

$^{226}\text{Fr} \beta^-$  decay

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Y. A. Akovali	NDS 77,433 (1996)	1-Feb-1996

Parent:  $^{226}\text{Fr}$ :  $E=0.0$ ;  $J^\pi=1^-$ ;  $T_{1/2}=49$  s  $I$ ;  $Q(\beta^-)=3671$  91;  $\% \beta^-$  decay=100.0

[1993MeZW](#) deduced  $Q(\beta^-)=3.7\pm 0.1$  MeV from  $\beta$ - $\gamma$  coincidence data. See also [1987VeZV](#). Other measurement:  $E(\beta^-)_{\text{max}}=4050$  590 from singles  $\beta^-$  spectrum ([1975We23](#)).

 $^{226}\text{Ra}$  Levels

E(level)	$J^\pi$	E(level)	$J^\pi$	E(level)	$J^\pi$	E(level)	$J^\pi$
0.0	$0^+$	1122.4 3	( $2^+$ )	1767.1 10	0,1,2	1982.7 10	$0^+, 1$
67.67 1	$2^+$	1156.2 1	$2^+$	1778.4 10	0,1,2	2006.7 15	0,1,2
211.54 2	$4^+$	1238.9 5	(2)	1786.1 10	$1^-, 2^+$	2015.2 15	0,1,2
253.73 1	$1^-$	1390.0 1	$2^+$	1865.0 10	$1, 2^+$	2056.8 5	$1, 2^+$
321.54 6	$3^-$	1422.5 10	0,1,2	1882.3 7	0,1,2	2086.1 10	$1, 2^+$
446.3 2	$5^-$	1437.8 7	$1^-, 2$	1888.4 15	0,1,2	2182.3 15	0,1,2
824.6 1	$0^+$	1587.3 5	$1, 2^+$	1897.4 10	$1^-, 2^+$	2189.4 10	$2^+$
873.7 1	$2^+$	1621.3 5	$1^-, 2^+$	1907.8 10	$1, 2^+$	2269.7 10	$1, 2^+$
1048.8 1	$1^-$	1723.4 3	$2^+$	1945.6 10	$1, 2^+$		
1070.5 2	( $2^-$ )	1738.5 10	$1, 2^+$	1951.0 10	$1^-, 2^+$		
1077.2 2	$1^-, 2$	1756.2 10	$1, 2^+$	1970.8 5	$1^-, 2^+$		

