^{74}Br ε decay (46 min) 1972Co32,1970Go24

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Ameenah R. Farhan	NDS 107, 1923 (2006)	30-Apr-2006

Parent: ^{74}Br: E=13.8; J$^{\pi}$=4$^{(+)}$; T$_{1/2}$=46 min *2*; Q(ε)=6907 *15*; %ε+%β^+ decay=100.0

Level scheme is from 1972Co32.

Others: 1984Ma35, 1983Pa10, 1981Ga11, 1974Ro14, 1974Ro11, 1971RoZV, 1969La15, 1968Be44, 1966Be17, 1957Be46, 1953Ho53.

γ: 1984Ma35, 1974Ro14, 1974Ro11, 1972Co32, 1971RoZV, 1970Go24, 1969La15, 1968Be44, 1966Be17, 1957Be46.

$\gamma\gamma$: 1972Co32, 1970Go24.

$\gamma(\theta$,T): orientation of ^{74}Br: 1992Ba68.

$\gamma\gamma(\theta)$: 1972Co32.

ce: 1984Ma35, 1983Pa10, 1972Co32, 1970Go24.

T$_{1/2}$ of ^{74}Br isotope: 1984Ma35, 1981Ga11, 1974Ro11, 1972Co32, 1971RoZV, 1969La15, 1968Be44, 1966Be17, 1957Be46, 1953Ho53.

^{74}Se Levels

E(level)[‡]	J$^{\pi}$[†]	E(level)[‡]	J$^{\pi}$[†]	E(level)[‡]	J$^{\pi}$[†]	E(level)[‡]	J$^{\pi}$[†]
0.0	0$^+$	2349.65 *24*	3$^-$	3250.97 *22*	(1,2$^+$)	4441.87 *22*	(3,4$^+$)
634.80 *9*	2$^+$	2563.63 *14*	(2$^+$,3,4$^+$)	3253.3 *4*	(2 to 6)	4496.54 *22*	(3,4$^+$)
853.84 *13*	0$^+$	2662.46 *18*	5$^+$	3306.1 *3*	(2 to 6)	4516.46 *20*	(3,4$^+$)
1269.12 *11*	2$^+$	2818.61 *19*	(2$^+$,3,4$^+$)	3379.58 *24*	(2$^+$)	4580.0 *3*	(3,4,5)
1363.25 *11*	4$^+$	2831.87 *23*	4$^-$	3580.4 *3*	(2$^+$)	4586.28 *22*	(3,4$^+$)
1838.74 *17*	(2$^+$)	2918.71 *19*	(2$^+$,3,4$^+$)	3675.02 *20*	(2$^+$,3,4$^+$)	4592.21 *18*	(4$^+$)
1884.39 *12*	3$^+$	3037.3 *4*	(2$^+$)	3771.99 *18*	(4$^+$)	4661.98 *21*	(3,4$^+$)
2107.99 *12*	4$^+$	3078.19 *17*	(4)$^+$	3928.8 *3*	(2 to 6)	4699.6 *3*	(3,4$^+$)
2231.36 *23*	6$^+$	3112.7 *3*	(2$^+$,3,4$^+$)	3931.1? *5*	(0$^+$,1)	4757.3 *4*	(3,4$^+$)
2314.43 *16*	(2$^+$)	3200.9 *4*	(4)	4309.37 *20*	(3,4$^+$)	4794.52 *22*	(3,4,5)

† From 'Adopted Levels'.
‡ From least square fit to Eγ's.

