

$^{96}\text{Zr}(^{30}\text{Si},5n\gamma)$ 1995Ti04,1995Ti09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

E=135 MeV; 45 BGO escape-suppressed Ge detectors: measured γ , $\gamma\gamma$, DCO. ^{121}Xe Levels

E(level)	J^{π^e}	E(level)	J^{π^e}	E(level)	J^{π^e}
0.0 [†]	5/2(+)	2748.62 [†] 24	(23/2+)	5784.5 [#] 6	(39/2-)
179.44 [†] 16	7/2(+)	2780.07 [@] 24	(23/2+)	5840.1 [@] 4	(39/2+)
196.12 [#] 19	7/2(-)	2819.85 [‡] 23	(23/2+)	5853.6 ^{&} 3	(39/2+)
235.2 [#] 4	7/2(-),9/2(-)	2834.4 [#] 3	(27/2-)	5979.3 ^a 5	(37/2-)
239.57 [‡] 19	(3/2+)	2882.6 [#] 3	(25/2-)	6344.2 ^{&} 4	(41/2+)
264.85 [#] 24	(11/2-)	2995.1 [@] 3	(25/2+)	6378.0 ^a 7	(39/2-)
414.17 [†] 15	(9/2+)	3102.20 [†] 24	(25/2+)	6858.3 ^{&} 4	(43/2+)
560.55 [‡] 25	(7/2+)	3268.1 [@] 3	(27/2+)	6874.4 [#] 8	(43/2-)
658.1 [#] 3	(13/2-)	3272.75 ^{&} 25	(27/2+)	6927.5 ^a 5	(41/2-)
670.45 [†] 18	(11/2+)	3549.9 ^b 4	(27/2-)	7185.1 ^{&} 4	(45/2+)
687.06 [#] 24	(15/2-)	3592.1 [@] 3	(29/2+)	7353.6 ^a 8	(43/2-)
963.38 [†] 19	(13/2+)	3719.9 ^{&} 4	(29/2+)	7364.0 ^{&} 4	(45/2+)
1021.4 [‡] 3	(11/2+)	3765.3 [#] 4	(31/2-)	7928.0 ^{&} 4	(47/2+)
1265.12 [#] 25	(17/2-)	3837.7 [#] 4	(29/2-)	7944.0 ^a 5	(45/2-)
1274.30 [#] 23	(19/2-)	3965.6 [@] 3	(31/2+)	8341.0 ^{&} 4	(49/2+)
1281.61 [†] 20	(15/2+)	4039.8 ^{&} 3	(31/2+)	8984.4 ^a 5	(49/2-)
1310.2 ^b 3	(15/2-)	4356.2 ^a 4	(29/2-)	9016.0 ^{&} 5	(51/2+)
1590.5 [‡] 3	(15/2+)	4383.4 [@] 4	(33/2+)	9150.1 ^{&} 4	(53/2+)
1618.81 [†] 22	(17/2+)	4497.9 ^{&} 4	(33/2+)	9859.2 ^a 5	(53/2-)
1937.5 ^b 3	(19/2-)	4734.8 ^a 6	(31/2-)	9870.4 ^{&} 5	(55/2+)
1986.28 [†] 21	(19/2+)	4755.0 [#] 5	(35/2-)	10648.2 ^a 5	(57/2-)
1996.3 [#] 3	(23/2-)	4837.7 [#] 6	(33/2-)	10901.1 5	(57/2+)
2015.68 [#] 24	(21/2-)	4842.4 [@] 3	(35/2+)	11145.9 ^d 6	(55/2)
2245.1 [‡] 3	(19/2+)	4901.1 ^{&} 3	(35/2+)	12012.7 ^d 6	
2271.3 8	(19/2+)	5102.7 ^a 4	(33/2-)	12168.6 ^c 6	(59/2+)
2356.26 [†] 23	(21/2+)	5311.5 [#] 8	(33/2-)	12788.0 ^d 8	
2534.6 [@] 3	(19/2+)	5337.2 [@] 4	(37/2+)	12790.4 ^c 6	(63/2+)
2623.7 [@] 3	(21/2+)	5372.8 ^{&} 4	(37/2+)	13651.9 ^c 6	(67/2+)
2700.6 ^b 4	(23/2-)	5501.5 ^a 7	(35/2-)		

[†] Band(A): normal band on 2d_{5/2}.[‡] Band(B): decoupled band on 2d_{3/2}.[#] Band(C): band based on 1h_{11/2}.[@] Band(D): Band based on 19/2⁺. Possible configuration is 2d_{5/2} + (1h_{11/2})².[&] Band(E): band based on 27/2⁺.^a Band(F): band based on 29/2⁻.^b Band(G): band based on 15/2⁻.^c Band(H): band on 12168-keV level.^d Band(I): band on 11144-keV level.^e From Adopted Levels.

$^{96}\text{Zr}(^{30}\text{Si},5n\gamma)$ **1995Ti04,1995Ti09 (continued)** $\gamma(^{121}\text{Xe})$

DCO notations are:

DCO(B)= $I(90^\circ - 134^\circ)/I(134^\circ - 90^\circ)$ in coin spectra for Q 422 γ +587 γ sum gate, where 90° is average of 86° and 94° data.DCO(C)= $I(90^\circ - 134^\circ)/I(134^\circ - 90^\circ)$ in coin spectra for Q 491 γ +611 γ +705 γ +793 γ +487 γ +698 γ +1012 γ +1005 γ sum gate.DCO(D)= $I(90^\circ - 134^\circ)/I(134^\circ - 90^\circ)$ in coin spectra for Q 321 γ gate.DCO(E)= $I(90^\circ - 134^\circ)/I(134^\circ - 90^\circ)$ in coin spectra for Q 569 γ gate.DCO(F)= $I(90^\circ - 134^\circ)/I(134^\circ - 90^\circ)$ in coin spectra for Q 867 γ gate.DCO(G)= $I(90^\circ - 134^\circ)/I(134^\circ - 90^\circ)$ in coin spectra for Q 931 γ gate.DCO(H)= $I(90^\circ - 134^\circ)/I(134^\circ - 90^\circ)$ in coin spectra for Q 621 γ gate.