 $\beta^-$  radiations

E(decay)	E(level)	$I\beta^- \ddagger$	Log $ft$	Comments
( $1.40 \times 10^3$ ) 9)	2269.7	0.26 4	7.0 2	av $E\beta=462$ 32
( $1.48 \times 10^3$ ) 9)	2189.4	0.22 5	7.2 2	av $E\beta=494$ 32
( $1.49 \times 10^3$ ) 9)	2182.3	0.11 3	7.5 2	av $E\beta=497$ 32
( $1.58 \times 10^3$ ) 9)	2086.1	0.23 5	7.3 2	av $E\beta=535$ 32
( $1.61 \times 10^3$ ) 9)	2056.8	0.36 5	7.1 2	av $E\beta=547$ 33
( $1.66 \times 10^3$ ) 9)	2015.2	0.14 3	7.5 2	av $E\beta=564$ 33
( $1.66 \times 10^3$ ) 9)	2006.7	0.23 9	7.3 2	av $E\beta=567$ 33
( $1.69 \times 10^3$ ) 9)	1982.7	0.28 4	7.3 2	av $E\beta=577$ 33
( $1.70 \times 10^3$ ) 9)	1970.8	1.6 2	6.5 1	av $E\beta=581$ 33
( $1.72 \times 10^3$ ) 9)	1951.0	0.66 10	6.9 2	av $E\beta=589$ 33
( $1.73 \times 10^3$ ) 9)	1945.6	0.48 8	7.1 2	av $E\beta=592$ 33
( $1.76 \times 10^3$ ) 9)	1907.8	0.28 4	7.3 1	av $E\beta=607$ 33
( $1.77 \times 10^3$ ) 9)	1897.4	0.26 5	7.4 2	av $E\beta=611$ 33
( $1.78 \times 10^3$ ) 9)	1888.4	0.11 3	7.8 2	av $E\beta=615$ 33
( $1.79 \times 10^3$ ) 9)	1882.3	0.15 3	7.6 2	av $E\beta=617$ 33
( $1.81 \times 10^3$ ) 9)	1865.0	0.64 9	7.0 1	av $E\beta=624$ 33
( $1.88 \times 10^3$ ) 9)	1786.1	0.65 12	7.1 2	av $E\beta=656$ 33
( $1.89 \times 10^3$ ) 9)	1778.4	0.51 9	7.2 2	av $E\beta=659$ 33
( $1.90 \times 10^3$ ) 9)	1767.1	0.46 8	7.2 2	av $E\beta=664$ 33
( $1.91 \times 10^3$ ) 9)	1756.2	1.3 3	6.8 2	av $E\beta=669$ 33
( $1.93 \times 10^3$ ) 9)	1738.5	0.86 12	7.0 1	av $E\beta=676$ 33
( $1.95 \times 10^3$ ) 9)	1723.4	1.01 15	6.9 1	av $E\beta=682$ 33
( $2.05 \times 10^3$ ) 9)	1621.3	0.51 8	7.3 1	av $E\beta=724$ 33
( $2.08 \times 10^3$ ) 9)	1587.3	0.21 5	7.7 2	av $E\beta=738$ 33
( $2.23 \times 10^3$ ) 9)	1437.8	0.10 5	8.2 3	av $E\beta=799$ 34
( $2.25 \times 10^3$ ) 9)	1422.5	0.15 3	8.0 2	av $E\beta=806$ 34
( $2.28 \times 10^3$ ) 9)	1390.0	3.9 5	6.6 1	av $E\beta=819$ 34
( $2.43 \times 10^3$ ) 9)	1238.9	0.20 4	8.0 2	av $E\beta=882$ 34

E(decay): [1975We23](#) obtained  $E(\beta^-)=2170$  890 from (1322 $\gamma$ )( $\beta^-$ ) data.

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<sup>226</sup>Fr β<sup>-</sup> decay (continued)

β<sup>-</sup> radiations (continued)

E(decay)	E(level)	Iβ <sup>-†‡</sup>	Log ft	Comments
(2.51×10 <sup>3</sup> 9)	1156.2	2.2 3	7.0 1	av Eβ=917 34
(2.55×10 <sup>3</sup> 9)	1122.4	0.07 4	8.6 3	av Eβ=931 34
(2.59×10 <sup>3</sup> 9)	1077.2	2.0 3	7.1 1	av Eβ=950 34
(2.60×10 <sup>3</sup> 9)	1070.5	1.4 2	7.3 1	av Eβ=952 34
(2.62×10 <sup>3</sup> 9)	1048.8	2.5 4	7.0 1	av Eβ=962 60
(2.80×10 <sup>3</sup> 9)	873.7	0.62 10	7.8 1	av Eβ=1035 34
(2.85×10 <sup>3</sup> 9)	824.6	0.15 9	8.4 3	av Eβ=1056 34
(3.35×10 <sup>3#</sup> 9)	321.54	1.0 10	>7.6	av Eβ=1268 34
(3.42×10 <sup>3</sup> 9)	253.73	34 5	6.4 1	av Eβ=1297 34
E(decay): 1975We23 measured E(β <sup>-</sup> )=3580 390 by (186γ)(β <sup>-</sup> ) and E(β <sup>-</sup> )=3510 330 by (254γ)(β <sup>-</sup> ) coincidences.				
(3.60×10 <sup>3</sup> 9)	67.67	12 5	6.9 2	av Eβ=1376 43
(3.67×10 <sup>3</sup> 9)	0.0	27 10	6.6 2	av Eβ=1405 34

† From intensity balance at each level, except for the β<sup>-</sup> to g.s. The intensity of the β<sup>-</sup> to g.s. was calculated by assuming that the Alaga rule holds for β<sup>-</sup> transitions to the 0<sup>+</sup>, 2<sup>+</sup> levels of the g.s. band.