ε,β^+ radiations

E(decay)	E(level)	Iβ^+[†]	Iε[†]	Log *ft*	I($\varepsilon+\beta^+$)[†]	Comments
(2126 *15*)	4794.52	0.86 *12*	0.82 *11*	5.98 *6*	1.68 *19*	av Eβ=480 *7*; εK=0.427 *10*; εL=0.0488 *12*; εM+=0.00955 *23*
(2164 *15*)	4757.3	0.36 *7*	0.30 *6*	6.43 *9*	0.66 *11*	av Eβ=497 *7*; εK=0.404 *10*; εL=0.0461 *11*; εM+=0.00902 *22*
(2221 *15*)	4699.6	0.80 *13*	0.58 *9*	6.16 *7*	1.38 *19*	av Eβ=522 *7*; εK=0.369 *9*; εL=0.0421 *10*; εM+=0.00824 *20*
(2259 *15*)	4661.98	2.0 *4*	1.2 *2*	5.83 *8*	3.2 *4*	av Eβ=539 *7*; εK=0.348 *9*; εL=0.0397 *10*; εM+=0.00776 *19*
(2329 *15*)	4592.21	3.8 *5*	2.0 *3*	5.65 *7*	5.8 *6*	av Eβ=570 *7*; εK=0.311 *8*; εL=0.0355 *9*; εM+=0.00695 *17*
(2335 *15*)	4586.28	1.8 *3*	0.9 *2*	5.99 *8*	2.7 *3*	av Eβ=573 *7*; εK=0.308 *8*; εL=0.0352 *9*; εM+=0.00688 *17*
(2341 *15*)	4580.0	0.96 *14*	0.50 *8*	6.26 *7*	1.46 *13*	av Eβ=576 *7*; εK=0.305 *8*; εL=0.0348 *9*; εM+=0.00681 *17*
(2404 *15*)	4516.46	1.9 *2*	0.8 *1*	6.03 *6*	2.7 *3*	av Eβ=604 *7*; εK=0.276 *7*; εL=0.0315 *8*; εM+=0.00616 *15*
(2424 *15*)	4496.54	2.4 *4*	1.1 *2*	5.98 *7*	3.5 *4*	av Eβ=613 *7*; εK=0.267 *7*; εL=0.0305 *8*; εM+=0.00596 *15*
(2479 *15*)	4441.87	2.2 *2*	0.8 *1*	6.10 *5*	3.0 *3*	av Eβ=638 *7*; εK=0.245 *6*; εL=0.0280 *7*; εM+=0.00547 *14*
(2611 *15*)	4309.37	1.0 *3*	0.30 *14*	6.60 *21*	1.3 *3*	av Eβ=698 *7*; εK=0.199 *5*; εL=0.0227 *6*; εM+=0.00445 *11*
(2990[‡] *15*)	3931.1?	0.52 *18*	0.08 *3*	7.29 *16*	0.60 *19*	av Eβ=871 *7*; εK=0.1151 *24*; εL=0.0131 *3*; εM+=0.00256 *6*
(2992 *15*)	3928.8	0.72 *9*	0.10 *1*	7.16 *6*	0.82 *10*	av Eβ=872 *7*; εK=0.1148 *24*; εL=0.0131 *3*; εM+=0.00256 *6*
(3149 *15*)	3771.99	1.6 *4*	0.20 *5*	6.93 *11*	1.8 *4*	av Eβ=944 *7*; εK=0.0932 *19*; εL=0.01061 *21*; εM+=0.00207 *4*
(3246 *15*)	3675.02	3.8 *8*	0.4 *1*	6.67 *10*	4.2 *6*	av Eβ=989 *7*; εK=0.0824 *16*; εL=0.00938 *18*;

Continued on next page (footnotes at end of table)

^{74}Br ε decay (46 min) 1972Co32,1970Go24 (continued)