E_γ	I_γ^{\ddagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	Comments
39.0 10	4 1	235.2	$7/2^{(-)}, 9/2^{(-)}$	196.12	$7/2^{(-)}$		
68.7 3	32 3	264.85	$(11/2^-)$	196.12	$7/2^{(-)}$	Q	Mult.: DCO(B)=1.07 10.
88.6 3	3 1	2623.7	$(21/2^+)$	2534.6	$(19/2^+)$	D(+Q)	Mult.: DCO(B)=0.75 11.
134.4 5	1 1	9150.1	$(53/2^+)$	9016.0	$(51/2^+)$		
155.8 2	6 1	2780.07	$(23/2^+)$	2623.7	$(21/2^+)$	D(+Q)	Mult.: DCO(B)=0.46 4.
170.0 2	14 2	3272.75	$(27/2^+)$	3102.20	$(25/2^+)$	D(+Q)	Mult.: DCO(B)=0.63 3.
179.5 2	≥ 35	179.44	$7/2^{(+)}$	0.0	$5/2^{(+)}$	D(+Q)	Mult.: DCO(B)=0.73 5.
196.1 2	≥ 145	196.12	$7/2^{(-)}$	0.0	$5/2^{(+)}$	D	Mult.: DCO(B)=0.74 3.
214.4 2	14 2	2995.1	$(25/2^+)$	2780.07	$(23/2^+)$	D(+Q)	Mult.: DCO(B)=0.41 4.
234.7 2	19 2	414.17	$(9/2^+)$	179.44	$7/2^{(+)}$	D(+Q)	Mult.: DCO(C)=0.60 4.
239.5 2	≥ 4	239.57	$(3/2^+)$	0.0	$5/2^{(+)}$	D(+Q)	Mult.: DCO(D)=0.79 5.
244.6 10	1 1	2780.07	$(23/2^+)$	2534.6	$(19/2^+)$		
256.3 2	11 1	670.45	$(11/2^+)$	414.17	$(9/2^+)$	D(+Q)	Mult.: DCO(C)=0.51 4.
272.2 2	7 1	3268.1	$(27/2^+)$	2995.1	$(25/2^+)$	D(+Q)	Mult.: DCO(B)=0.31 3.
293.1 2	5 1	963.38	$(13/2^+)$	670.45	$(11/2^+)$	D(+Q)	Mult.: DCO(C)=0.52 10.
318.3 2	7 1	1281.61	$(15/2^+)$	963.38	$(13/2^+)$	D(+Q)	Mult.: DCO(C)=0.50 7.
320.0 10	1 1	4039.8	$(31/2^+)$	3719.9	$(29/2^+)$		
320.9 2	4 1	560.55	$(7/2^+)$	239.57	$(3/2^+)$	Q	Mult.: DCO(C)=0.96 11.
324.8 10	3 1	3592.1	$(29/2^+)$	3268.1	$(27/2^+)$	D(+Q)	Mult.: DCO(B)=0.50 26.
326.7 2	7 1	7185.1	$(45/2^+)$	6858.3	$(43/2^+)$	D(+Q)	Mult.: DCO(B)=0.53 10.
337.6 4	3 1	1618.81	$(17/2^+)$	1281.61	$(15/2^+)$	D(+Q)	Mult.: DCO(B)=0.53 16.
352.4 2	2 1	3102.20	$(25/2^+)$	2748.62	$(23/2^+)$		
367.3 2	4 1	1986.28	$(19/2^+)$	1618.81	$(17/2^+)$	D(+Q)	Mult.: DCO(B)=0.40 9.
367.9 10	2 1	5102.7	$(33/2^-)$	4734.8	$(31/2^-)$	D(+Q)	Mult.: DCO(C)=0.48 10.
370.5 3	6 1	2995.1	$(25/2^+)$	2623.7	$(21/2^+)$	Q	Mult.: DCO(C)=1.05 18.
370.6 4	2 1	2356.26	$(21/2^+)$	1986.28	$(19/2^+)$		
373.3 3	3 1	3965.6	$(31/2^+)$	3592.1	$(29/2^+)$		
378.6 10	1 1	4734.8	$(31/2^-)$	4356.2	$(29/2^-)$		
390.3 3	3 1	3272.75	$(27/2^+)$	2882.6	$(25/2^-)$	D(+Q)	Mult.: DCO(F)=0.76 26.
393.2 2	24 2	658.1	$(13/2^-)$	264.85	$(11/2^-)$	D(+Q)	Mult.: DCO(F)=0.49 8.
393.4 2	4 1	2748.62	$(23/2^+)$	2356.26	$(21/2^+)$		
398.6 10	4 1	5501.5	$(35/2^-)$	5102.7	$(33/2^-)$	D(+Q)	Mult.: DCO(B)=0.41 12.
398.7 10	1 1	6378.0	$(39/2^-)$	5979.3	$(37/2^-)$		
403.0 10	1 1	4901.1	$(35/2^+)$	4497.9	$(33/2^+)$		
412.8 3	6 1	8341.0	$(49/2^+)$	7928.0	$(47/2^+)$	D(+Q)	Mult.: DCO(B)=0.39 10.
414.2 2	7 1	414.17	$(9/2^+)$	0.0	$5/2^{(+)}$		
422.0 10	3 1	2780.07	$(23/2^+)$	2356.26	$(21/2^+)$		
422.2 2	100	687.06	$(15/2^-)$	264.85	$(11/2^-)$	Q	Mult.: DCO(B)=0.97 2.
422.8 4	21 2	658.1	$(13/2^-)$	235.2	$7/2^{(-)}, 9/2^{(-)}$	Q	Mult.: DCO(F)=1.12 9.
426.1 10	4 1	7353.6	$(43/2^-)$	6927.5	$(41/2^-)$		
435.4 10	2 1	670.45	$(11/2^+)$	235.2	$7/2^{(-)}, 9/2^{(-)}$		
446.4 10	9 1	3719.9	$(29/2^+)$	3272.75	$(27/2^+)$	D(+Q)	Mult.: DCO(B)=0.59 12.
452.9 2	19 2	3272.75	$(27/2^+)$	2819.85	$(23/2^+)$	Q	Mult.: DCO(B)=1.12 13.
458.0 2	9 1	4497.9	$(33/2^+)$	4039.8	$(31/2^+)$	D(+Q)	Mult.: DCO(B)=0.55 6.

Continued on next page (footnotes at end of table)

$^{96}\text{Zr}(^{30}\text{Si},5n\gamma)$ **1995Ti04,1995Ti09 (continued)** $\gamma(^{121}\text{Xe})$ (continued)