‡ Absolute intensity per 100 decays.

# Existence of this branch is questionable.

γ(<sup>226</sup>Ra)

I<sub>γ</sub> normalization: Obtained by requiring Σ Ti(γ's to g.s.)=100%-Iβ(to g.s.)= 73% 10, assuming that Iβ(to g.s.)=27% 10 is correct.

γγ: 1980KuZL.

βγ: 1975We23, 1987VeZV.

The decay scheme is presented as constructed by 1981Ku02.

E <sub>γ</sub> <sup>†</sup>	I <sub>γ</sub> <sup>‡a</sup>	E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>	Mult. <sup>#</sup>	α <sup>b</sup>	Comments
67.672 <sup>@</sup> 2	4.3 4	67.67	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2	61.9	α(L)=45.2; α(M)=12.2; α(N+..)=4.40
(67.81 <sup>&amp;</sup> 20)		321.54	3 <sup>-</sup>	253.73	1 <sup>-</sup>			
110.00 5	2.1 2	321.54	3 <sup>-</sup>	211.54	4 <sup>+</sup>	[E1]	0.388	α(K)=0.301; α(L)=0.0658; α(M)=0.0158; α(N+..)=0.0054
(124.8 <sup>&amp;</sup> 2)	0.004 2	446.3	5 <sup>-</sup>	321.54	3 <sup>-</sup>	[E2]	3.81	I <sub>γ</sub> : from the branching measured in (HL,xny).
143.872 <sup>@</sup> 4	3.4 3	211.54	4 <sup>+</sup>	67.67	2 <sup>+</sup>	E2	2.11	α(K)=0.280; α(L)=1.34; α(M)=0.363; α(N+..)=0.132
186.053 <sup>@</sup> 4	100 5	253.73	1 <sup>-</sup>	67.67	2 <sup>+</sup>	E1	0.108	α(K)=0.086; α(L)=0.0169; α(M)=0.00402; α(N+..)=0.00139
234.7 1	0.12 4	446.3	5 <sup>-</sup>	211.54	4 <sup>+</sup>	[E1]	0.0623	
253.729 <sup>@</sup> 10	137 9	253.73	1 <sup>-</sup>	0.0	0 <sup>+</sup>	E1	0.0520	α(K)=0.0417; α(L)=0.00779; α(M)=0.00186; α(N+..)=0.00064
254.1 2	15 5	321.54	3 <sup>-</sup>	67.67	2 <sup>+</sup>	[E1]	0.0519	α(K)=0.0416; α(L)=0.00777; α(M)=0.00185; α(N+..)=0.00064
Transition was observed in γγ coincidence; intensity was deduced from γγ data.								
444.50 5	0.79 4	1882.3	0,1,2	1437.8	1 <sup>-</sup> ,2	[D,E2]	0.14 12	α(E1)=0.0151, α(E2)=0.0523, α(M1)=0.257.
516.30 5	1.4 1	1390.0	2 <sup>+</sup>	873.7	2 <sup>+</sup>	[D,E2]	0.092 81	α(E1)=0.0112, α(E2)=0.0362, α(M1)=0.173.

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$^{226}\text{Fr} \beta^-$  decay (continued) $\gamma(^{226}\text{Ra})$  (continued)