ε,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ [†]	Iε[†]	Log *ft*	I(ε+β^+)[†]	Comments
						εM+=0.00183 *4*
(3340 *15*)	3580.4	0.54 *12*	0.05 *2*	7.60 *13*	0.59 *12*	av Eβ=1033 *7*; εK=0.0733 *14*; εL=0.00834 *16*; εM+=0.00163 *3*
(3541 *15*)	3379.58	0.65 *10*	0.12 *2*	8.93^{1u} *7*	0.77 *11*	av Eβ=1148 *7*; εK=0.1390 *24*; εL=0.0159 *3*; εM+=0.00312 *6*
(3615 *15*)	3306.1	0.94 *13*	0.06 *1*	7.57 *7*	1.00 *13*	av Eβ=1162 *7*; εK=0.0535 *9*; εL=0.00608 *11*; εM+=0.001189 *20*
(3667 *15*)	3253.3	0.69 *10*	0.040 *6*	7.74 *7*	0.73 *10*	av Eβ=1187 *7*; εK=0.0505 *9*; εL=0.00574 *10*; εM+=0.001123 *19*
(3670 *15*)	3250.97	2.3 *3*	0.10 *2*	7.22 *6*	2.4 *3*	av Eβ=1188 *7*; εK=0.0503 *9*; εL=0.00572 *10*; εM+=0.001120 *19*
(3720 *15*)	3200.9	0.78 *10*	0.04 *1*	7.74 *6*	0.82 *10*	av Eβ=1211 *7*; εK=0.0477 *8*; εL=0.00543 *9*; εM+=0.001061 *18*
(3808 *15*)	3112.7	1.09 *15*	0.05 *2*	7.64 *12*	1.14 *15*	av Eβ=1253 *7*; εK=0.0435 *7*; εL=0.00495 *8*; εM+=0.000968 *16*
(3843[‡] *15*)	3078.19	<4.5	<0.2	>7.0	<4.7	av Eβ=1269 *7*; εK=0.0420 *7*; εL=0.00477 *8*; εM+=0.000934 *15*
(3883 *15*)	3037.3	0.89 *19*	0.11 *2*	9.14^{1u} *10*	1.00 *19*	av Eβ=1307 *7*; εK=0.0959 *15*; εL=0.01097 *18*; εM+=0.00215 *4*
(4002 *15*)	2918.71	3.5 *4*	0.10 *2*	7.27 *6*	3.6 *4*	av Eβ=1344 *8*; εK=0.0358 *6*; εL=0.00407 *6*; εM+=0.000797 *12*
(4089 *15*)	2831.87	0.53 *10*	0.020 *4*	8.15 *9*	0.55 *10*	av Eβ=1386 *8*; εK=0.0330 *5*; εL=0.00375 *6*; εM+=0.000733 *11*
(4102 *15*)	2818.61	2.2 *3*	0.10 *1*	7.54 *7*	2.3 *3*	av Eβ=1392 *8*; εK=0.0326 *5*; εL=0.00370 *6*; εM+=0.000724 *11*
(4258 *15*)	2662.46	0.82 *17*	0.030 *6*	8.06 *10*	0.85 *17*	av Eβ=1466 *8*; εK=0.0282 *4*; εL=0.00321 *5*; εM+=0.000627 *9*
(4357 *15*)	2563.63	7.8 *7*	0.20 *3*	7.14 *5*	8.0 *7*	av Eβ=1513 *8*; εK=0.0259 *4*; εL=0.00294 *4*; εM+=0.000575 *8*
(4571 *15*)	2349.65	4.1 *16*	0.10 *8*	7.6 *4*	4.2 *16*	av Eβ=1615 *8*; εK=0.0216 *3*; εL=0.00245 *3*; εM+=0.000479 *6*
(4606 *15*)	2314.43	1.15 *20*	0.08 *1*	9.65^{1u} *8*	1.23 *17*	av Eβ=1646 *7*; εK=0.0484 *7*; εL=0.00553 *8*; εM+=0.001081 *14*
(4689 *15*)	2231.36	0.65 *10*	0.04 *1*	9.95^{1u} *7*	0.69 *10*	av Eβ=1685 *7*; εK=0.0451 *6*; εL=0.00515 *7*; εM+=0.001008 *13*
(4813 *15*)	2107.99	4.9 *8*	0.10 *2*	7.60 *8*	5.0 *8*	av Eβ=1731 *8*; εK=0.01780 *21*; εL=0.002021 *24*; εM+=0.000395 *5*
(5036 *15*)	1884.39	6.7 *11*	0.10 *2*	7.58 *8*	6.8 *11*	av Eβ=1838 *8*; εK=0.01505 *17*; εL=0.001709 *19*; εM+=0.000334 *4*
(5082 *15*)	1838.74	1.8 *6*	0.070 *24*	9.80^{1u} *15*	1.8 *6*	av Eβ=1871 *8*; εK=0.0329 *4*; εL=0.00376 *5*; εM+=0.000735 *9*
(5558 *15*)	1363.25	8 *3*	0.10 *5*	7.74 *22*	8 *3*	av Eβ=2089 *8*; εK=0.01053 *11*; εL=0.001195 *12*; εM+=0.00023
(5652[‡] *15*)	1269.12	<9	<0.2	>9.5^{1u}	<9	av Eβ=2142 *8*; εK=0.02193 *23*; εL=0.00250 *3*; εM+=0.000489 *5*
(6286[‡] *15*)	634.80	<11	<0.2	>9.7^{1u}	<11	av Eβ=2445 *8*; εK=0.01472 *13*; εL=0.001676 *15*; εM+=0.000328 *3*

[†] Absolute intensity per 100 decays.
[‡] Existence of this branch is questionable.

γ(^{74}Se)

Iγ normalization: from decay scheme. Assumed No ε+β^+ feeding to g.s..

