^{76}As β^- decay (26.24 h) 1982We14,1980Ka36,1973Na04

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 74,63 (1995)	22-Dec-1994

Parent: ^{76}As: E=0.0; $J^\pi=2^-$; $T_{1/2}$=26.24 h *9*; Q(β^-)=2962.0 *8*; %β^- decay=100.0

Additional information 1.

γ, $\gamma\gamma$, decay scheme: 1982We14, 1980Ka36, 1973Na04, 1972Ar03, 1972Fu03 and 1971Fu03. 1982We14 and 1973Na04 use Ge(Li)-Ge(Li) system for $\gamma\gamma$.

$\gamma(\theta$,T): 1987Su05, 1978Mo11, 1976Ba15.

$\gamma\gamma(\theta)$ ($\gamma e^-\geq$system): 1989Za03.

$\gamma\gamma(\theta)$(Ge(Li)-NaI system): 1980Ka36, 1977CoZK and 1977CoZO, 1973Na04. Others (NaI-NaI system): 1960Gr07, 1958Fu62, 1958Co65, 1957Li35.

$\gamma\gamma(\theta$,H) (g factor): 1967Mu10.

$\beta\gamma(\theta)$: 1982JoZZ (1976JoZZ), 1972Kh02, 1965Ra03, 1964Ra06, 1963Gr37, 1963Fi01, 1961Pi05, 1960Sp02, 1960Sp01. Theory: 1970Ba45, 1970Ko20.

$\beta\gamma(\theta)$: 1982JoZZ, 1972Kh02, 1965Ra03, 1964Ra06, 1963Gr37, 1963Fi01, 1961Pi05, 1960Sp02, 1960Sp01. Theory: 1970Ba45, 1970Ko20.

$\beta\gamma$(CP,θ): 1978Pr06, 1971Sm03, 1962De06.

$\beta\gamma$(CP,θ): 1978Pr06, 1971Sm03, 1962De06.

$\beta\gamma$(lin pol,θ): 1953Ha40.

$\beta\gamma$(lin pol,θ): 1953Ha40.

β^- data: 1969Na11, 1962Ku06, 1971Mo25, 1971Mc18, 1956Po07, 1955Co55, 1952To18(spectral shape), 1949Ma03, 1943Ma11, 1942We01, 1955Ku10, 1953Hu47, 1957Gr76.

ce data: 1957Gr76, 1952To18.

α(pair): 1963Ba30. Coefficients given for 1220, 1420, 1788, 1970 and 2060 γ's. All these correspond to unresolved multiplets; therefore, no conclusion can be drawn about multipolarities.

$T_{1/2}$ and production of ^{76}As: 1972Em01, 1970Mc01, 1969Na11, 1968Da24, 1967Or04, 1966La22, 1957Wr37, 1955Dz48, 1953Hu47, 1948Ph08, 1943Ma11, 1942We01, 1940Mi04, 1935Am01.

Others (mainly γ,$\gamma\gamma$): 1979Ch35, 1977CoZK, 1972MoZD, 1971Mo25, 1971Mc18, 1971Ii01, 1971Dz08, 1971McYH, 1971FuZP, 1969GuZV, 1967Mu10, 1967At05, 1966La22, 1964Vi03, 1962Ku06, 1960Ba13, 1960De09, 1960Cr06, 1959Gi45, 1958Bo72, 1958Gu14, 1957Ma16, 1957Ba04, 1957Gr76, 1957Wr37, 1955Dz48, 1955Ku10, 1955Dz48, 1953Ro10, 1953Hu47, 1952Hu02, 1949Ma03, 1948Ph08, 1943Ma11, 1940Mi04, 1935Am01.

List of references prior to 1960 may be incomplete; however, no essential experimental information has been omitted.