E_γ	I_γ^\ddagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	Comments
459.0 4	3 1	4842.4	(35/2 ⁺)	4383.4	(33/2 ⁺)		
460.8 2	4 1	1021.4	(11/2 ⁺)	560.55	(7/2 ⁺)		
471.6 2	10 1	5372.8	(37/2 ⁺)	4901.1	(35/2 ⁺)	D(+Q)	Mult.: DCO(B)=0.53 8.
477.7 10	2 1	5979.3	(37/2 ⁻)	5501.5	(35/2 ⁻)	D(+Q)	Mult.: DCO(B)=0.42 9.
480.1 5	1 1	5853.6	(39/2 ⁺)	5372.8	(37/2 ⁺)		
486.7 2	18 2	3268.1	(27/2 ⁺)	2780.07	(23/2 ⁺)	Q	Mult.: DCO(B)=1.11 11.
490.7 2	6 1	6344.2	(41/2 ⁺)	5853.6	(39/2 ⁺)		
491.1 2	16 2	670.45	(11/2 ⁺)	179.44	7/2 ⁽⁺⁾	(Q)	Mult.: DCO(C)=0.89 7.
505.8 2	7 1	7364.0	(45/2 ⁺)	6858.3	(43/2 ⁺)		Mult.: DCO(B)=0.48 12.
513.6 4	6 1	6858.3	(43/2 ⁺)	6344.2	(41/2 ⁺)	D(+Q)	Mult.: DCO(B)=0.46 11.
516.5 4	2 1	5853.6	(39/2 ⁺)	5337.2	(37/2 ⁺)		
522.4 2	4 1	3268.1	(27/2 ⁺)	2748.62	(23/2 ⁺)		
548.5 10	5 1	2819.85	(23/2 ⁺)	2271.3	(19/2 ⁺)		
549.2 2	14 2	963.38	(13/2 ⁺)	414.17	(9/2 ⁺)	Q	Mult.: DCO(C)=1.03 10.
549.4 10	4 1	6927.5	(41/2 ⁻)	6378.0	(39/2 ⁻)		
563.9 3	6 1	7928.0	(47/2 ⁺)	7364.0	(45/2 ⁺)	D(+Q)	Mult.: DCO(B)=0.35 9.
569.0 2	4 1	1590.5	(15/2 ⁺)	1021.4	(11/2 ⁺)	Q	Mult.: DCO(D)=0.94 12.
574.7 2	3 1	2819.85	(23/2 ⁺)	2245.1	(19/2 ⁺)	Q	Mult.: DCO(C)=1.00 18.
578.1 2	14 2	1265.12	(17/2 ⁻)	687.06	(15/2 ⁻)	D(+Q)	Mult.: DCO(B)=0.30 3.
587.2 2	88 9	1274.30	(19/2 ⁻)	687.06	(15/2 ⁻)	Q	Mult.: DCO(B)=0.93 3.
590.3 10	4 1	7944.0	(45/2 ⁻)	7353.6	(43/2 ⁻)	D(+Q)	Mult.: DCO(B)=0.51 7.
590.9 3	3 1	4356.2	(29/2 ⁻)	3765.3	(31/2 ⁻)	D(+Q)	Mult.: DCO(G)=0.74 10.
596.9 2	19 2	3592.1	(29/2 ⁺)	2995.1	(25/2 ⁺)	Q	Mult.: DCO(B)=0.96 10.
607.0 2	35 4	1265.12	(17/2 ⁻)	658.1	(13/2 ⁻)	Q	Mult.: DCO(F)=1.06 18.
611.1 2	21 2	1281.61	(15/2 ⁺)	670.45	(11/2 ⁺)	Q	Mult.: DCO(C)=1.05 6.
621.8 2	13 1	12790.4	(63/2 ⁺)	12168.6	(59/2 ⁺)	Q	Mult.: DCO(C)=1.07 18.
623.7 10	4 1	1281.61	(15/2 ⁺)	658.1	(13/2 ⁻)	D	Mult.: DCO(C)=0.76 22.
627.3 3	5 1	1937.5	(19/2 ⁻)	1310.2	(15/2 ⁻)		
652.2 2	10 1	1310.2	(15/2 ⁻)	658.1	(13/2 ⁻)		
654.5 2	5 1	2245.1	(19/2 ⁺)	1590.5	(15/2 ⁺)	Q	Mult.: DCO(D)=1.04 14.
655.5 2	13 1	1618.81	(17/2 ⁺)	963.38	(13/2 ⁺)	(Q)	Mult.: DCO(C)=1.43 32.
667.7 10	4 1	5979.3	(37/2 ⁻)	5311.5	(33/2 ⁻)	Q	Mult.: DCO(B)=1.08 26.
672.2 3	4 1	1937.5	(19/2 ⁻)	1265.12	(17/2 ⁻)		
675.2 4	4 1	9016.0	(51/2 ⁺)	8341.0	(49/2 ⁺)	D(+Q)	Mult.: DCO(B)=0.68 21.
684.9 4	3 1	2700.6	(23/2 ⁻)	2015.68	(21/2 ⁻)		
698.1 2	23 2	3965.6	(31/2 ⁺)	3268.1	(27/2 ⁺)	Q	Mult.: DCO=0.97 9.
704.6 2	22 2	1986.28	(19/2 ⁺)	1281.61	(15/2 ⁺)	Q	
709.3 3	9 1	9859.2	(53/2 ⁻)	9150.1	(53/2 ⁺)	D(+Q)	Mult.: DCO(C)=0.64 15.
720.3 10	7 1	9870.4	(55/2 ⁺)	9150.1	(53/2 ⁺)		
721.2 10	2 1	1986.28	(19/2 ⁺)	1265.12	(17/2 ⁻)		Mult.: DCO(B)=1.14 6.
722.2 2	67 7	1996.3	(23/2 ⁻)	1274.30	(19/2 ⁻)	Q	Mult.: DCO(B)=0.97 3.
737.8 2	10 1	2356.26	(21/2 ⁺)	1618.81	(17/2 ⁺)		
741.4 3	6 1	2015.68	(21/2 ⁻)	1274.30	(19/2 ⁻)	D(+Q)	Mult.: DCO(B)=0.37 4.
746.2 2	6 1	3102.20	(25/2 ⁺)	2356.26	(21/2 ⁺)		
746.5 2	9 1	5102.7	(33/2 ⁻)	4356.2	(29/2 ⁻)	Q	Mult.: DCO(B)=1.01 12.
750.6 2	31 3	2015.68	(21/2 ⁻)	1265.12	(17/2 ⁻)	(Q)	Mult.: DCO(B)=0.90 18.
763.1 3	4 1	2700.6	(23/2 ⁻)	1937.5	(19/2 ⁻)		
763.1 10	8 1	2780.07	(23/2 ⁺)	2015.68	(21/2 ⁻)	D	Mult.: DCO(C)=0.76 12.
763.8 3	6 1	2748.62	(23/2 ⁺)	1986.28	(19/2 ⁺)		
766.5 10	5 1	5501.5	(35/2 ⁻)	4734.8	(31/2 ⁻)		
766.6 2	35 4	4039.8	(31/2 ⁺)	3272.75	(27/2 ⁺)	Q	Mult.: DCO(B)=1.01 7.
775.2 4	6 1	12788.0		12012.7			
778.0 3	7 1	4497.9	(33/2 ⁺)	3719.9	(29/2 ⁺)	Q	Mult.: DCO(B)=1.35 30.
788.9 2	16 2	10648.2	(57/2 ⁻)	9859.2	(53/2 ⁻)	Q	Mult.: DCO(B)=1.04 10.
791.5 3	13 1	4383.4	(33/2 ⁺)	3592.1	(29/2 ⁺)	Q	Mult.: DCO(B)=0.96 14.
792.6 2	13 1	2780.07	(23/2 ⁺)	1986.28	(19/2 ⁺)	Q	Mult.: DCO(C)=0.98 5.