E$_\gamma$[†]	I$_\gamma$[‡g]	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Mult.	δ	α[h]	I$_{(\gamma+ce)}$[g]	Comments
219.0 *1*	5.5 *2*	853.84	0$^+$	634.80	2$^+$	E2		0.047		α(K)=0.0404; α(L)=0.00464 α(K)exp=0.036 *10* (1972Co32), 0.069 *11* (1984Ma35). (219γ)(635γ)(θ): A$_2$=+0.29 *5*, A$_4$=+1.32 *7* (1972Co32).
[x]368.5 *3*	0.17 *5*									
521.2 *2*	0.7 *1*	1884.39	3$^+$	1363.25	4$^+$					
615.15 *10*	7.3 *8*	1884.39	3$^+$	1269.12	2$^+$					
634.3[a] *2*	18.0 *25*	1269.12	2$^+$	634.80	2$^+$	D+Q	−5.6 *16*			δ: (634γ)(635γ)(θ): A$_2$=+0.059 *36*, A$_4$=+0.35 *5* (1972Co32).
634.8[a] *1*	100	634.80	2$^+$	0.0	0$^+$					
679.1 *2*	0.7 *1*	2563.63	(2$^+$,3,4$^+$)	1884.39	3$^+$					
724.9 *5*	0.7 *3*	2563.63	(2$^+$,3,4$^+$)	1838.74	(2$^+$)					
728.3 *1*	39 *2*	1363.25	4$^+$	634.80	2$^+$	E2		0.00094		α=0.00094; α(K)=0.00083 α(K)exp=0.00086 *14* (1984Ma35) (728γ)(635γ)(θ): A$_2$=+0.09 *4*, A$_4$=+0.02 *5* (1972Co32).
744.7 *1*	2.7 *4*	2107.99	4$^+$	1363.25	4$^+$					
763.6[#] *2*	0.25 *5*	3078.19	(4)$^+$	2314.43	(2$^+$)					
777.6 *2*	0.7 *1*	2662.46	5$^+$	1884.39	3$^+$					
838.96 *15*	5.6 *6*	2107.99	4$^+$	1269.12	2$^+$					
850.6 *2*	0.9 *1*	3928.8	(2 to 6)	3078.19	(4)$^+$					
853.8		853.84	0$^+$	0.0	0$^+$	E0			0.045 *5*	observed In ce spectrum (1984Ma35,1983Pa10). I$_{(\gamma+ce)}$: deduced from weighted average of Ice(854K)/Iγ(219γ)=0.0078 *6* (1983Pa10) and Ice(854K)/Ice(219K)=0.26 *4*. X(E0/E2)=0.13 *2* (1984Ma35). Monopole strength=0.16 *2* (1984Ma35), 0.18 *1* (1983Pa10).
868.1 *2*	0.76 *10*	2231.36	6$^+$	1363.25	4$^+$					
[x]935.6[@] *9*	0.4 *2*									
979.5[#] *2*	0.5 *1*	2818.61	(2$^+$,3,4$^+$)	1838.74	(2$^+$)					
984.7[a] *3*	3.7 *5*	1838.74	(2$^+$)	853.84	0$^+$					(985γ)(219γ)(θ): A$_2$=+0.09 *15*, A$_4$=0.0 *2* (1972Co32).
986.5[a] *5*	0.8 *5*	2349.65	3$^-$	1363.25	4$^+$					
1022.7[#] *2*	0.44 *5*	4794.52	(3,4,5)	3771.99	(4$^+$)					
1044.8 *3*	0.40 *5*	2314.43	(2$^+$)	1269.12	2$^+$					
1080.1[a] *4*	0.5 *1*	2918.71	(2$^+$,3,4$^+$)	1838.74	(2$^+$)					
1080.5[a] *4*	0.5 *1*	2349.65	3$^-$	1269.12	2$^+$					
[x]1145.8[&] *8*	0.56 *10*									

From ENSDF

$^{74}_{34}Se_{40}$-3

γ(^{74}Se) (continued)