^{76}Se Levels

The following levels proposed by different groups of experimenters have been discarded by the evaluator for lack of confirmatory evidence: 2080, 2124, 2183 (from 1980Ka36); 1791, 2448, 2527, 2542 (by 1972Fu03,1971Fu03); 2088, 2542 (by 1971Ii01); 2059, 2866 (by 1971Mc18); 1113.9, 1779.7, 2443.7, 2454.5 (by 1971Mo25). None of these levels appears in other types of studies on ^{76}Se.

E(level)†	J^π‡	Comments
0.0	0^+	
559.06 *5*	2^+	g=+0.40 *12* g-factor: ($\gamma\gamma(\theta$,H) 1967Mu10). $T_{1/2}$: 23 ps *15* ($\gamma\beta$(t),1955Co55).
1122.31 *5*	0^+	
1216.15 *5*	2^+	
1330.78 *5*	4^+	
1688.95 *5*	3^+	
1787.65 *5*	2^+	
1881.2 *4*	(1,2,3)	

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^{76}As β^- decay (26.24 h) 1982We14,1980Ka36,1973Na04 (continued)

^{76}Se Levels (continued)

E(level)[†]	J$^\pi$[‡]	Comments
2025.96 *8*	4^+	
2126.99 *9*	(2^+)	
2170.56 *19*	(0^+)	
2346.9? *8*		
2362.95 *7*	$(2^+,3^+)$	J$^\pi$: $\gamma(\theta)$ and $\gamma\gamma(\theta)$ consistent with J=2,3 but not J=4.
2429.07 *4*	3^-	
2514.66 *8*	$(2)^+$	
2655.32 *4*	1	
2669.82 *4*	2^-	

[†] From least-squares fit to Eγ's.
[‡] From Adopted Levels.

β^- radiations

E(decay)	E(level)	Iβ^-[†]	Log *ft*	Comments
(292.2 *8*)	2669.82	0.54 *4*	6.53 *4*	av Eβ=85.6 *3* See comment on 320β.
320 *30*	2655.32	1.03 *6*	6.32 *3*	av Eβ=90.4 *3* E(β) from 1969Na11 ($\beta\gamma$ data). This β^- component most likely feeds both levels at 2655 and 2670.
(447.3 *8*)	2514.66	0.027 *3*	8.45 *5*	av Eβ=139.6 *3*
540 *25*	2429.07	1.69 *12*	6.92 *3*	av Eβ=171.1 *3* E(β) from 1969Na11 ($\beta\gamma$ data). Iβ=3 (1969Na11).
(599.1 *8*)	2362.95	0.070 *7*	8.48 *5*	av Eβ=196.2 *3*
(615.1[‡] *11*)	2346.9?	0.022 *14*	9.0 *3*	av Eβ=202.4 *5*
(791.4 *8*)	2170.56	0.0036 *20*	10.2 *3*	av Eβ=272.3 *4*
(835.0 *8*)	2126.99	0.006 *4*	10.1 *3*	av Eβ=290.0 *4*
(936.0 *8*)	2025.96	0.0036 *20*	11.0^{1u} *3*	av Eβ=354.4 *4*
(1080.8[‡] *9*)	1881.2	<0.07	>9.4	av Eβ=393.1 *4*
1184 *20*	1787.65	1.77 *13*	8.16 *4*	av Eβ=433.4 *4* E(β) from 1969Na11 ($\beta\gamma$ data). Iβ=3 (1969Na11).
(1273.1 *8*)	1688.95	<0.046	>9.9	av Eβ=476.4 *4*
(1631.2 *8*)	1330.78	0.054 *11*	11.16^{1u} *9*	av Eβ=653.0 *4*
1785 *7*	1216.15	7.5 *5*	8.21 *3*	av Eβ=688.5 *4* E(β) from 1969Na11 ($\beta\gamma$ data). Iβ=7 (1969Na11).
(1839.7 *8*)	1122.31	0.81 *8*	10.29^{1u} *5*	av Eβ=746.1 *4*
2410 *4*	559.06	35.2 *16*	8.12 *2*	av Eβ=993.2 *4* E(β) from 1969Na11 ($\beta\gamma$ data). Iβ=31 (1969Na11).
2970 *2*	0.0	51 *2*	9.73^{1u} *2*	av Eβ=1263.8 *4* Eβ from 1969Na11. Iβ from average of 1969Na11,1955Ku10, 1953Hu47,1952To18.

