^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Katakura	NDS 112, 495 (2011)	1-Jan-2010

2006Si16: ^{110}Pd(^{19}F,4nγ) E=75 MeV. Measured Eγ, Iγ, $\gamma\gamma$.
1991Hu09: ^{110}Pd(^{19}F,4nγ) E=74 MeV, Compton-suppressed Ge, $\gamma\gamma$-coin, $\gamma(\theta)$, excitation function.
Others; 1988Ma49: ^{96}Zr(^{34}S,p4nγ) E=160 MeV, ^{110}Cd(^{18}O,p2nγ) E=80 MeV, enriched target 96.8% for ^{96}Zr and 93.3% for ^{110}Cd, Compton-suppressed Ge, $\gamma\gamma$-coin, $\gamma(\theta)$, excitation function; 1977YoZQ: ^{116}Sn(^{12}C,p2nγ) semi γ, pγ-coin, proposed a band up to 23/2 built on a 1h11/2 state; 1993Su31: ^{109}Ag(^{19}F,p2nγ) E=75 MeV. Measured Eγ, Iγ, $\gamma\gamma$.
XUNDL data set compiled by M.Mitchell and B. Singh (McMaster), May 9, 2006 is consulted.

^{125}Cs Levels

E(level)[†]	J$^\pi$[‡]	Comments
0.0	1/2$^{(+)}$	
77.1 *3*	3/2$^{(+)}$	
84.7 *3*	5/2$^{(+)}$	
253.0[g] *3*	(7/2$^+$)	
266.0[c] *11*	(11/2$^-$)	
540.6[@] *11*	(9/2$^+$)	E(level): From 1991Hu09. On the basis of systematics, 2006Si16 propose that the 9/2$^+$ bandhead lies at ≈600 keV, is isomeric, and decays to the 7/2$^+$ and 5/2$^+$ states rather than to the 11/2-isomer. See 2006Si16 for details.
631.7[c] *11*	(15/2$^-$)	
683.2[g] *5*	(11/2$^+$)	
820.3? *12*		Tentative level proposed by 1991Hu09 but not confirmed by 2006Si16.
849.9[#] *11*	(11/2$^+$)	
1196.5[@] *11*	(13/2$^+$)	
1203.7[c] *11*	(19/2$^-$)	
1278.8[b] *11*	(17/2$^-$)	
1293.5[g] *6*	(15/2$^+$)	
1574.7[#] *11*		
1753.8[h] *11*	(19/2$^-$)	
1899.0[b] *11*	(21/2$^-$)	
1962.9[c] *12*	(23/2$^-$)	
1986.4[@] *11*		
2055.2[g] *6*	(19/2$^+$)	
2318.1[&] *12*	(17/2$^+$)	
2396.4[a] *12*	(19/2$^+$)	
2424.5[h] *11*	(23/2$^-$)	
2425.3[#] *11*	(19/2$^+$)	
2518.2[&] *12*	(21/2$^+$)	
2570.7[d] *12*	(23/2$^-$)	
2690.9[b] *12*	(25/2$^-$)	
2698.7[a] *12*	(23/2$^+$)	
2832.8[c] *12*	(27/2$^-$)	
2895.8[@] *12*	(21/2$^+$)	
2919.5 *7*	(23/2$^+$)	
2943.8[g] *7*	(23/2$^+$)	
2945.3[&] *12*	(25/2$^+$)	
3178.1[d] *12*	(27/2$^-$)	
3240.9[e] *14*	(25/2$^+$)	

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^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09 (continued)

^{125}Cs Levels (continued)