$E_\gamma$ †	$I_\gamma$ ‡ $\alpha$	$E_i$ (level)	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. #	$\alpha^b$	Comments
552.2 1	2.9 2	873.7	2 <sup>+</sup>	321.54	3 <sup>-</sup>	[E1]	0.00975	$\alpha(K)=0.00795$ ; $\alpha(L)=0.00136$
565.4 1	1.1 1	1390.0	2 <sup>+</sup>	824.6	0 <sup>+</sup>	[E2]	0.0294	
570.9 1	4.0 3	824.6	0 <sup>+</sup>	253.73	1 <sup>-</sup>	[E1]	0.00912	$\alpha(K)=0.00744$ ; $\alpha(L)=0.00127$
620.0 1	3.2 3	873.7	2 <sup>+</sup>	253.73	1 <sup>-</sup>	[E1]	0.00776	$\alpha(K)=0.00633$ ; $\alpha(L)=0.00107$
646.2 3	0.42 8	1723.4	2 <sup>+</sup>	1077.2	1 <sup>-</sup> ,2	[D,E2]	0.051 44	$\alpha(E1)=0.00716$ , $\alpha(E2)=0.0219$ , $\alpha(M1)=0.0951$ .
755.8 2	1.0 1	1077.2	1 <sup>-</sup> ,2	321.54	3 <sup>-</sup>	[D,E2]	0.034 29	$\alpha(E1)=0.00533$ , $\alpha(E2)=0.0158$ , $\alpha(M1)=0.0630$ .
795.1 1	2.3 2	1048.8	1 <sup>-</sup>	253.73	1 <sup>-</sup>	[M1]	0.0552	$\alpha(K)=0.0445$ ; $\alpha(L)=0.00801$
816.9 2	1.1 1	1070.5	(2 <sup>-</sup> )	253.73	1 <sup>-</sup>	[M1]	0.0514	$\alpha(K)=0.0415$ ; $\alpha(L)=0.00746$
823.5 3	0.82 8	1077.2	1 <sup>-</sup> ,2	253.73	1 <sup>-</sup>	[D,E2]	0.027 23	$\alpha(E1)=0.00455$ , $\alpha(E2)=0.0133$ . $\alpha(M1)=0.0503$ .
834.7 1	2.8 2	1156.2	2 <sup>+</sup>	321.54	3 <sup>-</sup>			
848.3 5	0.55 8	1970.8	1 <sup>-</sup> ,2 <sup>+</sup>	1122.4	(2 <sup>+</sup> )			
902.6 3	0.80 6	1156.2	2 <sup>+</sup>	253.73	1 <sup>-</sup>			
910.9 2	1.0 2	1122.4	(2 <sup>+</sup> )	211.54	4 <sup>+</sup>			
917.3 5	0.41 8	1238.9	(2)	321.54	3 <sup>-</sup>			
944.6 3	5.0 5	1156.2	2 <sup>+</sup>	211.54	4 <sup>+</sup>			
980.6 5	7.3 7	1048.8	1 <sup>-</sup>	67.67	2 <sup>+</sup>			
991.4 8	0.43 6	1865.0	1,2 <sup>+</sup>	873.7	2 <sup>+</sup>			
1002.2 5	7.5 7	1070.5	(2 <sup>-</sup> )	67.67	2 <sup>+</sup>			
1009.0 5	10.5 10	1077.2	1 <sup>-</sup> ,2	67.67	2 <sup>+</sup>			
<sup>x</sup> 1041.9 5	1.1 2							
1048.1 5	5.8 6	1048.8	1 <sup>-</sup>	0.0	0 <sup>+</sup>			
1083.6 8	0.53 10	1907.8	1,2 <sup>+</sup>	824.6	0 <sup>+</sup>			
1087.9 5	2.1 2	1156.2	2 <sup>+</sup>	67.67	2 <sup>+</sup>			
1109.7 10	0.36 8	1982.7	0 <sup>+</sup> ,1	873.7	2 <sup>+</sup>			