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

^{76}As β^- decay (26.24 h) 1982We14,1980Ka36,1973Na04 (continued)

$\gamma(^{76}Se)$

Iγ normalization: from I(β)=51 *2* to g.s. and Iε(K)/I(β^-)<0.0002 (1957Sc23). Others: 1963Ba30, 1954Mu22, 1951Mi16, 1949Ma03, 1948Wu02, 1947Ba08. For $\varepsilon\leq$0.02% to 2$^+$ level in ^{76}Ge, log *ft*≥7.5.

The following γ's reported by different groups have been omitted here for lack of sufficient evidence: Eγ(Iγ) from 1971Mo25: 448.2(0.05), 530.1(0.05), 543.2(0.05), 554.5(3.6), 641.4(0.07), 654.5(0.52), 675.8(0.04), 733.6(0.06), 765.6(0.08), 780.4(0.04), 847.9(0.09), 850.8(0.10), 908.9(0.10), 1094.4(0.15), 1097.1(0.13), 1112.4(0.06), 1122.0(0.07), 1204.2 (0.10), 1219.8(0.21), 1238.3(0.15), 1325.1(0.07), 1330.8(0.06), 1542.8(0.08), 1689.4(0.08), 1778.2(0.05), 1792.8(0.60), 1884.2(0.04), 2443.7(0.07), 2517.8(0.09). Eγ's from 1971Mc18: 1177, 1550, 1585, 1743, 2306. Eγ's from 1971Ii01: 546.0, 1051.0, 1907.5, 2173.2, 2370.1. Eγ's from others: 1117.2 (1971Fu03); 1583.2 (1967At05); 1074.4, 1089.9 (1965Wh01); 624, 708, 820, 972 (1964Vi03).

E$_\gamma$ [†]	I$_\gamma$ [‡c]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult. [#]	δ	Comments
302.2 *2*	0.020 *3*	2429.07	3$^-$	2126.99	(2$^+$)			
358.4 [bd] *7*	≈0.03	1688.95	3$^+$	1330.78	4$^+$			
403.2 *2*	0.052 *3*	2429.07	3$^-$	2025.96	4$^+$			
437.3 [&d] *10*	0.003 *1*	2126.99	(2$^+$)	1688.95	3$^+$			
456.9 *1*	0.079 *5*	1787.65	2$^+$	1330.78	4$^+$			
[x]463.6 [&d] *7*	0.002 *1*							
466.5 [d] *10*	0.010 *8*	2346.9?		1881.2	(1,2,3)			
472.8 *1*	0.11 *1*	1688.95	3$^+$	1216.15	2$^+$	M1+E2		473$\gamma(\theta)$: A$_2$=−0.28 *44* (1987Su05). δ: +0.01 to +0.73,>+2.5 or<−6.7 (1987Su05).
484.8 *3*	0.013 *3*	2655.32	1	2170.56	(0$^+$)			
559.10 *5*	100	559.06	2$^+$	0.0	0$^+$	E2		559$\gamma(\theta)$: A$_2$=−0.472 *8*, A$_4$=−0.75 *6*(1976Ba15). α(K)exp=0.0018 *3* (1957Gr76), 0.0020 *2* (1952To18). I$_\gamma$: 1957Ma16 give absolute intensity as 0.446 per decay, which is most likely the value for all γ's near 559, *i.e.* 559, 563, 571 and 575.
563.23 *5*	2.67 *14*	1122.31	0$^+$	559.06	2$^+$	E2		(563γ)(559γ)(θ): A$_2$=0.23 *6*, A$_4$=1.11 *10* (1989Za03). Additional information 2. 563$\gamma(\theta)$: A$_2$=−0.046 *54* (1976Ba15).
571.5 *1*	0.31 *2*	1787.65	2$^+$	1216.15	2$^+$	D(+Q)	+0.13 *12*	(572γ)(1216γ)(θ): A$_2$=0.145 *22*, A$_4$=0.05 *3* (1989Za03). (572γ)(657γ)(θ): A$_2$=0.04 *7*, A$_4$=0.1 *1* (1977CoZK). 572$\gamma(\theta)$: A$_2$=−0.25 *40* (1987Su05). δ: >+1.37 or −0.13 *34* (1987Su05), +0.13 *12* (1989Za03).
575.30 *5*	0.15 *1*	2362.95	(2$^+$,3$^+$)	1787.65	2$^+$			575$\gamma(\theta)$: A$_2$=0.16 *15* (for 2$^+$ to 2$^+$); 0.20 *18* (for 3$^+$ to 2$^+$) (1987Su05). (575γ)(1228γ)(θ): A$_2$=0.35 *3*, A$_4$=0.01 *5* (1989Za03). δ: for 2$^+$ to 2$^+$; δ=−0.48 *15*,>+10 or<−6. For 3$^+$ to 2$^+$; δ=+0.07 *10* or −3.7 to −13.8 (1987Su05). δ=−1.18 *35* (1989Za03).
[x]602.5 [&d] *4*	0.002 *1*							
639.5 *10*	0.008 *3*	2429.07	3$^-$	1787.65	2$^+$			