Continued on next page (footnotes at end of table)

$^{96}\text{Zr}(^{30}\text{Si},5n\gamma)$ **1995Ti04,1995Ti09** (continued) $\gamma(^{121}\text{Xe})$ (continued)

E_γ	I_γ ‡	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. †	Comments
804.1 2	9 1	2819.85	(23/2 ⁺)	2015.68	(21/2 ⁻)	D	Mult.: DCO(B)=0.56 15.
806.1 4	2 1	4356.2	(29/2 ⁻)	3549.9	(27/2 ⁻)		
809.1 2	17 2	9150.1	(53/2 ⁺)	8341.0	(49/2 ⁺)	Q	Mult.: DCO(B)=0.98 15.
833.7 2	7 1	2819.85	(23/2 ⁺)	1986.28	(19/2 ⁺)	(Q)	Mult.: DCO(C)=0.82 17.
838.1 2	43 4	2834.4	(27/2 ⁻)	1996.3	(23/2 ⁻)	Q	Mult.: DCO(B)=0.92 4.
841.0 2	12 1	7185.1	(45/2 ⁺)	6344.2	(41/2 ⁺)		
849.2 3	7 1	3549.9	(27/2 ⁻)	2700.6	(23/2 ⁻)		
854.4 3	10 1	9870.4	(55/2 ⁺)	9016.0	(51/2 ⁺)	(Q)	Mult.: DCO(C)=0.88 27.
861.0 2	26 3	4901.1	(35/2 ⁺)	4039.8	(31/2 ⁺)	Q	Mult.: DCO(B)=0.98 11.
861.5 2	26 3	13651.9	(67/2 ⁺)	12790.4	(63/2 ⁺)		
866.8 3	7 1	12012.7		11145.9	(55/2)		
867.1 2	16 2	2882.6	(25/2 ⁻)	2015.68	(21/2 ⁻)	(Q)	Mult.: DCO(B)=1.06 18.
874.6 4	14 2	9859.2	(53/2 ⁻)	8984.4	(49/2 ⁻)	(Q)	Mult.: DCO(B)=1.00 10.
874.7 2	16 2	5372.8	(37/2 ⁺)	4497.9	(33/2 ⁺)		
876.4 4	6 1	5979.3	(37/2 ⁻)	5102.7	(33/2 ⁻)		
876.4 10	3 1	6378.0	(39/2 ⁻)	5501.5	(35/2 ⁻)		
877.2 2	23 2	4842.4	(35/2 ⁺)	3965.6	(31/2 ⁺)	(Q)	Mult.: DCO(B)=1.06 18.
886.1 4	6 1	2882.6	(25/2 ⁻)	1996.3	(23/2 ⁻)		
897.0 10	2 1	4734.8	(31/2 ⁻)	3837.7	(29/2 ⁻)		
930.9 2	24 2	3765.3	(31/2 ⁻)	2834.4	(27/2 ⁻)	Q	Mult.: DCO(B)=0.96 7.
948.1 2	18 2	6927.5	(41/2 ⁻)	5979.3	(37/2 ⁻)	Q	Mult.: DCO(B)=1.00 9.
952.2 2	11 1	5853.6	(39/2 ⁺)	4901.1	(35/2 ⁺)	Q	Mult.: DCO(B)=1.07 12.
954.0 4	5 1	5337.2	(37/2 ⁺)	4383.4	(33/2 ⁺)		
955.1 3	10 1	3837.7	(29/2 ⁻)	2882.6	(25/2 ⁻)	Q	Mult.: DCO(F)=1.06 14.
971.3 2	17 2	6344.2	(41/2 ⁺)	5372.8	(37/2 ⁺)	(Q)	Mult.: DCO(B)=0.89 13.
975.5 10	4 1	7353.6	(43/2 ⁻)	6378.0	(39/2 ⁻)		
977.2 3	12 1	8341.0	(49/2 ⁺)	7364.0	(45/2 ⁺)	(Q)	Mult.: DCO(B)=0.86 15.
989.7 3	9 1	4755.0	(35/2 ⁻)	3765.3	(31/2 ⁻)	Q	Mult.: DCO(B)=1.00 15.
997.8 3	7 1	5840.1	(39/2 ⁺)	4842.4	(35/2 ⁺)	Q	Mult.: DCO(C)=1.08 24.
1000.0 4	5 1	4837.7	(33/2 ⁻)	3837.7	(29/2 ⁻)		
1002.8 7	4 1	3837.7	(29/2 ⁻)	2834.4	(27/2 ⁻)		
1004.8 2	20 2	6858.3	(43/2 ⁺)	5853.6	(39/2 ⁺)	(Q)	Mult.: DCO(C)=0.89 11.
1006.2 10	5 1	2271.3	(19/2 ⁺)	1265.12	(17/2 ⁻)		
1011.7 2	14 2	5853.6	(39/2 ⁺)	4842.4	(35/2 ⁺)	Q	Mult.: DCO(C)=1.09 9.
1016.4 2	21 2	7944.0	(45/2 ⁻)	6927.5	(41/2 ⁻)	(Q)	Mult.: DCO(B)=0.93 9.
1018.2 4	8 1	6858.3	(43/2 ⁺)	5840.1	(39/2 ⁺)	Q	Mult.: DCO(C)=0.99 10.
1019.6 3	11 1	7364.0	(45/2 ⁺)	6344.2	(41/2 ⁺)	(Q)	Mult.: DCO(B)=0.97 22.
1029.5 4	3 1	5784.5	(39/2 ⁻)	4755.0	(35/2 ⁻)		
1030.8 3	5 1	10901.1	(57/2 ⁺)	9870.4	(55/2 ⁺)	D(+Q)	Mult.: DCO(C)=0.64 17.
1040.3 2	23 2	8984.4	(49/2 ⁻)	7944.0	(45/2 ⁻)	Q	Mult.: DCO(B)=1.04 9.
1069.8 3	12 1	7928.0	(47/2 ⁺)	6858.3	(43/2 ⁺)	Q	Mult.: DCO(C)=0.97 15.
1082.7 2	6 1	2356.26	(21/2 ⁺)	1274.30	(19/2 ⁻)		
1088.1 5	7 1	9016.0	(51/2 ⁺)	7928.0	(47/2 ⁺)	(Q)	Mult.: DCO(C)=0.98 25.
1089.9 5	2 1	6874.4	(43/2 ⁻)	5784.5	(39/2 ⁻)		
1106.3 2	14 2	3102.20	(25/2 ⁺)	1996.3	(23/2 ⁻)	(D)	Mult.: DCO(B)=0.59 6.
1155.9 2	13 1	8341.0	(49/2 ⁺)	7185.1	(45/2 ⁺)	(Q)	Mult.: DCO(C)=0.89 13.
1260.0 2	6 1	2534.6	(19/2 ⁺)	1274.30	(19/2 ⁻)	(D)	Mult.: DCO(B)=1.03 20.
1267.5 3	6 1	12168.6	(59/2 ⁺)	10901.1	(57/2 ⁺)	(D)	Mult.: DCO(C)=0.76 15.
1286.7 3	12 1	11145.9	(55/2)	9859.2	(53/2 ⁻)	D(+Q)	Mult.: DCO(B)=0.67 11.
1348.6 2	5 1	2623.7	(21/2 ⁺)	1274.30	(19/2 ⁻)	D	Mult.: DCO(B)=0.66 12.
1520.4 4	6 1	12168.6	(59/2 ⁺)	10648.2	(57/2 ⁻)	D(+Q)	Mult.: DCO(H)=0.59 8.
1521.6 4	4 1	4356.2	(29/2 ⁻)	2834.4	(27/2 ⁻)	(D)	Mult.: DCO(B)=0.66 10.
1546.0 10	1 1	5311.5	(33/2 ⁻)	3765.3	(31/2 ⁻)	(D)	Mult.: DCO(B)=0.71 12.