E_γ[†]	I_γ[‡g]	E_i(level)	J^π_i	E_f	J^π_f
1194.0[#] *3*	0.10 *2*	3078.19	$(4)^+$	1884.39	3^+
1198.0[#] *5*	0.4 *1*	3306.1	(2 to 6)	2107.99	4^+
1200.5 *2*	5.7 *6*	2563.63	$(2^+,3,4^+)$	1363.25	4^+
1204.0 *3*	0.50 *7*	1838.74	(2^+)	634.80	2^+
1249.5 *2*	7.3 *7*	1884.39	3^+	634.80	2^+
1269.1 *2*	9.7 *4*	1269.12	2^+	0.0	0^+
1294.6 *2*	2.2 *3*	2563.63	$(2^+,3,4^+)$	1269.12	2^+
1299.7[#] *4*	0.23 *4*	2662.46	5^+	1363.25	4^+
1366.6 *2*	2.5 *3*	3250.97	$(1,2^+)$	1884.39	3^+
1421.7 *3*	0.7 *1*	3306.1	(2 to 6)	1884.39	3^+
1455.7 *2*	2.0 *3*	2818.61	$(2^+,3,4^+)$	1363.25	4^+
1460.5[#] *2*	0.9 *1*	2314.43	(2^+)	853.84	0^+
1468.6[#] *2*	0.6 *1*	2831.87	4^-	1363.25	4^+
1473.1 *2*	1.6 *2*	2107.99	4^+	634.80	2^+
1494.5[#] *3*	0.44 *6*	3379.58	(2^+)	1884.39	3^+
1508.0[#] *3*	0.24 *5*	4586.28	$(3,4^+)$	3078.19	$(4)^+$
[x]1515.7 *3*	0.29 *5*				
1555.4[#] *3*	0.35 *6*	2918.71	$(2^+,3,4^+)$	1363.25	4^+
1566.4[#] *3*	0.36 *6*	3675.02	$(2^+,3,4^+)$	2107.99	4^+
1649.6 *3*	0.39 *6*	2918.71	$(2^+,3,4^+)$	1269.12	2^+
1679.8 *3*	0.8 *1*	2314.43	(2^+)	634.80	2^+
1714.8[i] *3*	<6.7[ib]	2349.65	3^-	634.80	2^+
1714.8[i] *3*	<6.7[i]	3078.19	$(4)^+$	1363.25	4^+
1746.1[#] *4*	0.14 *5*	4309.37	$(3,4^+)$	2563.63	$(2^+,3,4^+)$
[x]1769.9 *4*	0.17 *5*				
1837.6 *3*	0.9 *1*	3200.9	(4)	1363.25	4^+
1843.2 *3*	1.0 *1*	3112.7	$(2^+,3,4^+)$	1269.12	2^+
1853.8[#] *3*	0.5 *1*	4516.46	$(3,4^+)$	2662.46	5^+
1890.0 *3*	0.8 *1*	3253.3	(2 to 6)	1363.25	4^+
1928.7[a] *5*	0.7 *1*	2563.63	$(2^+,3,4^+)$	634.80	2^+
1933.8[#] *3*	0.5 *1*	3771.99	(4^+)	1838.74	(2^+)
1952.8 *3*	0.35 *6*	4516.46	$(3,4^+)$	2563.63	$(2^+,3,4^+)$
1994.8[#] *3*	0.5 *1*	4309.37	$(3,4^+)$	2314.43	(2^+)
2028.2[i] *3*	0.5[i] *1*	2662.46	5^+	634.80	2^+
2028.2[i] *3*	<0.5[i]	4592.21	(4^+)	2563.63	$(2^+,3,4^+)$
2098.7[#] *3*	0.5 *1*	4661.98	$(3,4^+)$	2563.63	$(2^+,3,4^+)$
[x]2158.2[&] *8*	0.5 *2*				
[x]2167.4[&] *8*	0.7 *2*				
2183.4 *3*	1.1 *2*	3037.3	(2^+)	853.84	0^+
2217.1[#] *3*	0.5 *1*	3580.4	(2^+)	1363.25	4^+
[x]2228.6[&] *8*	0.29 *15*				
2283.8 *3*	2.7 *4*	2918.71	$(2^+,3,4^+)$	634.80	2^+
2312.1 *3*	3.7 *5*	3675.02	$(2^+,3,4^+)$	1363.25	4^+
2333.5 *3*	0.9 *1*	4441.87	$(3,4^+)$	2107.99	4^+
2388.3 *3*	1.3 *2*	4496.54	$(3,4^+)$	2107.99	4^+
2396.9[#] *5*	0.15 *5*	3250.97	$(1,2^+)$	853.84	0^+
2408.7 *3*	1.0 *4*	3771.99	(4^+)	1363.25	4^+
2443.7[#] *4*	0.4 *1*	3078.19	$(4)^+$	634.80	2^+
2472.2[#] *4*	0.8 *1*	4580.0	(3,4,5)	2107.99	4^+
2478.4[i] *4*	<0.5[i]	3112.7	$(2^+,3,4^+)$	634.80	2^+
2478.4[i] *4*	<0.5[i]	4586.28	$(3,4^+)$	2107.99	4^+
2485.6[d] *4*	0.4 *1*	4592.21	(4^+)	2107.99	4^+
2502.3[#] *5*	0.19 *5*	3771.99	(4^+)	1269.12	2^+
[x]2558.0 *4*	0.4 *1*				
2615.8[#j] *5*	≤0.1	3250.97	$(1,2^+)$	634.80	2^+
2661.9[j] *4*	0.7 *2*	3931.1?	$(0^+,1)$	1269.12	2^+
[x]2679.8[#] *3*	0.8 *1*				
2695.5[#] *3*	0.8 *1*	4580.0	(3,4,5)	1884.39	3^+
2701.8 *3*	1.3 *2*	4586.28	$(3,4^+)$	1884.39	3^+
2708.5 *3*	0.6 *1*	4592.21	(4^+)	1884.39	3^+
2745.4[#] *3*	0.4 *1*	3379.58	(2^+)	634.80	2^+
[x]2754.5 *5*	0.3 *1*				
2825.1[j] *10*		4661.98	$(3,4^+)$	1838.74	(2^+)
2945.5[i] *4*	<0.3[i]	3580.4	(2^+)	634.80	2^+
2945.5[i] *4*	<0.3[i]	4309.37	$(3,4^+)$	1363.25	4^+
[x]3032.3 *6*	≤0.1				
3040.4[i] *3*	<1.2[ic]	3675.02	$(2^+,3,4^+)$	634.80	2^+
3040.4[i] *3*	<1.2[i]	4309.37	$(3,4^+)$	1269.12	2^+
3137.1 *3*	0.7 *1*	3771.99	(4^+)	634.80	2^+
3153.3 *3*	1.1 *2*	4516.46	$(3,4^+)$	1363.25	4^+
3173.1 *3*	1.2 *2*	4441.87	$(3,4^+)$	1269.12	2^+
3227.5[i] *3*	0.9[i] *2*	4496.54	$(3,4^+)$	1269.12	2^+
3227.5[ie] *3*	<0.9[i]	4592.21	(4^+)	1363.25	4^+
3247.5 *10*	≤0.5	4516.46	$(3,4^+)$	1269.12	2^+
3297.7[f] *3*	1.5 *3*	4661.98	$(3,4^+)$	1363.25	4^+
3323.2 *4*	0.6 *1*	4592.21	(4^+)	1269.12	2^+
3336.3 *3*	1.3 *2*	4699.6	$(3,4^+)$	1363.25	4^+
3393.8[i] *4*	<0.6[i]	4661.98	$(3,4^+)$	1269.12	2^+