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^{76}As β^- decay (26.24 h) 1982We14,1980Ka36,1973Na04 (continued)

$\gamma(^{76}Se)$ (continued)

E_γ [†]	I_γ [‡c]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [#]	δ	Comments
657.05 *5*	13.7 *7*	1216.15	2^+	559.06	2^+	E2+M1(+E0)	+5.2 *2*	(657γ)(559γ)(θ): A_2=−0.225 *15*, A_4=0.31 *3* (1989Za03). Additional information 3. 657γ(θ): A_2=−0.182 *16* (1987Su05); A_2=−0.111 *9*, A_4=−0.40 *26* (1976Ba15). δ: +5.2 *2* (1976Ba15), +4.15 *20* (1987Su05), +5.3 *5* (1989Za03).
665 *1*	0.08 *8*	1881.2	(1,2,3)	1216.15	2^+			From $\gamma\gamma$ (1973Na04,1989Za03). (665γ)(1216γ)(θ): A_2=−0.10 *4*, A_4=0.02 *6* (1989Za03). δ: −0.13 *9* (1 to 2^+), +0.49 *6* (2 to 2^+), −0.03 *10* (3 to 2^+) (1989Za03).
665.34 *5*	0.81 *7*	1787.65	2^+	1122.31	0^+			665γ(θ): A_2=−0.65 *10* (1987Su05). (665γ)[563γ](559γ)(θ): A_2=−0.013 *6*, A_4=0.046 *10* (1989Za03).
695.2 *1*	0.020 *2*	2025.96	4^+	1330.78	4^+			
727.00 *7*	0.041 *3*	2514.66	$(2)^+$	1787.65	2^+			727γ(θ): A_2=−1.4 *6* (1987Su05). δ: >+3.0 or<−0.10 (1987Su05).
740.10 *5*	0.26 *2*	2429.07	3^-	1688.95	3^+	D+Q	−0.21 *12*	740γ(θ): A_2=−0.49 *13* (1987Su05), −0.20 *12* (1976Ba15). (740γ)[1130γ](559γ)(θ): A_2=0.143 *20*, A_4=−0.03 *3* (1989Za03). δ: +0.08 *16* (1987Su05), −0.21 *12* (1989Za03).
[x]755.0 *5*	0.001 *1*							
771.74 *5*	0.27 *2*	1330.78	4^+	559.06	2^+	E2		(772γ)(559γ)(θ): A_2=0.105 *19*, A_4=−0.01 *3* (1989Za03). Additional information 4. δ(M3/E2)<+0.02 (1989Za03).
[x]776.5[ad] *5*	0.002 *1*							
797.0 *4*	0.010 *7*	2126.99	(2^+)	1330.78	4^+			
809.8 *1*	0.038 *2*	2025.96	4^+	1216.15	2^+			
[x]852.8[ad] *10*	0.005 *3*							
[x]857.0[ad] *8*	0.002 *2*							
[x]863.8 *4*	0.025 *2*							
867.64 *8*	0.29 *2*	2655.32	1	1787.65	2^+	D(+Q)	+0.08 *7*	868γ(θ): A_2=0.42 *26* (1987Su05). (868γ)(1228γ)(θ): A_2=0.133 *23*, A_4=0.00 *4* (1989Za03). (868γ)[1228γ](559γ)(θ): A_2=−0.095 *18*, A_4=−0.016 *27* (1989Za03). δ: +0.4 *+6−3* (1987Su05), +0.08 *7* (1989Za03).
882.13 *5*	0.13 *1*	2669.82	2^-	1787.65	2^+	D+Q	+0.26 *15*	882γ(θ): A_2=−0.5 *4* (1987Su05). (882γ)(1228γ)(θ): A_2=0.00 *3*, A_4=0.00 *6* (1989Za03). (882γ)[1228γ](559γ)(θ): A_2=0.010 *25*, A_4=−0.08 *4* (1989Za03). δ: <+5.3 or>−0.24 (1987Su05), +0.26 *15* (1989Za03).
[x]907.5[ad] *4*	0.004 *3*							
[x]921.6[&d] *4*	0.002 *1*							
954.6[d] *3*	0.004 *3*	2170.56	(0^+)	1216.15	2^+			