E(level)†	Jπ‡	Comments
3243.9[h] *12*	(27/2⁻)	
3257.1[a] *12*	(27/2⁺)	
3278.4? *12*		
3385.4[#] *12*	(23/2⁻)	
3499.1[e] *13*	(27/2⁺)	
3553.4[b] *12*	(29/2⁻)	
3616.5[&] *12*	(29/2⁺)	
3723.8[c] *12*	(31/2⁻)	
3840.4[e] *13*	(29/2⁺)	
3964.4? *12*		
3975.9[d] *12*	(31/2⁻)	
4009.8[a] *12*	(31/2⁺)	
4212.2[e] *13*	(31/2⁺)	
4358.2[b] *12*	(33/2⁻)	
4450.8[&] *12*	(33/2⁺)	
4593.1[c] *13*	(35/2⁻)	
4603.9[e] *13*	(33/2⁺)	
4920.3[d] *12*	(35/2⁻)	
4925.3[a] *12*	(35/2⁺)	
5028.0[e] *13*	(35/2⁺)	
5212.7[b] *12*	(37/2⁻)	
5428.8[&] *13*	(37/2⁺)	
5495.4[e] *14*	(37/2⁺)	
5518.8[c] *13*	(39/2⁻)	
5936.6[a] *14*	(39/2⁺)	
6188.9[b] *14*	(41/2⁻)	
6468.7[&] *15*	(41/2⁺)	
6520.1[c] *13*	(43/2⁻)	
7273.0[b] *15*	(45/2⁻)	
7600.1[c] *17*	(47/2⁻)	
8759.1[c] *20*	(51/2⁻)	
10003.1[c] *22*	(55/2⁻)	
11310.1[c] *24*	(59/2⁻)	
0+x[f]	(23/2⁺)	Additional information 1. E(level): x ≈ 3 MeV (2006Si16) from systematics.
611.0+x[f] *10*	(27/2⁺)	
1354.0+x[f] *15*	(31/2⁺)	
2187.0+x[f] *18*	(35/2⁺)	
3030.0+x[f] *20*	(39/2⁺)	
3901.0+x[f] *23*	(43/2⁺)	
4850.0+x[f] *25*	(47/2⁺)	
5829+x[f] *3*	(51/2⁺)	

† From a least-squares fit by evaluators to Eγ′s.
‡ From Adopted Levels.
# Band(A): $\pi g_{9/2}$, α=+1/2. Strongly-coupled band.

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^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09 (continued)

^{125}Cs Levels (continued)

@ Band(a): $\pi g_{9/2}$, $\alpha=-1/2$. Strongly-coupled band.
& Band(B): 3-qp band, $\alpha=+1/2$. $\pi h_{11/2}\otimes\nu h_{11/2}\otimes\nu g_{7/2}$, Strongly-coupled band.
a Band(b): 3-qp band, $\alpha=-1/2$. $\pi h_{11/2}\otimes\nu h_{11/2}\otimes\nu g_{7/2}$, Strongly-coupled band.
b Band(C): Yrast band, $\pi h_{11/2}$, $\alpha=+1/2$.
c Band(c): Yrast band, $\pi h_{11/2}$, $\alpha=-1/2$.
d Band(D): $\pi h_{11/2}\otimes(\gamma$ vibrational band).
e Band(E): $\Delta J=1$ band based on $(25/2^+)$.
f Band(F): 3-qp decoupled band based on $(23/2^+)$. Configuration=$(\pi g_{9/2}/\pi g_{7/2})\otimes(\pi h^2_{11/2})/\nu h^2_{11/2})$ with preference for $\pi g_{7/2}\otimes\nu h^2_{11/2}$ configuration from TAC calculations for lower part of the band.
g Band(G): $\pi g_{7/2}$, $\alpha=-1/2$.
h Band(H): Band based on $19/2^-$, $\alpha=-1/2$.

