	0.193 8	2696.58	1,2	604.7222	2+		
2104.09 6	0.063 4	3272.10	1-, 2-	1167.970	2+		
2124.49 4	0.608 10	2729.23	1,2+	604.7222	2+		
2143.24 5	0.314 10	2747.965	2+	604.7222	2+	M1+E2	
2156.00 12	0.089 4	2760.74	1,2	604.7222	2+		
2159.5 ^{de} 5	$\leq 0.009^d$	2159.685	(0)+	0.0	0+		
2159.5 ^d 5	0.009 ^d 3	3327.25	(1+)	1167.970	2+		
2223.77 4	0.357 10	2828.50	1+, 2+	604.7222	2+	M1, E2	
2240.4 6	0.010 3	3408.75	1,2	1167.970	2+		
2246.7 4	0.011 2	2851.26	2+	604.7222	2+		
2282.30 5	0.171 6	2887.04	1,2	604.7222	2+		
2312.91 7	0.0420 22	2917.61	2	604.7222	2+		
^x 2329.0@ ^e 9	≤ 0.004						
2334.7 ^e 4	0.035 4	2938.93	1+	604.7222	2+		
2334.71@ 9	0.035 4	2334.76	1,2+	0.0	0+		
2335# 3		2336.82	0+	0.0	0+	E0	$I_\gamma < 0.035$, $\alpha(\text{K})_{\text{exp}} > 0.003$.
^x 2345.56 21	0.013 3						
2379.6# 15		2379.114	0+	0.0	0+	E0	$I_\gamma < 0.008$, $\alpha(\text{K})_{\text{exp}} > 0.12$.
^x 2442.68 26	0.0085 13						
2456.2@ 5	0.003 1	3061.29	2(+)	604.7222	2+		
2464.15 13	0.0125 22	3068.85?	1,2+	604.7222	2+		
2482.24 17	0.010 3	3086.75	1+, 2+	604.7222	2+		
2487.0# 15		2488.676	0+	0.0	0+	E0	$I_\gamma < 0.018$, $\alpha(\text{K})_{\text{exp}} > 0.025$.
2564.84 7	0.106 7	2564.715	1+, 2+	0.0	0+		$\alpha(\text{K})_{\text{exp}}$: average for 2564 γ and 2570 γ

Continued on next page (footnotes at end of table)

^{134}La ε decay (6.45 min) **1973MeZN,1976Gr11** (continued) $\gamma(^{134}\text{Ba})$ (continued)