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^{76}As β^- decay (26.24 h) 1982We14,1980Ka36,1973Na04 (continued)

$\gamma(^{76}Se)$ (continued)

E_γ †	I_γ ‡c	E_i(level)	J_i^π	E_f	J_f^π	Mult.#	δ	Comments
x957.6ad 5	0.004 2							
980.9 1	0.092 5	2669.82	2^-	1688.95	3^+	(D)		981$\gamma(\theta)$: A_2=−0.3 7 (1987Su05). δ: >+16.4 or<+0.24 (1987Su05).
1030.6 10	0.002 1	2362.95	$(2^+,3^+)$	1330.78	4^+			
x1060.6ad 3	0.004 1							
1098.2 2	0.008 1	2429.07	3^-	1330.78	4^+			
1129.87 5	0.28 3	1688.95	3^+	559.06	2^+	M1+E2	+1.08 10	1130$\gamma(\theta)$: A_2=−0.73 15 (1987Su05). δ: from (1130γ)(559γ)(θ): A_2=0.240 19, A_4=−0.06 3 (1989Za03). Additional information 5. δ: +0.57 to +3.55 (1987Su05), +1.08 10 (1989Za03).
1130@d 1	0.04 3	2346.9?		1216.15	2^+			From $\gamma\gamma$ (1973Na04).
1212.92 5	3.2 2	2429.07	3^-	1216.15	2^+	D(+Q)	+0.025 20	1213$\gamma(\theta)$: A_2=0.12 17 (1987Su05). (1213γ)(657γ)(θ): A_2=−0.011 8, A_4=0.020 13 (1989Za03). Additional information 7. (1213γ)(1216γ)(θ): A_2=−0.058 8, A_4=0.13 13 (1989Za03). (1213γ)[657γ](559γ)(θ): A_2=−0.051 8, A_4=0.081 12 (1989Za03). δ: +0.11 10 (1987Su05), +0.025 20 (1989Za03).
1216.08 5	7.6 4	1216.15	2^+	0.0	0^+	E2		(1213γ+1216γ)(θ): A_2=−0.311 14, A_4=−1.06 33 (1976Ba15).
1228.52 5	2.7 2	1787.65	2^+	559.06	2^+	M1+E2	−0.51 5	δ: weighted average of results from $\gamma(\theta)$ and $\gamma\gamma(\theta)$. (1229γ)(559γ)(θ): A_2=0.471 7, A_4=0.097 11 (1989Za03). Additional information 6. 1229$\gamma(\theta)$: A_2=0.21 5 (1987Su05), 0.17 4 (1976Ba15).
1393d 2		2514.66	$(2)^+$	1122.31	0^+			From 1972Ar03 only ($\gamma\gamma$).
1439.10 5	0.62 3	2655.32	1	1216.15	2^+	D		1439$\gamma(\theta)$: A_2=0.06 10 (1987Su05). (1439γ)(1216γ)(θ): A_2=−0.27 4, A_4=0.01 6 (1989Za03). Additional information 8. (1439γ)[657γ](559γ)(θ): A_2=−0.028 19, A_4=0.01 3 (1989Za03). δ: −0.02 10 (1987Su05), +0.01 3 (1989Za03), +0.13 9 (1980Ka36).
1453.62 5	0.24 2	2669.82	2^-	1216.15	2^+	D		1454$\gamma(\theta)$: A_2=−0.28 15 (1987Su05). (1454γ)(1216γ)(θ): A_2=0.22 4, A_4=−0.04 7 (1989Za03). (1454γ)[657γ](559γ)(θ): A_2=−0.05 3, A_4=−0.05 5 (1989Za03). δ: −0.11 12 (1987Su05), +0.05 2 (1989Za03).
1467.0 10	0.002 1	2025.96	4^+	559.06	2^+			
1532.8 2	0.054 3	2655.32	1	1122.31	0^+	D		1533$\gamma(\theta)$: A_2=0.2 7 (1987Su05). δ: 0.0 (1987Su05).
x1563 1	0.004 1							