Continued on next page (footnotes at end of table)

$^{96}\text{Zr}(^{30}\text{Si},5n\gamma)$ **1995Ti04,1995Ti09** (continued)

$\gamma(^{121}\text{Xe})$ (continued)

† From DCO data.

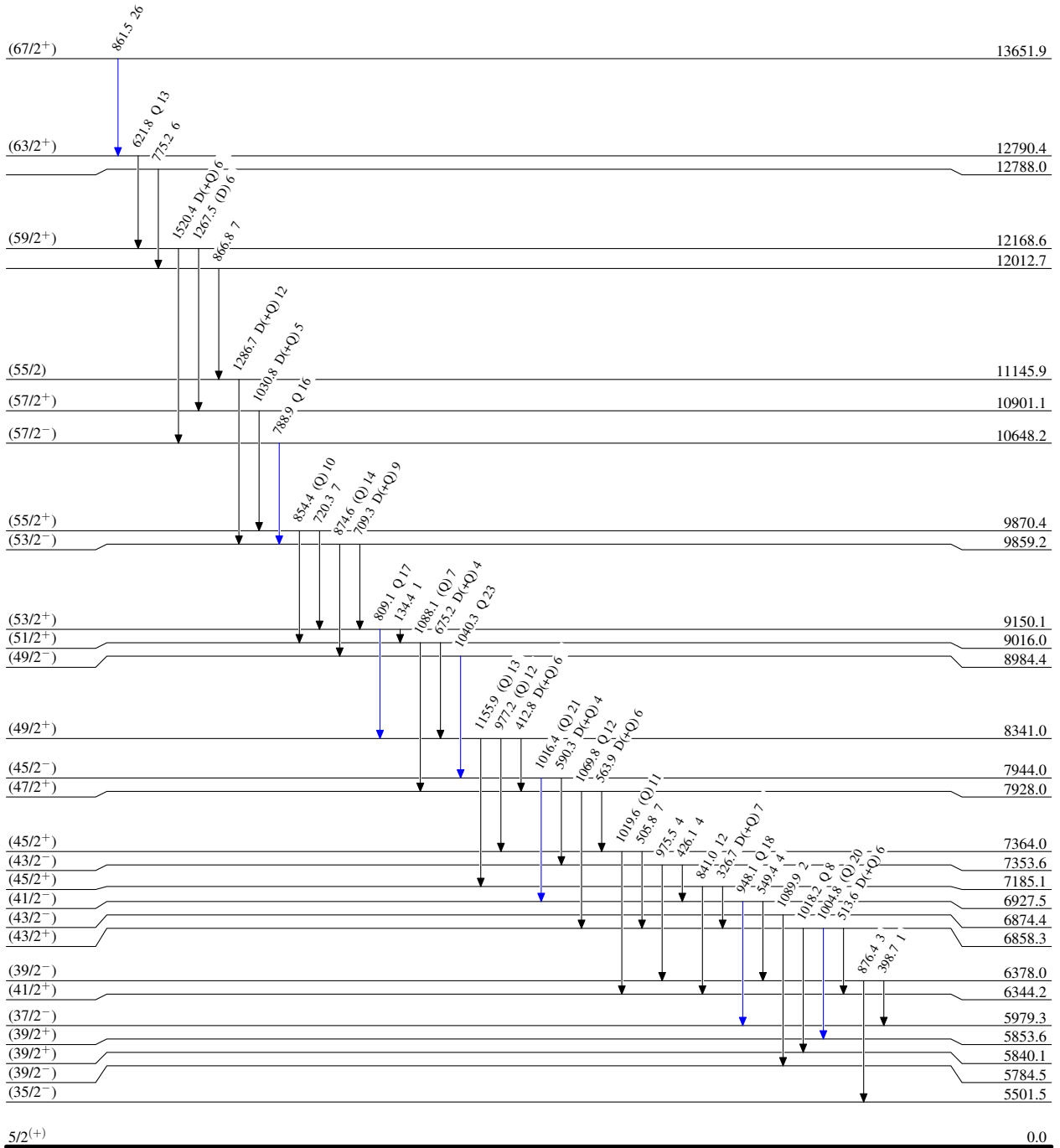
‡ Relative to $I(422.2 \gamma)=100$ at $\theta=55^\circ$, uncertainty was estimated by evaluators from authors' value of 10%.