$\gamma(^{125}Cs)$

E_γ †	I_γ c	E_i(level)	J^π_i	E_f	J^π_f	Mult.#	δ d	Comments
(13)		266.0	$(11/2^-)$	253.0	$(7/2^+)$	(M2)		E_γ: From adopted level energy difference. Mult.: From adopted gammas.
77.1 *3*		77.1	$3/2^{(+)}$	0.0	$1/2^{(+)}$			E_γ: From Adopted Levels.
78		2396.4	$(19/2^+)$	2318.1	$(17/2^+)$			
84.6 *3*		84.7	$5/2^{(+)}$	0.0	$1/2^{(+)}$			E_γ: From Adopted Levels.
121.7 *3*	19 *2*	2518.2	$(21/2^+)$	2396.4	$(19/2^+)$	D+Q	+0.30 *6*	A_2=−0.21 *3*, A_4=−0.04 *4* (1991Hu09).
168.3 *3*	87 *9*	253.0	$(7/2^+)$	84.7	$5/2^{(+)}$	E2(+M1)	>1.11	Mult.: From adopted gammas. A_2=+0.089 *12*, A_4=−0.04 *4* (1991Hu09).
176.0 *3*	64 *6*	253.0	$(7/2^+)$	77.1	$3/2^{(+)}$	E2		Mult.: From adopted gammas. A_2, A_4 values suggest D+Q and δ=+24 *2* which is inconsistent with $(7/2^+)$ to $3/2^{(+)}$ transition. Long $T_{1/2}$ of 266 level could result in large attenuation in $\gamma(\theta)$ through 13-keV transition. A_2=+0.115 *13*, A_4=+0.019 *16* (1991Hu09).
180.5 *3*	22 *2*	2698.7	$(23/2^+)$	2518.2	$(21/2^+)$	D+Q	−0.7 *3*	A_2=−0.353 *21*, A_4=−0.04 *3* (1991Hu09).
235‡		4593.1	$(35/2^-)$	4358.2	$(33/2^-)$	@	@	
246.5 *3*	17 *1*	2945.3	$(25/2^+)$	2698.7	$(23/2^+)$	D+Q	−0.34 *19*	A_2=−0.41 *3*, A_4=−0.06 *4* (1991Hu09).
258‡		3499.1	$(27/2^+)$	3240.9	$(25/2^+)$	@	@	
274.6 *3*	5 *1*	540.6	$(9/2^+)$	266.0	$(11/2^-)$			
302‡		2698.7	$(23/2^+)$	2396.4	$(19/2^+)$	@	@	
307‡		5518.8	$(39/2^-)$	5212.7	$(37/2^-)$	@	@	
309.3 *3*	5 *1*	849.9	$(11/2^+)$	540.6	$(9/2^+)$			
311.8 *3*	20 *1*	3257.1	$(27/2^+)$	2945.3	$(25/2^+)$	D+Q	−0.2 *4*	A_2=−0.395 *24*, A_4=+0.02 *3* (1991Hu09).
331‡		6520.1	$(43/2^-)$	6188.9	$(41/2^-)$	@	@	
342‡		3840.4	$(29/2^+)$	3499.1	$(27/2^+)$	@	@	
346.5 *3*	4 *1*	1196.5	$(13/2^+)$	849.9	$(11/2^+)$	D+Q	+0.14 *1*	A_2=−0.02 *7*, A_4=0 (1991Hu09).
359.5 *3*	8 *1*	3616.5	$(29/2^+)$	3257.1	$(27/2^+)$	D+Q	−0.19 *3*	A_2=−0.55 *4*, A_4=0 (1991Hu09).
365.7 *3*	100	631.7	$(15/2^-)$	266.0	$(11/2^-)$	Q		A_2=+0.210 *13*, A_4=+0.004 *15* (1991Hu09); A_2=+0.27 *3* (1988Ma49).
372‡		4212.2	$(31/2^+)$	3840.4	$(29/2^+)$	@	@	
378.1 *3*	6 *1*	1574.7		1196.5	$(13/2^+)$			
392‡		4603.9	$(33/2^+)$	4212.2	$(31/2^+)$	@	@	
393.4 *3*	4 *1*	4009.8	$(31/2^+)$	3616.5	$(29/2^+)$	D+Q	+0.39 *14*	A_2=−0.76 *11*, A_4=+0.012 *15* (1991Hu09).
411.7 *3*	2 *1*	1986.4		1574.7				
424‡		5028.0	$(35/2^+)$	4603.9	$(33/2^+)$	@	@	

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^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09 (continued)

γ(^{125}Cs) (continued)