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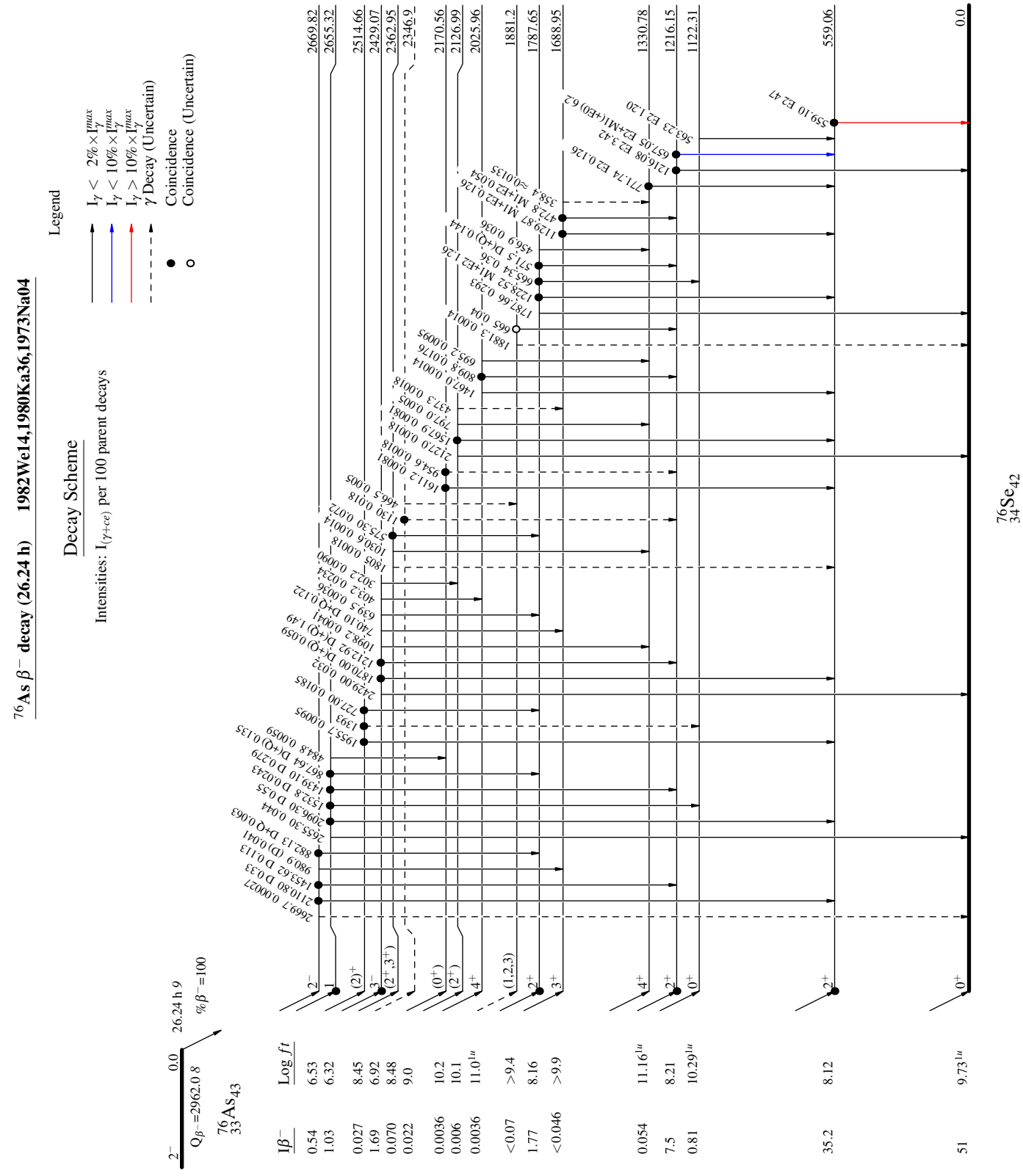
^{76}As β^- decay (26.24 h) 1982We14,1980Ka36,1973Na04 (continued)