1117.0 10	0.80 20	1437.8	1 <sup>-</sup> ,2	321.54	3 <sup>-</sup>			
1155.8 5	3.0 3	1156.2	2 <sup>+</sup>	0.0	0 <sup>+</sup>			
1168.8 10	0.95 14	1422.5	0,1,2	253.73	1 <sup>-</sup>			
1171.7 10	0.82 12	1238.9	(2)	67.67	2 <sup>+</sup>			
1183.5 8	0.69 7	1437.8	1 <sup>-</sup> ,2	253.73	1 <sup>-</sup>			
1231.9 5	0.93 9	2056.8	1,2 <sup>+</sup>	824.6	0 <sup>+</sup>			
1299.6 5	1.5 2	1621.3	1 <sup>-</sup> ,2 <sup>+</sup>	321.54	3 <sup>-</sup>			
1322.5 5	13.4 12	1390.0	2 <sup>+</sup>	67.67	2 <sup>+</sup>			
1333.6 5	1.1 2	1587.3	1,2 <sup>+</sup>	253.73	1 <sup>-</sup>			
1365.0 10	0.50 20	2189.4	2 <sup>+</sup>	824.6	0 <sup>+</sup>			
1368.3 10	0.80 20	1621.3	1 <sup>-</sup> ,2 <sup>+</sup>	253.73	1 <sup>-</sup>			
1390.7 10	7.7 7	1390.0	2 <sup>+</sup>	0.0	0 <sup>+</sup>			
<sup>x</sup> 1413.3 15	0.42 8							
1465.2 15	1.4 3	1786.1	1 <sup>-</sup> ,2 <sup>+</sup>	321.54	3 <sup>-</sup>			
1471.1 10	3.2 5	1723.4	2 <sup>+</sup>	253.73	1 <sup>-</sup>			
1486.2 15	0.55 8	1738.5	1,2 <sup>+</sup>	253.73	1 <sup>-</sup>			
1503.2 10	1.8 2	1756.2	1,2 <sup>+</sup>	253.73	1 <sup>-</sup>			
1513.4 10	2.8 3	1767.1	0,1,2	253.73	1 <sup>-</sup>			
1524.7 10	3.1 4	1778.4	0,1,2	253.73	1 <sup>-</sup>			
1532.4 10	2.2 4	1786.1	1 <sup>-</sup> ,2 <sup>+</sup>	253.73	1 <sup>-</sup>			
1554.4 15	0.37 8	1621.3	1 <sup>-</sup> ,2 <sup>+</sup>	67.67	2 <sup>+</sup>			
1576.0 10	0.69 20	1897.4	1 <sup>-</sup> ,2 <sup>+</sup>	321.54	3 <sup>-</sup>			
1587.0 15	0.17 4	1587.3	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>			
1610.7 10	1.9 2	1865.0	1,2 <sup>+</sup>	253.73	1 <sup>-</sup>			
1620.9 15	0.44 6	1621.3	1 <sup>-</sup> ,2 <sup>+</sup>	0.0	0 <sup>+</sup>			
1628.2 15	0.41 6	1951.0	1 <sup>-</sup> ,2 <sup>+</sup>	321.54	3 <sup>-</sup>			
1634.7 15	0.66 10	1888.4	0,1,2	253.73	1 <sup>-</sup>			
1648.9 15	0.66 9	1970.8	1 <sup>-</sup> ,2 <sup>+</sup>	321.54	3 <sup>-</sup>			
1655.0 10	1.7 2	1723.4	2 <sup>+</sup>	67.67	2 <sup>+</sup>			
1670.4 10	1.6 2	1738.5	1,2 <sup>+</sup>	67.67	2 <sup>+</sup>			
<sup>x</sup> 1680.4 15	0.44 9							
1685.2 15	0.39 8	1897.4	1 <sup>-</sup> ,2 <sup>+</sup>	211.54	4 <sup>+</sup>			