E_γ[†]	I_γ[c]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[d]	Comments
430.2 *3*	7 *1*	683.2	(11/2$^+$)	253.0	(7/2$^+$)	Q		A_2=+0.52 *6*, A_4=+0.07 *7* (1991Hu09).
438.9 *3*	2 *1*	2425.3	(19/2$^+$)	1986.4				
441.1 *3*	2 *1*	4450.8	(33/2$^+$)	4009.8	(31/2$^+$)			
458.5[e] *5*	<1	1278.8	(17/2$^-$)	820.3?				
468[‡]		5495.4	(37/2$^+$)	5028.0	(35/2$^+$)	@	@	
470.2 *3*	≈1	2895.8	(21/2$^+$)	2425.3	(19/2$^+$)			
474.3[‡] *3*	<2	4925.3	(35/2$^+$)	4450.8	(33/2$^+$)	@	@	
474.7[‡] *3*	9 *2*	1753.8	(19/2$^-$)	1278.8	(17/2$^-$)	D+Q[@]	−0.23[@] *1*	
489.2 *3*	<2	3385.4	(23/2$^-$)	2895.8	(21/2$^+$)			
504[‡]		5428.8	(37/2$^+$)	4925.3	(35/2$^+$)	@	@	
508[‡]		5936.6	(39/2$^+$)	5428.8	(37/2$^+$)	@	@	
525.6 *3*	2 *1*	2424.5	(23/2$^-$)	1899.0	(21/2$^-$)			
532[‡]		6468.7	(41/2$^+$)	5936.6	(39/2$^+$)	@	@	
542[‡]		3240.9	(25/2$^+$)	2698.7	(23/2$^+$)	@	@	
554[‡]		3499.1	(27/2$^+$)	2945.3	(25/2$^+$)	@	@	
554.3[e] *5*	<1	820.3?		266.0	(11/2$^-$)			See comment on 820.5 level.
558.4 *3*	<2	3257.1	(27/2$^+$)	2698.7	(23/2$^+$)			
569[‡]		5495.4	(37/2$^+$)	4925.3	(35/2$^+$)	@	@	
572.2 *3*	64 *3*	1203.7	(19/2$^-$)	631.7	(15/2$^-$)	Q		A_2=+0.299 *15*, A_4=+0.033 *19* (1991Hu09); A_2=+0.22 *3* (1988Ma49).
578[‡]		5028.0	(35/2$^+$)	4450.8	(33/2$^+$)	@	@	
583[‡]		3840.4	(29/2$^+$)	3257.1	(27/2$^+$)	@	@	
583.9 *3*	<2	849.9	(11/2$^+$)	266.0	(11/2$^-$)			
594[‡]		4603.9	(33/2$^+$)	4009.8	(31/2$^+$)	@	@	
596[‡]		4212.2	(31/2$^+$)	3616.5	(29/2$^+$)	@	@	
607.0 *3*	<2	3178.1	(27/2$^-$)	2570.7	(23/2$^-$)			
610.3 *3*	7	1293.5	(15/2$^+$)	683.2	(11/2$^+$)	Q		A_2=+0.28 *7*, A_4=−0.06 *9* (1991Hu09).
611[‡]		611.0+x	(27/2$^+$)	0+x	(23/2$^+$)	@	@	
620 *1*	<2	5212.7	(37/2$^-$)	4593.1	(35/2$^-$)	&	&	
620.5 *3*	5	1899.0	(21/2$^-$)	1278.8	(17/2$^-$)	Q&	&	
634.3 *3*	<2	4358.2	(33/2$^-$)	3723.8	(31/2$^-$)			
647.1 *3*	26	1278.8	(17/2$^-$)	631.7	(15/2$^-$)	D+Q	−0.30 *7*	A_2=−0.700 *23*, A_4=+0.06 *3* (1991Hu09).
655.8 *3*	2 *1*	1196.5	(13/2$^+$)	540.6	(9/2$^+$)	Q		A_2=+0.67 *16*, A_4=+0.12 *20* (1991Hu09).
670[‡]		6188.9	(41/2$^-$)	5518.8	(39/2$^-$)	@	@	
670.2 *3*	<2	2424.5	(23/2$^-$)	1753.8	(19/2$^-$)	(Q)		
671.1 *3*	<2	3616.5	(29/2$^+$)	2945.3	(25/2$^+$)			
686.0[e] *3*	<2	3964.4?		3278.4?				E_γ: Not reported in 2006Si116. Questionable.
695.3 *3*	17	1899.0	(21/2$^-$)	1203.7	(19/2$^-$)	D+Q	−0.25 *1*	A_2=−0.64 *3*, A_4=0 (1991Hu09).
720.4 *3*	2 *1*	3553.4	(29/2$^-$)	2832.8	(27/2$^-$)	D+Q	−0.35 *2*	A_2=−0.75 *19*, A_4=0 (1991Hu09).
725.0 *3*	≈1	1574.7		849.9	(11/2$^+$)			
728.1 *3*	5 *1*	2690.9	(25/2$^-$)	1962.9	(23/2$^-$)			
743[‡]		1354.0+x	(31/2$^+$)	611.0+x	(27/2$^+$)	@	@	
752.8 *3*	<2	4009.8	(31/2$^+$)	3257.1	(27/2$^+$)			
753[‡]		7273.0	(45/2$^-$)	6520.1	(43/2$^-$)	@	@	
759.5 *3*	35 *3*	1962.9	(23/2$^-$)	1203.7	(19/2$^-$)	Q[a]	*a*	A_2=+0.34 *7* (1988Ma49).
761.7 *3*	5 *1*	2055.2	(19/2$^+$)	1293.5	(15/2$^+$)	(Q)[a]	*a*	
764.6 *3*	3 *1*	2518.2	(21/2$^+$)	1753.8	(19/2$^-$)	D+Q	−0.25 *15*	A_2=−0.62 *13*, A_4=+0.13 *16* (1991Hu09).
789.9 *3*	<2	1986.4		1196.5	(13/2$^+$)			
791.9 *3*	5 *1*	2690.9	(25/2$^-$)	1899.0	(21/2$^-$)	Q		A_2=+0.31 *10*, A_4=+0.08 *12* (1991Hu09).
797.5 *3*	<2	3975.9	(31/2$^-$)	3178.1	(27/2$^-$)			