$\gamma(^{76}Se)$ (continued)

E_γ[†]	I_γ[‡c]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ	Comments
1567.9 *1*	0.017 *1*	2126.99	(2^+)	559.06	2^+			
1611.2 *4*	0.017 *1*	2170.56	(0^+)	559.06	2^+			
1787.66 *8*	0.65 *4*	1787.65	2^+	0.0	0^+			1788$\gamma(\theta)$: A_2=−0.61 *14* (1976Ba15).
1805[@d] *2*	0.003 *2*	2362.95	$(2^+,3^+)$	559.06	2^+			
1870.00 *5*	0.12 *1*	2429.07	3^-	559.06	2^+	D(+Q)	+0.17 *3*	1870$\gamma(\theta)$: A_2=0.34 *15* (1987Su05). (1870γ)(559γ)(θ): A_2=0.05 *4*, A_4=0.01 *6* (1989Za03). δ: +0.00 *8* (1987Su05), +0.17 *3* (1989Za03).
1881.3[ad] *4*	0.002 *1*	1881.2	(1,2,3)	0.0	0^+			
1955.7 *3*	0.020 *2*	2514.66	$(2)^+$	559.06	2^+			
2096.30 *5*	1.22 *7*	2655.32	1	559.06	2^+	D		2096$\gamma(\theta)$: A_2=0.07 *8* (1987Su05), 0.09 *8* (1976Ba15). (2096γ)(559γ)(θ): A_2=−0.258 *12*, A_4=−0.034 *19* (1989Za03). Additional information 9. δ: 0.00 *8* (1987Su05), +0.02 *6* (1989Za03).
2110.80 *5*	0.73 *5*	2669.82	2^-	559.06	2^+	D		2111$\gamma(\theta)$: A_2=−0.39 *20* (1987Su05), −0.29 *9* (1976Ba15). (2111γ)(559γ)(θ): A_2=0.320 *16*, A_4=−0.047 *26* (1989Za03). Additional information 10. δ: −0.02 *16* (1987Su05), −0.09 *2* (1989Za03).
2127.0 *5*	0.003 *1*	2126.99	(2^+)	0.0	0^+			
2429.00 *8*	0.070 *6*	2429.07	3^-	0.0	0^+			
2655.30 *8*	0.097 *5*	2655.32	1	0.0	0^+			
2669.7[@d] *5*	0.0006 *1*	2669.82	2^-	0.0	0^+			I_γ: 0.006 *1* (1972Ar03), 0.003 *1* (1982We14). Large discrepancy in Iγ′s may be due to a contribution from coincidental summing of 2110γ and 559γ. This γ has not been reported in ^{76}Br ε decay or in other γ-ray studies. The evaluator considers this γ as uncertain and is, therefore, not included in adopted gammas.