$^{96}\text{Zr} (^{30}\text{Si}, 5n\gamma)$ 1995Ti04, 1995Ti09

Level Scheme
Intensities: Relative I_γ

Legend

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



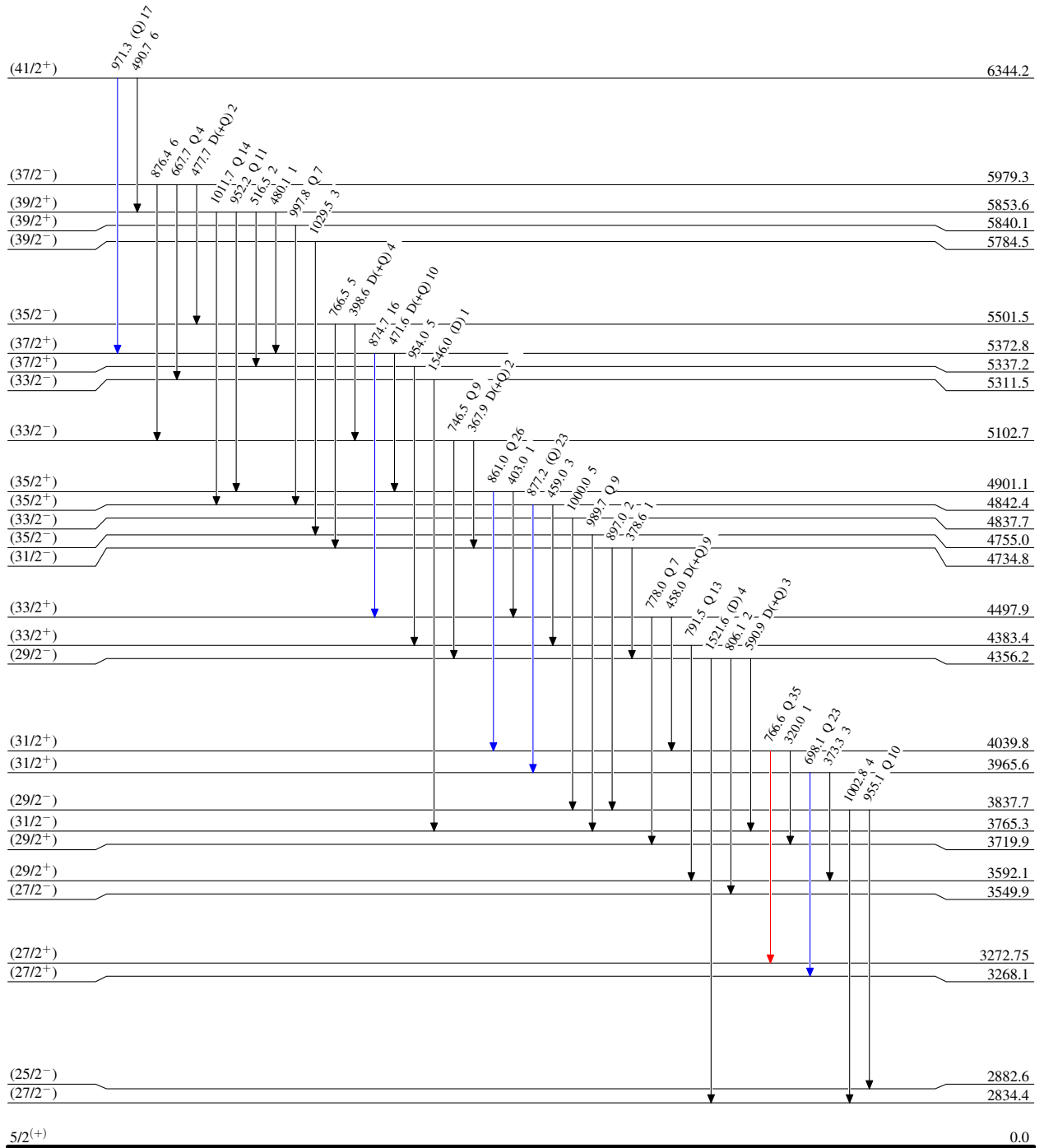
$^{96}\text{Zr} (^{30}\text{Si}, 5n\gamma)$ 1995Ti04, 1995Ti09

Level Scheme (continued)

Intensities: Relative I_γ

Legend

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



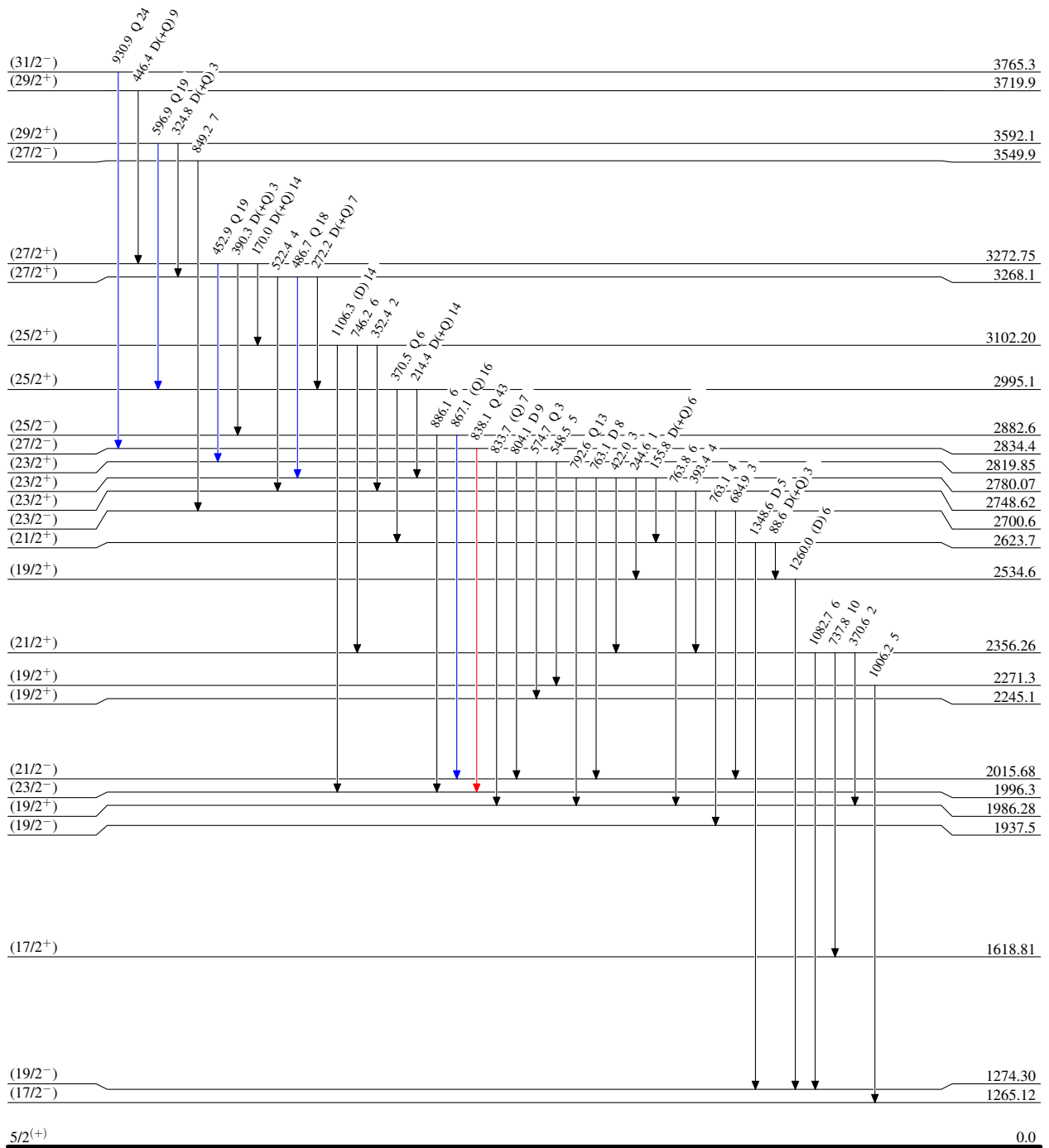
$^{96}\text{Zr}(^{30}\text{Si},5n\gamma)$ 1995Ti04,1995Ti09

Level Scheme (continued)