E_γ †	I_γ ‡a	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
						consistent with E1, M1, or E2 for either or both transitions. Placement requires $\Delta\pi=\text{no}$.
2570.85 5	0.361 10	2570.87	1(⁺)	0.0	0⁺	$\alpha(\text{K})_{\text{exp}}$: average for 2564 γ and 2570 γ consistent with E1, M1 or E2 for either or both transitions.
2599.84 6	0.061 9	2599.87	2⁺	0.0	0⁺	
2612.3 @ 9	0.0009 4	3216.3?	1,2⁺	604.7222	2⁺	
²652.4 @ 3	0.002 1					
2656.11 18	0.0089 12	2656.23	(2⁺)	0.0	0⁺	
2667.37 9	0.0220 14	3272.10	1⁻,2⁻	604.7222	2⁺	
2696.52 7	0.060 3	2696.58	1,2	0.0	0⁺	
2722.5 3	0.0077 9	3327.25	(1⁺)	604.7222	2⁺	
2729 ^e	<0.06	2729.23	1,2⁺	0.0	0⁺	
2748.1 @ 5	0.00033 7	2747.965	2⁺	0.0	0⁺	
2758.9 3	0.0083 6	2758.9?	1,2⁺	0.0	0⁺	
2764.22 @ 6	0.024 1	3368.97	1,2	604.7222	2⁺	
²788.72 21	0.004 2					
2803.5 3	0.0054 6	3408.75	1,2	604.7222	2⁺	
²816.8 @ 4	0.0025 8					
²824.08 25	0.006 1					
2827.4 @ 1	0.004 1	3432.15?	1,2⁺	604.7222	2⁺	
2828.1 3	0.0007 2	2828.50	1⁺,2⁺	0.0	0⁺	
2845.6 @ 5	0.002 1	3450.27	(1⁺)	604.7222	2⁺	
2851.05 12	0.022 1	2851.26	2⁺	0.0	0⁺	
2866.4 @ 3	0.0045 6	3471.1?	1,2⁺	604.7222	2⁺	
2894.92 14	0.0082 8	3499.68	(1,2)	604.7222	2⁺	
²899.7 @ 6	0.0011 5					
²923.6 @ 6	0.0011 4					
2938.9 2	0.055 3	2938.93	1⁺	0.0	0⁺	
2943.3 @ 8	0.0014 3	3548.5	1,2⁺	604.7222	2⁺	
²951.8 @ 7	0.0012 6					
3027.11 18	0.0110 7	3027.39	(1⁺)	0.0	0⁺	
3047.4 @ 5	0.0004 2	3652.1?	1,2⁺	604.7222	2⁺	
²3055.2 @ 5	0.0009 2					
3061.23 @ 8	0.0109 10	3061.29	2(⁺)	0.0	0⁺	
3086.59 15	0.0059 9	3086.75	1⁺,2⁺	0.0	0⁺	
3160.04 15	0.0102 7	3160.08	1,2⁺	0.0	0⁺	
3215.7 @ 8	0.007 3	3216.3?	1,2⁺	0.0	0⁺	
3245.84 19	0.0037 8	3245.88	(1⁺)	0.0	0⁺	
3327.18 15	0.010 2	3327.25	(1⁺)	0.0	0⁺	
3368.8 @ 6	0.0006 2	3368.97	1,2	0.0	0⁺	
3432.1 @ 7	0.0004 1	3432.15?	1,2⁺	0.0	0⁺	
3450.22 @ 8	0.0107 16	3450.27	(1⁺)	0.0	0⁺	
3471.0 @ 5	0.0002 1	3471.1?	1,2⁺	0.0	0⁺	
²3509.4 @ 10	0.0003 1					
3548.5 @ 4	0.0006 1	3548.5	1,2⁺	0.0	0⁺	
²3590.0 @ ^e 9	0.0003 2					
3652.0 @ 10	0.00005 4	3652.1?	1,2⁺	0.0	0⁺	

Continued on next page (footnotes at end of table)

 ^{134}La ε decay (6.45 min) [1973MeZN](#), [1976Gr11](#) (continued)

 $\gamma(^{134}\text{Ba})$ (continued)

[†] Averaged from [1976Gr11](#) and [1980VyZZ](#), except as noted.

[‡] Averaged from [1980VyZZ](#), [1976Gr11](#), and [1973MeZN](#).

Only conversion electrons observed.

@ From [1973MeZN](#).

& M1,E2 from $\alpha(\text{K})_{\text{exp}}$. M1 ruled out from placement in level scheme.

^a For absolute intensity per 100 decays, multiply by 0.0504 17.

^b Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

^c Multiply placed with undivided intensity.

^d Multiply placed with intensity suitably divided.