$^{74}_{34}$Se$_{40}$-4

γ(^{74}Se) (continued)

E_γ[†]	I_γ[‡g]	E_i(level)	J_i^π	E_f	J_f^π
3393.8[i] *4*	0.6[i] *1*	4757.3	(3,4$^+$)	1363.25	4$^+$
3430.8 *3*	1.4 *2*	4794.52	(3,4,5)	1363.25	4$^+$
[x]3625.0 *15*	0.15 *5*				
[x]3633.2 *15*	0.10 *5*				
[x]3684.6 *6*	0.19 *6*				
[x]3786.7 *15*	0.25 *7*				
3806.7 *5*	1.2 *2*	4441.87	(3,4$^+$)	634.80	2$^+$
3861.8 *5*	1.6 *3*	4496.54	(3,4$^+$)	634.80	2$^+$
3881.6 *5*	0.8 *1*	4516.46	(3,4$^+$)	634.80	2$^+$
[x]3902.4 *14*	0.09 *4*				
[x]3910.0 *14*	0.03 *2*				
3951.5[#] *7*	1.2 *2*	4586.28	(3,4$^+$)	634.80	2$^+$
3957.6 *6*	4.1 *5*	4592.21	(4$^+$)	634.80	2$^+$
[x]3972.8 *15*	0.08 *4*				
4027.1 *7*	1.2 *2*	4661.98	(3,4$^+$)	634.80	2$^+$
4064.4 *11*	0.21 *6*	4699.6	(3,4$^+$)	634.80	2$^+$
4123.5[#] *12*	0.12 *5*	4757.3	(3,4$^+$)	634.80	2$^+$
[x]4200.4 *15*	0.13 *5*				
[x]4344.0 *20*	0.10 *5*				
[x]4380.4 *12*	0.22 *6*				

† Average from 1972Co32 and 1970Go24. Weak γ′s are reported by 1972Co32 only.

‡ Weighted average of 1972Co32 and 1970Go24. Data of 1984Ma35 given for a few strong γ-rays were also considered In obtaining weighted average. Unless otherwise stated, γ′s with Iγ<0.5 are from 1972Co32.

From 1972Co32 only.

@ From 1970Go24 only.

& From 1974Ro14 only.

a Doublet. Energy from γγ (1972Co32).

b Total intensity=6.7 *7*.

c Total intensity=1.2 *2*.

d Level-energy difference=2484.2.

e Level-energy difference=3228.9.

f Level-energy difference=3298.7.

g For absolute intensity per 100 decays, multiply by 0.912 *4*.

h 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.

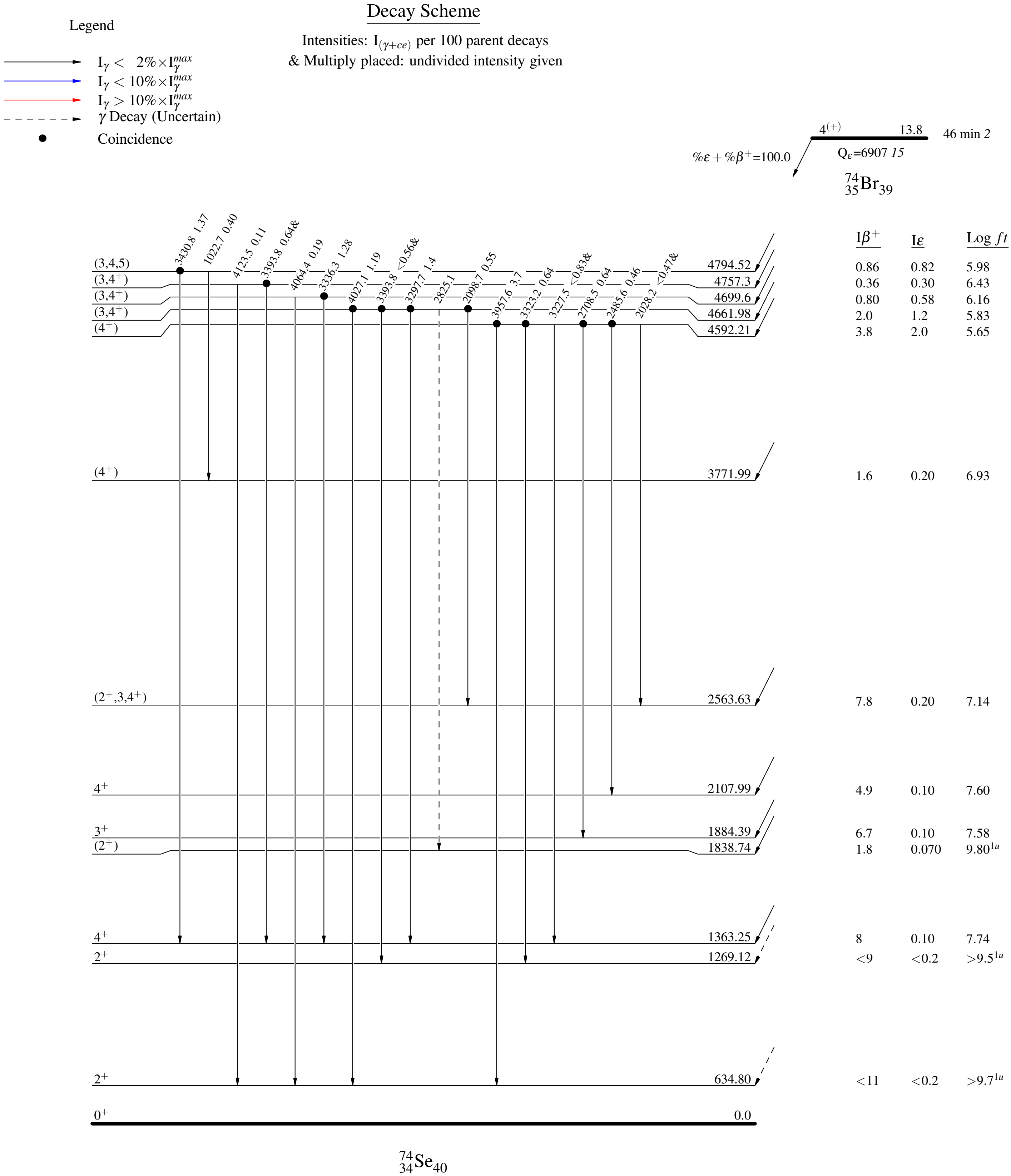
i Multiply placed with undivided intensity.