Intensities: Relative I_γ

Legend

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



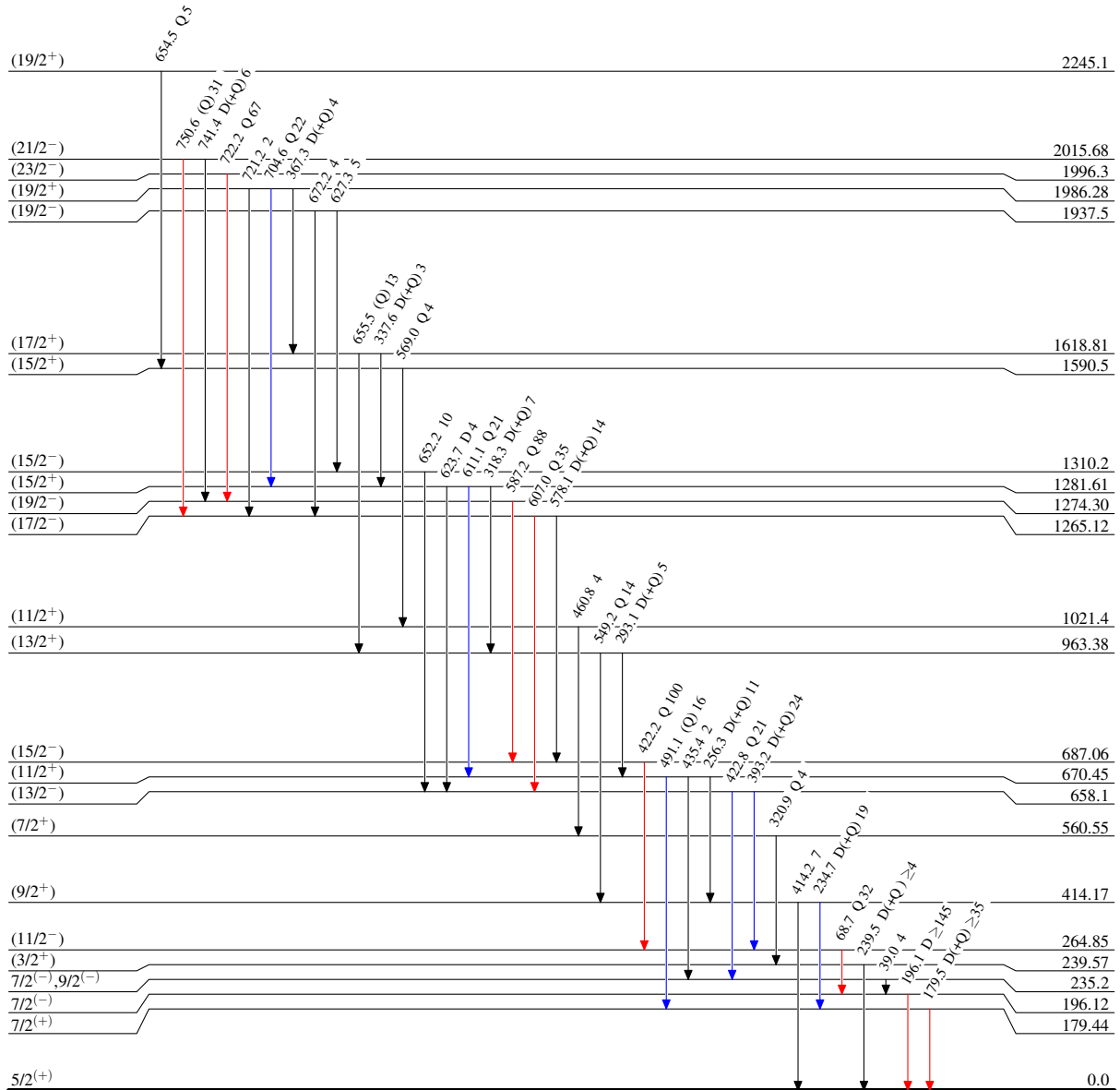
$^{96}\text{Zr}({}^{30}\text{Si},5n\gamma)$ 1995Ti04,1995Ti09

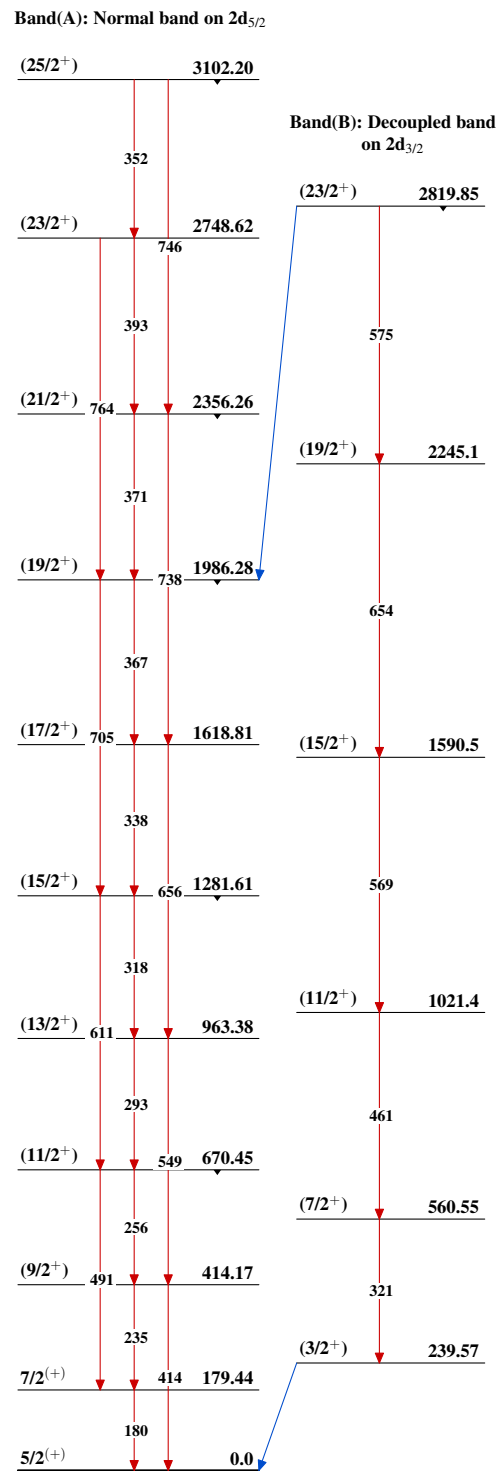
Level Scheme (continued)