[†] Whenever possible weighted averages have been taken from 1982We14, 1980Ka36, 1973Na04, 1972Ar03 and 1971Fu03. On account of large deviations and/or impurities in source material, data from 1977CoZK, 1971Ii01, 1971Mo25 and 1971Mc18 were generally not used. In some cases uncertainties given by 1982We14 and 1980Ka36 are too low to be realistic. The evaluator has arbitrarily assigned a minimum uncertainty of 0.05 keV on energy and 5% on intensities.
[‡] See comment for Eγ.
[#] From adopted gammas.
[@] γ reported by 1973Na04 only.
[&] γ reported by 1982We14 only.
[a] γ reported by 1980Ka36 only.
[b] γ reported by 1971Fu03 only.
[c] For absolute intensity per 100 decays, multiply by 0.45 *2*.
[d] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.


^{76}As β− decay (26.24 h) 1982We14,1980Ka36,1973Na04
Decay Scheme
Intensities: I(γ+ce) per 100 parent decays
Legend
Iγ < 2%×Iγmax
Iγ < 10%×Iγmax
Iγ > 10%×Iγmax
γ Decay (Uncertain)
Coincidence
Coincidence (Uncertain)
2− 0.0 26.24 h 9
Qβ−=2962.0 8 %β−=100
$^{76}_{33}As_{43}$
Iβ− Log ft
0.54 6.53
1.03 6.32
0.027 8.45
1.69 6.92
0.070 8.48
0.022 9.0
0.0036 10.2
0.006 10.1
0.0036 11.0 1u
<0.07 >9.4
1.77 8.16
<0.046 >9.9
0.054 11.16 1u
7.5 8.21
0.81 10.29 1u
35.2 8.12
51 9.73 1u
2669.7 0.0027
2110.80 D 0.33
1453.62 D 0.113
980.9 (D) 0.041
882.13 D+Q 0.063
2655.30 0.044
2096.30 D 0.55
1532.8 D 0.0243
1439.10 D 0.279
867.64 D+Q 0.135
484.8 0.0059
1955.7 0.0095
1393 0.0095
727.00 0.0185
2429.00 0.032
1870.00 0.032
1212.92 D(+Q) 0.059
1098.2 0.0041 1.49
740.10 D+Q 0.041
639.5 0.0036 0.122
403.2 0.0234
302.2 0.0090
1805 0.0018
1030.6 0.0014
575.30 0.072
1130 0.018
466.5 0.005
1611.2 0.0081
954.6 0.0018
2127.0 0.0018
1567.9 0.0018
797.0 0.005
437.3 0.0018
1467.0 0.0014
809.8 0.0176
695.2 0.0095
1881.3 0.0014
665 0.04
1787.66 0.293
1228.52 M1+E2 1.26
665.34 0.36
571.5 D(+Q) 0.144
456.9 0.036
1129.87 M1+E2 0.126
472.8 M1+E2 0.054
358.4 ≈0.0135
771.74 E2 0.126
1216.08 E2 3.42
657.05 E2+M1(+E0) 6.2
563.23 E2 1.20
559.10 E2 47
2669.82
2655.32
2514.66
2429.07
2362.95
2346.9
2170.56
2126.99
2025.96
1881.2
1787.65
1688.95
1330.78
1216.15
1122.31
559.06
0.0
$^{76}_{34}Se_{42}$