^e Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

$^{134}_{57}\text{La}$ ϵ decay (6.45 min) 1973MeZN,1976Gr11

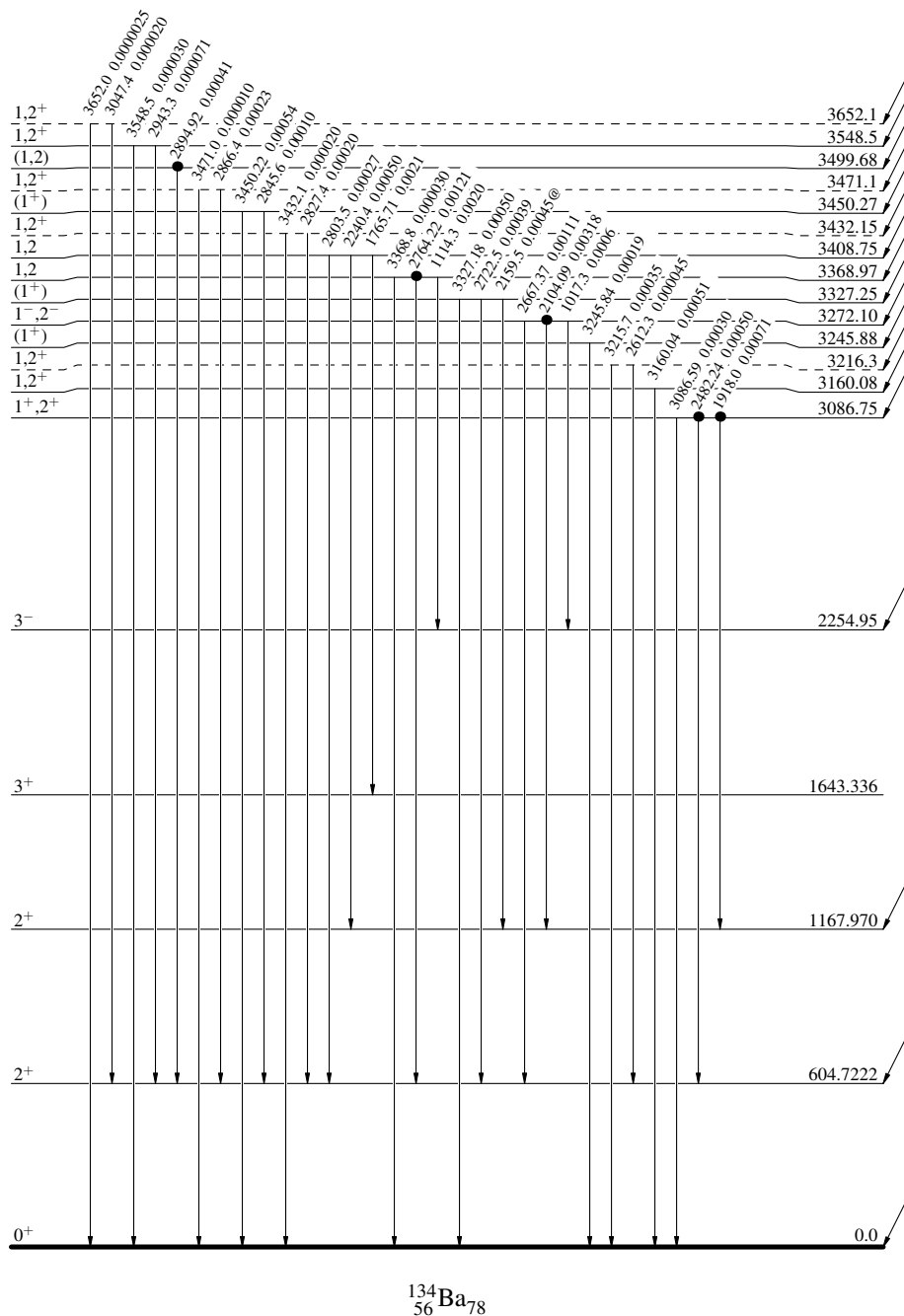
Decay Scheme

Legend

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

Intensities: I_γ per 100 parent decays
@ Multiply placed: intensity suitably divided

$1^+ \xrightarrow{0.0} 1^+ \quad 6.45 \text{ min } 16$
 $Q_\epsilon = 3731.20$
 $^{134}_{57}\text{La}_{77}$
 $\% \epsilon + \% \beta^+ = 100$



$I\beta^+$	$I\epsilon$	$\text{Log } ft$
0.000023	0.000023	7.3
0.000101	0.000101	7.61
0.00041	0.00041	7.25
0.00024	0.00024	7.59
0.00064	0.00064	7.24
0.00022	0.00022	7.77
0.0029	0.0029	6.72
0.0033	0.0033	6.78
0.00135	0.00135	7.27
0.0048	0.0048	6.84
0.00019	0.00019	8.29
0.00040	0.00040	8.03
0.00051	0.00051	8.02
0.0015	0.0015	7.66