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$^{226}\text{Fr} \beta^-$  decay (continued) $\gamma(^{226}\text{Ra})$  (continued)

$E_\gamma^\dagger$	$I_\gamma^\ddagger a$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	$E_\gamma^\dagger$	$I_\gamma^\ddagger a$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
1692.6 10	2.6 3	1945.6	1,2 <sup>+</sup>	253.73	1 <sup>-</sup>	<sup>x</sup> 1939.3 15	0.78 11				
1697.3 10	1.4 2	1951.0	1 <sup>-</sup> ,2 <sup>+</sup>	253.73	1 <sup>-</sup>	1944.0 15	0.37 10	1945.6	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>
1716.8 10	3.2 3	1970.8	1 <sup>-</sup> ,2 <sup>+</sup>	253.73	1 <sup>-</sup>	1951.1 15	0.53 10	1951.0	1 <sup>-</sup> ,2 <sup>+</sup>	0.0	0 <sup>+</sup>
1722.1 15	0.83 12	1723.4	2 <sup>+</sup>	0.0	0 <sup>+</sup>	1971.1 10	1.3 2	1970.8	1 <sup>-</sup> ,2 <sup>+</sup>	0.0	0 <sup>+</sup>
1728.4 10	1.0 1	1982.7	0 <sup>+</sup> ,1	253.73	1 <sup>-</sup>	1990.3 10	0.89 9	2056.8	1,2 <sup>+</sup>	67.67	2 <sup>+</sup>
1738.3 10	3.1 3	1738.5	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>	<sup>x</sup> 2002.3 10	0.41 5				
1753.0 15	1.4 5	2006.7	0,1,2	253.73	1 <sup>-</sup>	2014.4 15	0.51 10	2269.7	1,2 <sup>+</sup>	253.73	1 <sup>-</sup>
1755.4 10	6.3 9	1756.2	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>	2017.6 10	1.2 2	2086.1	1,2 <sup>+</sup>	67.67	2 <sup>+</sup>
1761.5 15	0.83 12	2015.2	0,1,2	253.73	1 <sup>-</sup>	2056.9 15	0.40 6	2056.8	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>
1785.2 15	0.38 8	1786.1	1 <sup>-</sup> ,2 <sup>+</sup>	0.0	0 <sup>+</sup>	<sup>x</sup> 2067.2 15	0.17 4				
1797.2 15	0.49 7	1865.0	1,2 <sup>+</sup>	67.67	2 <sup>+</sup>	<sup>x</sup> 2077.3 15	0.29 4				
1839.6 10	0.84 8	1907.8	1,2 <sup>+</sup>	67.67	2 <sup>+</sup>	2087.8 15	0.21 5	2086.1	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>
1865.5 10	1.1 1	1865.0	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>	<sup>x</sup> 2095.7 15	0.37 6				
1883.9 10	1.7 2	1951.0	1 <sup>-</sup> ,2 <sup>+</sup>	67.67	2 <sup>+</sup>	2120.9 10	0.67 9	2189.4	2 <sup>+</sup>	67.67	2 <sup>+</sup>
1897.8 15	0.50 10	1897.4	1 <sup>-</sup> ,2 <sup>+</sup>	0.0	0 <sup>+</sup>	<sup>x</sup> 2132.7 15	0.29 4				
1903.4 10	4.1 4	1970.8	1 <sup>-</sup> ,2 <sup>+</sup>	67.67	2 <sup>+</sup>	<sup>x</sup> 2143.4 10	0.48 5				
1907.4 15	0.37 7	1907.8	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>	2190.9 15	0.21 3	2189.4	2 <sup>+</sup>	0.0	0 <sup>+</sup>
1914.8 15	0.38 6	1982.7	0 <sup>+</sup> ,1	67.67	2 <sup>+</sup>	2202.2 10	0.85 9	2269.7	1,2 <sup>+</sup>	67.67	2 <sup>+</sup>
<sup>x</sup> 1925.6 10	1.6 2					<sup>x</sup> 2223.0 10	0.22 3				
1928.6 15	0.65 13	2182.3	0,1,2	253.73	1 <sup>-</sup>	2272.0 20	0.23 7	2269.7	1,2 <sup>+</sup>	0.0	0 <sup>+</sup>

<sup>†</sup> From 1981Ku02, 1980KuZL. Other measurement: 1975We23.

<sup>‡</sup> Listed by 1980KuZL.

# From ce work in  $^{230}\text{Th}$   $\alpha$  decay and  $^{226}\text{Ac}$   $\varepsilon$  decay.

@ Measured by 1977Ku25 in  $^{230}\text{Th}$   $\alpha$  decay.

& Not observed in  $^{226}\text{Fr} \beta^-$  decay; the energy is from the adopted gammas.

<sup>a</sup> For absolute intensity per 100 decays, multiply by 0.163 25.

<sup>b</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

<sup>x</sup>  $\gamma$  ray not placed in level scheme.