j Placement of transition in the level scheme is uncertain.

x γ ray not placed in level scheme.

$^{74}_{34}$Se$_{40}$-5

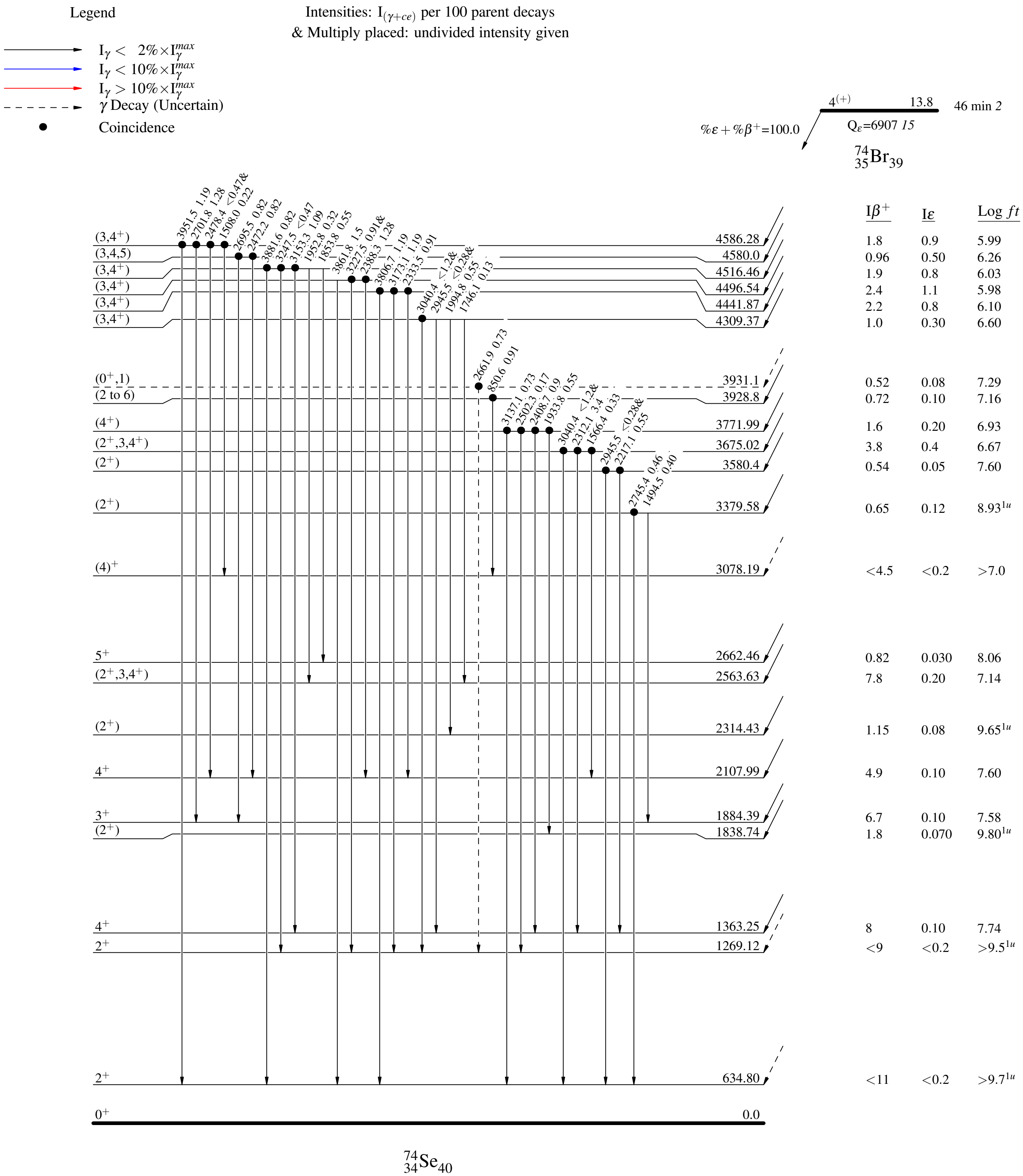
^{74}Br ε decay (46 min) 1972Co32,1970Go24