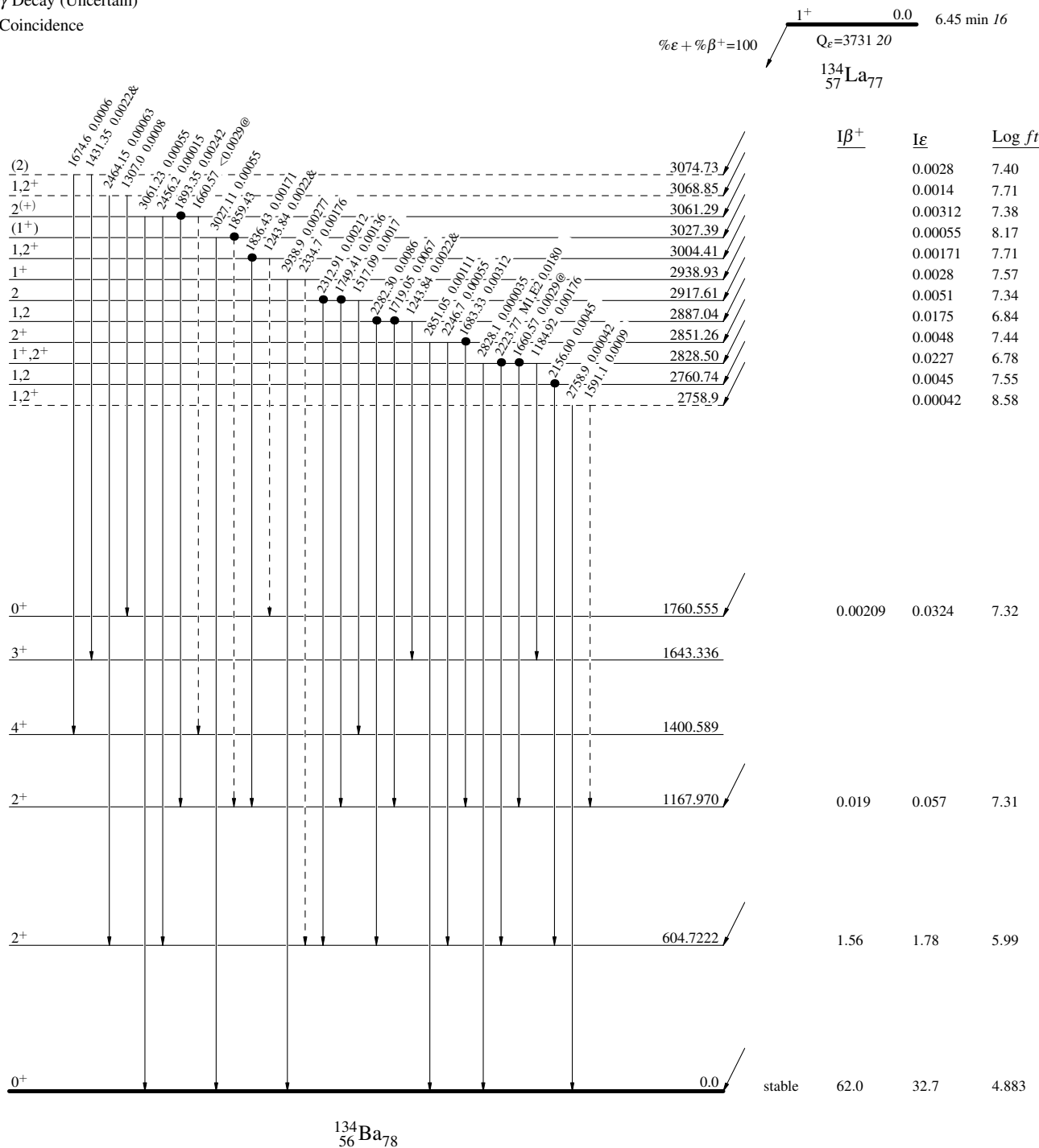
^{134}La ε decay (6.45 min) 1973MeZN,1976Gr11

Decay Scheme (continued)

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
 — $I_\gamma < 10\% \times I_\gamma^{\max}$
 — $I_\gamma > 10\% \times I_\gamma^{\max}$
 - - - γ Decay (Uncertain)
 • Coincidence

Intensities: I_γ per 100 parent decays
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided



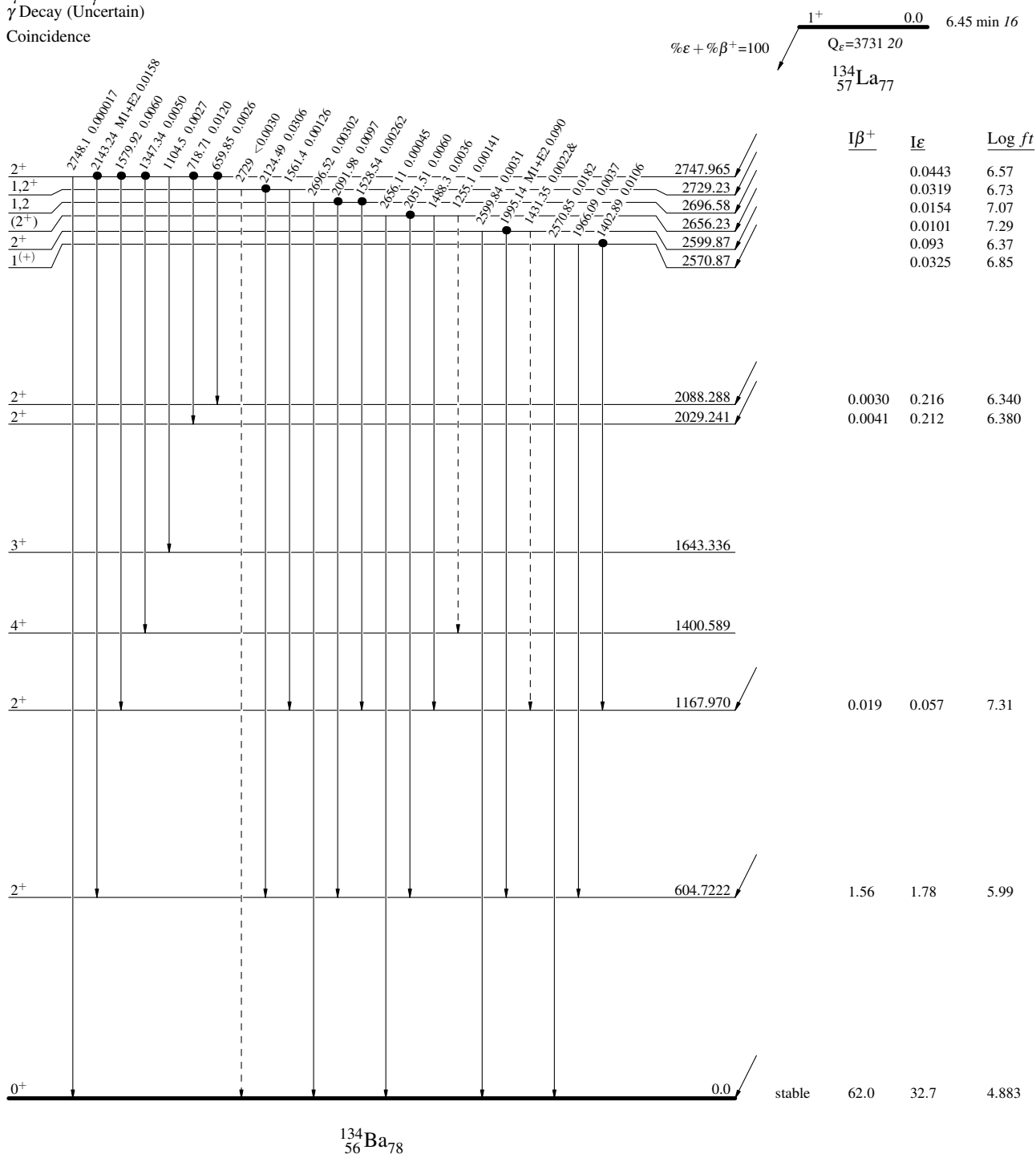
^{134}La ε decay (6.45 min) 1973MeZN,1976Gr11

Decay Scheme (continued)

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\max}$
 $\cdots$ γ Decay (Uncertain)
 $\bullet$ Coincidence

Intensities: I_γ per 100 parent decays
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided



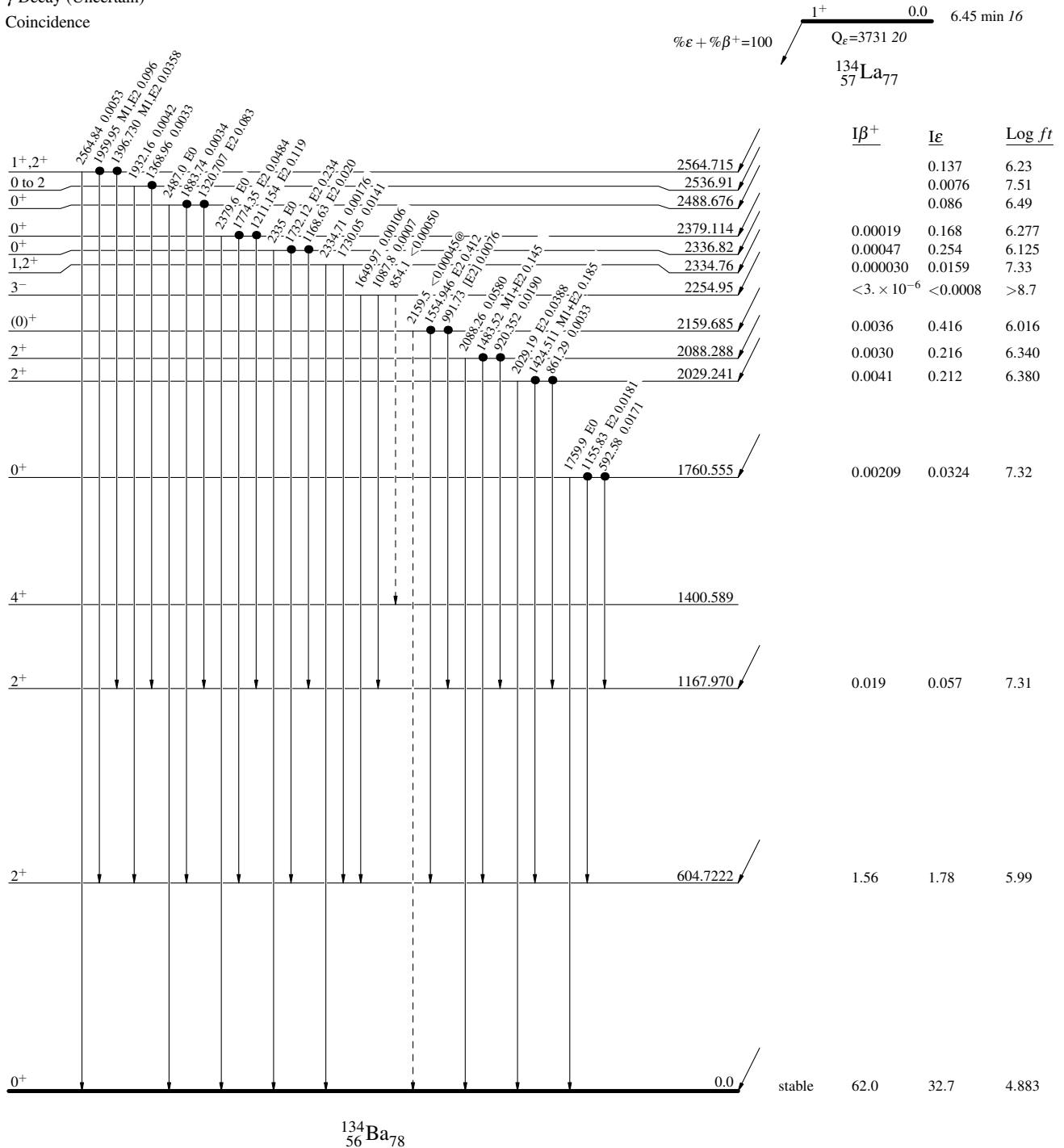
$^{134}_{56}\text{La}$ ε decay (6.45 min) $^{1973}\text{MeZn},^{1976}\text{Gr11}$

Decay Scheme (continued)

Legend

- $\rightarrow$ $I_\gamma < 2\% \times I_\gamma^{\max}$
 $\rightarrow$ $I_\gamma < 10\% \times I_\gamma^{\max}$
 $\rightarrow$ $I_\gamma > 10\% \times I_\gamma^{\max}$
 $\rightarrow$ γ Decay (Uncertain)
 $\bullet$ Coincidence

Intensities: I_γ per 100 parent decays
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided



^{134}La ε decay (6.45 min) 1973MeZN,1976Gr11

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided

Legend
 — $I_\gamma < 2\% \times I_\gamma^{\max}$
 — $I_\gamma < 10\% \times I_\gamma^{\max}$
 — $I_\gamma > 10\% \times I_\gamma^{\max}$
 • Coincidence