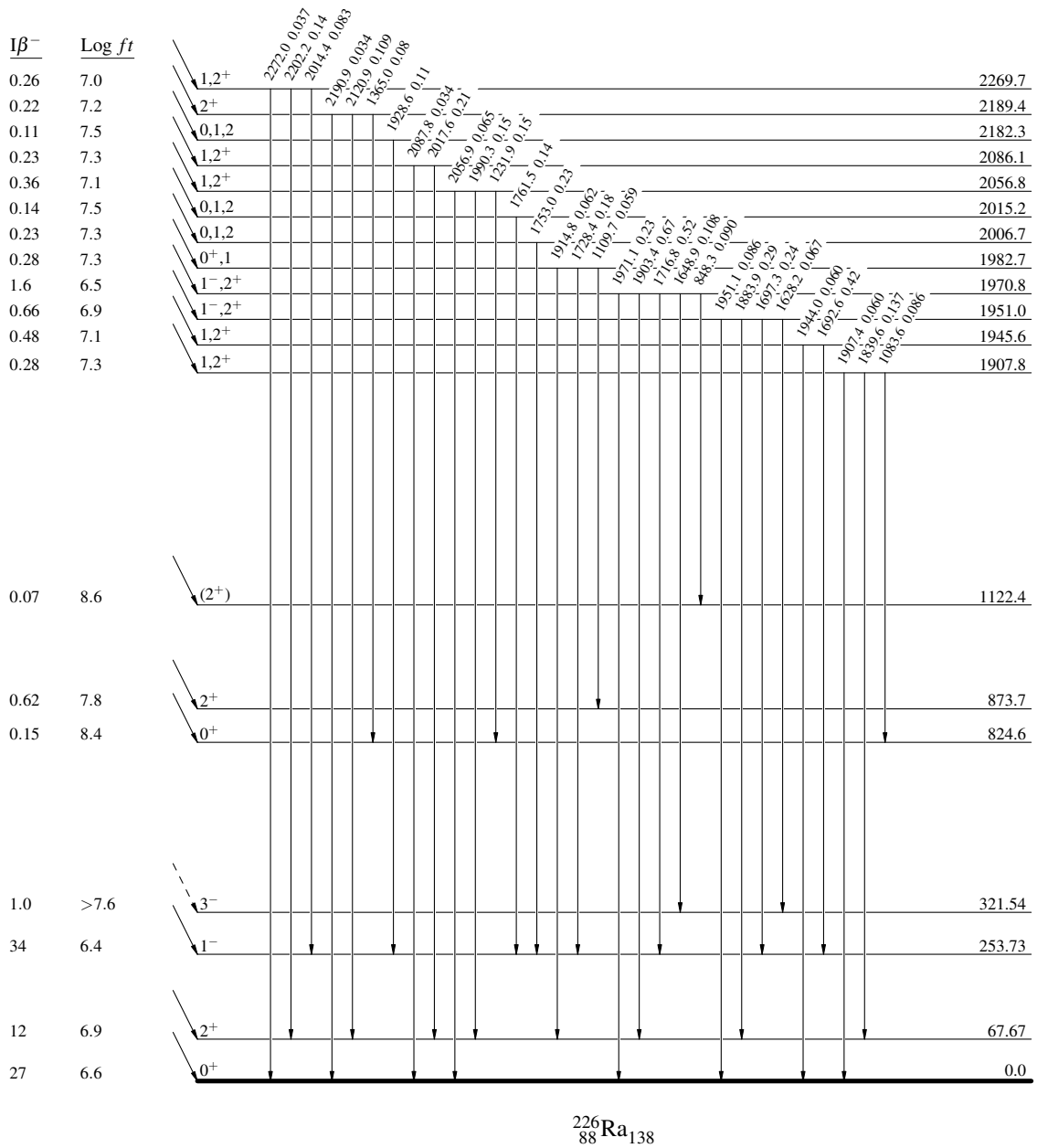
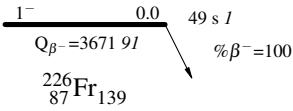
$^{226}\text{Fr}$   $\beta^-$  decay