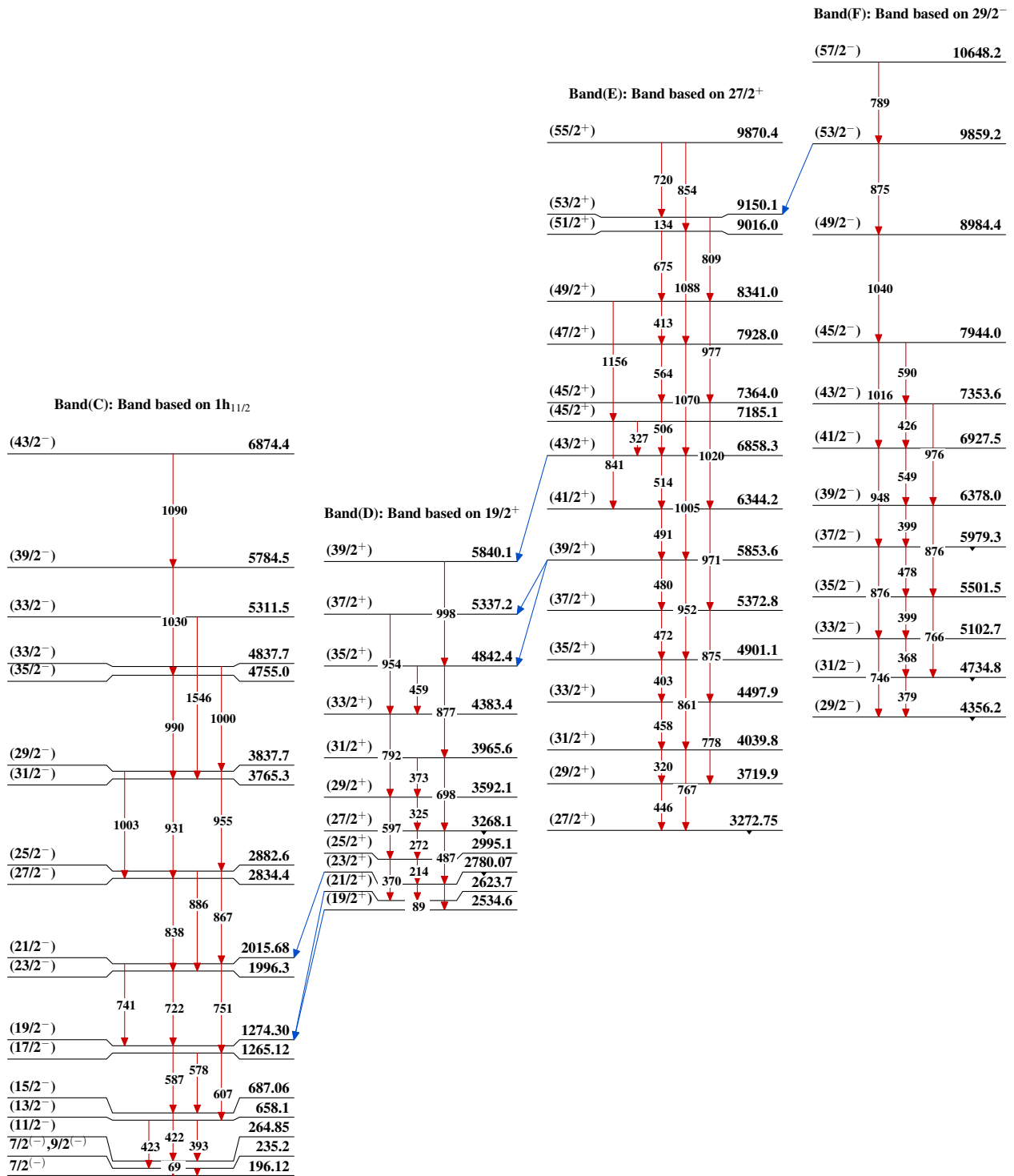
Intensities: Relative I_γ

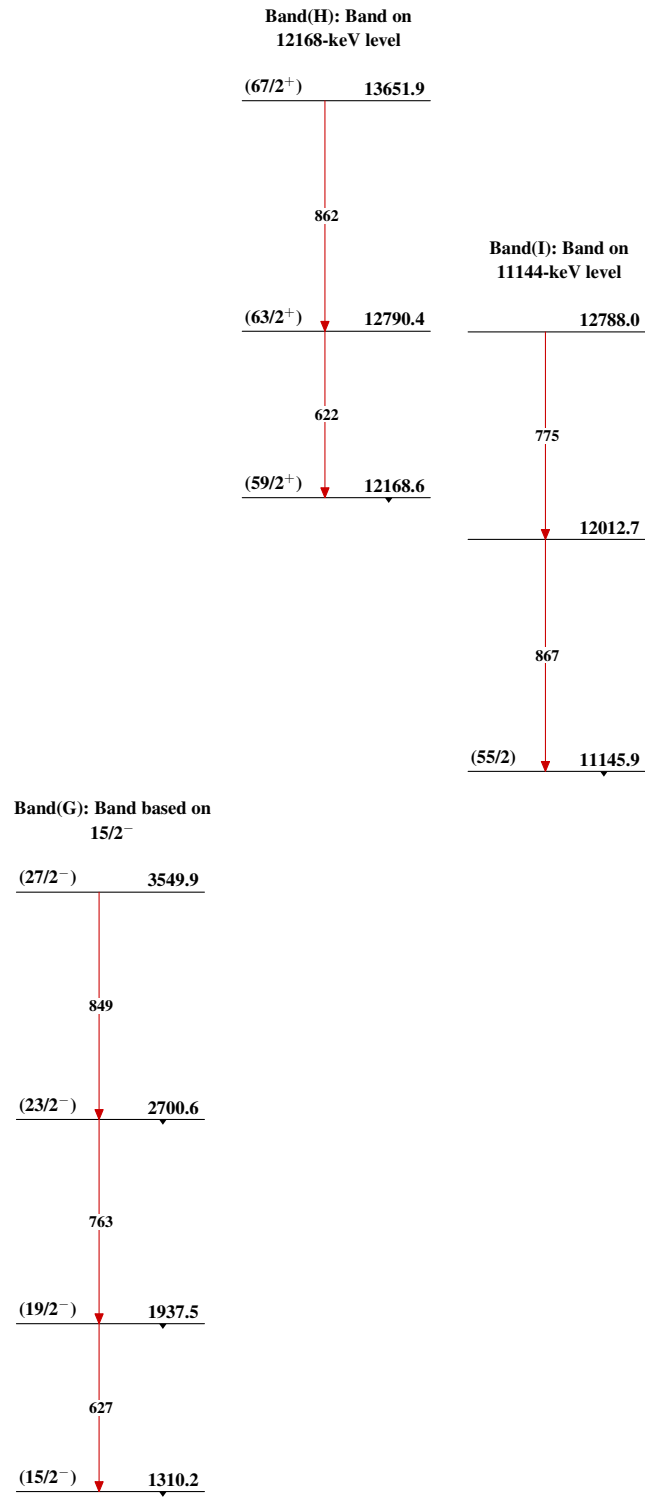
Legend

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

 $^{121}_{54}\text{Xe}_{67}$

$^{96}\text{Zr}({}^{30}\text{Si}, 5n\gamma)$ 1995Ti04, 1995Ti09 $^{121}_{54}\text{Xe}_{67}$

$^{96}\text{Zr}(^{30}\text{Si},5n\gamma)$ 1995Ti04,1995Ti09 (continued)

$^{96}\text{Zr}(\text{}^{30}\text{Si}, 5\text{n}\gamma)$ 1995Ti04, 1995Ti09 (continued) $^{121}_{54}\text{Xe}_{67}$