^{74}Br ε decay (46 min) 1972Co32,1970Go24

Decay Scheme (continued)

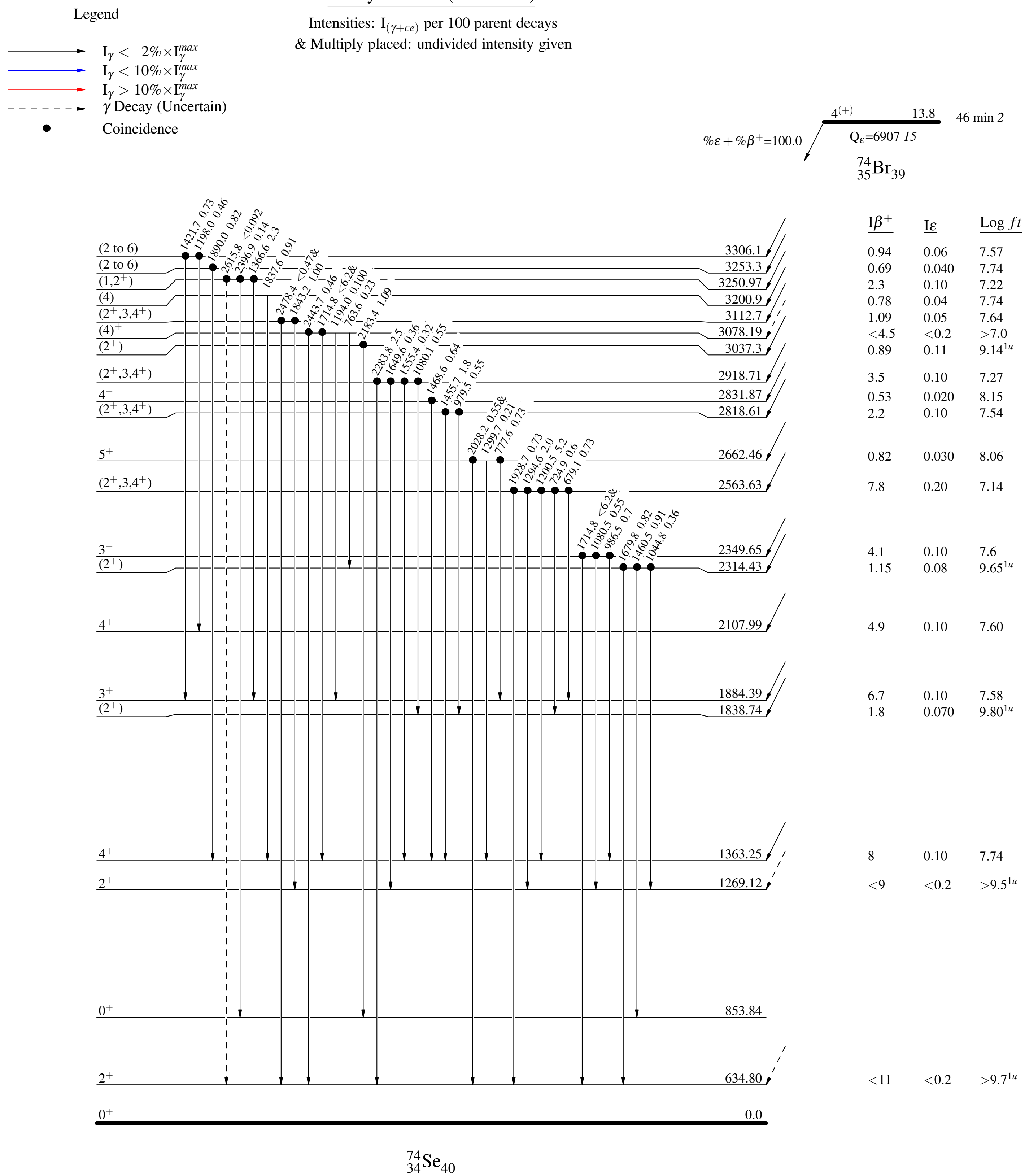
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
& Multiply placed: undivided intensity given



^{74}Br ε decay (46 min) 1972Co32,1970Go24

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
& Multiply placed: undivided intensity given



^{74}Br ε decay (46 min) 1972Co32,1970Go24

Decay Scheme (continued)