Decay Scheme

Intensities:  $I_{(\gamma+ce)}$  per 100 parent decays

Legend

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



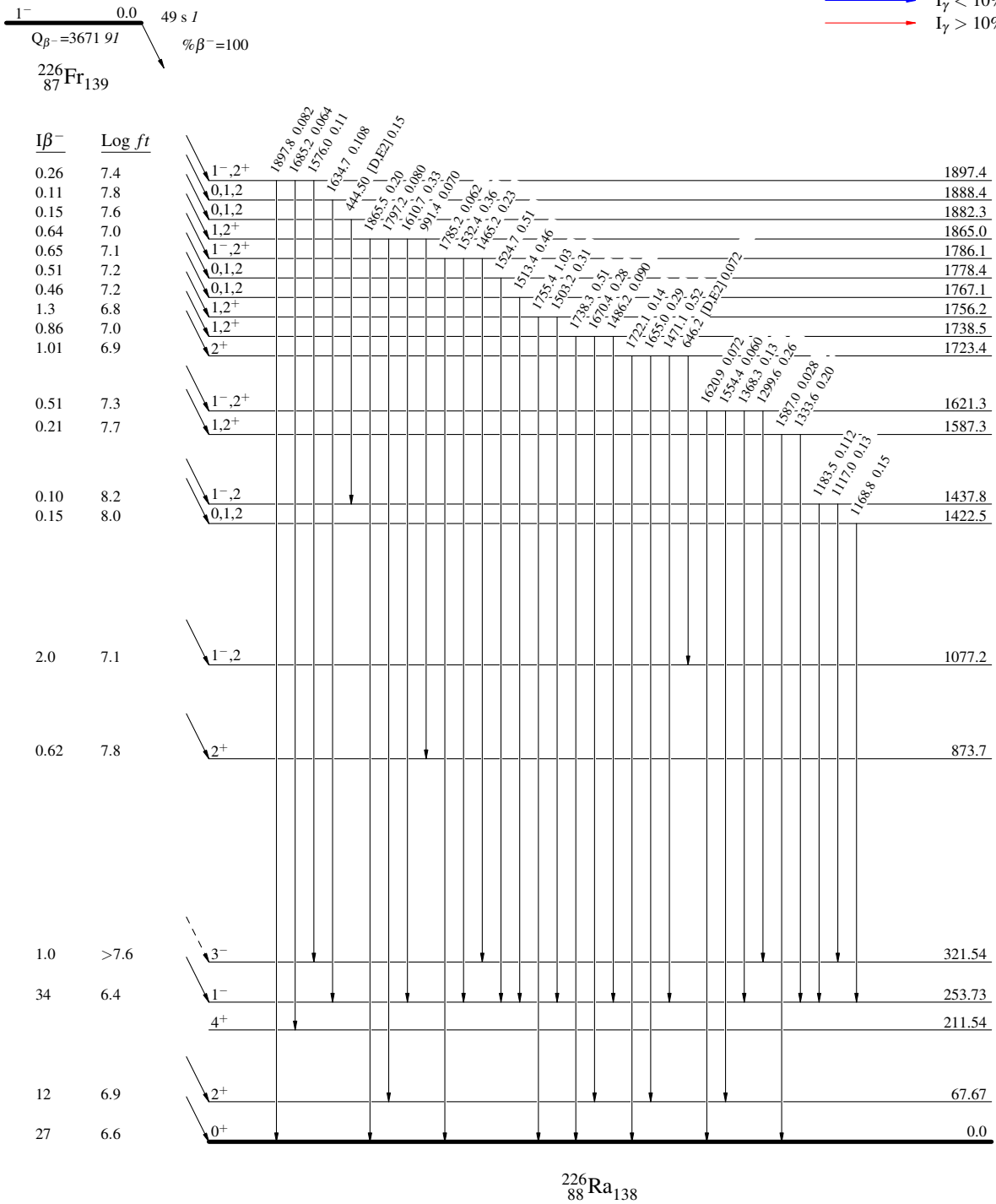
$^{226}\text{Fr} \beta^-$  decay

## Decay Scheme (continued)

Intensities:  $I_{(\gamma+ce)}$  per 100 parent decays

Legend

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



$^{226}\text{Fr} \beta^-$  decay

Decay Scheme (continued)

Intensities:  $I_{(\gamma+ce)}$  per 100 parent decays

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$  (black arrow)
- $I_\gamma < 10\% \times I_\gamma^{max}$  (blue arrow)
- $I_\gamma > 10\% \times I_\gamma^{max}$  (red arrow)
- $\gamma$  Decay (Uncertain) (dashed arrow)