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^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09 (continued)

$\gamma(^{125}Cs)$ (continued)

E_γ[†]	I_γ[c]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[d]	Comments
801[‡e]		3499.1	(27/2$^+$)	2698.7	(23/2$^+$)	@	@	
804.9 *3*	<2	4358.2	(33/2$^-$)	3553.4	(29/2$^-$)			
819.4 *3*	<2	3243.9	(27/2$^-$)	2424.5	(23/2$^-$)			
833[‡]		2187.0+x	(35/2$^+$)	1354.0+x	(31/2$^+$)	@	@	
834.2 *3*	<2	4450.8	(33/2$^+$)	3616.5	(29/2$^+$)			
843[‡]		3030.0+x	(39/2$^+$)	2187.0+x	(35/2$^+$)	@	@	
850.7 *3*	<2	2425.3	(19/2$^+$)	1574.7				
854.5 *3*	<1	5212.7	(37/2$^-$)	4358.2	(33/2$^-$)			
862.7 *3*	3 *1*	3553.4	(29/2$^-$)	2690.9	(25/2$^-$)			
864.3 *3*	2 *1*	2919.5	(23/2$^+$)	2055.2	(19/2$^+$)			
869 *1*		4593.1	(35/2$^-$)	3723.8	(31/2$^-$)	Q[b]	*b*	A_2=0.15 *10* (1988Ma49).
869.9 *3*	28 *3*	2832.8	(27/2$^-$)	1962.9	(23/2$^-$)	Q[b]	*b*	A_2=+0.54 *15* (1988Ma49).
871[‡]		3901.0+x	(43/2$^+$)	3030.0+x	(39/2$^+$)	@	@	
888.6 *3*	<2	2943.8	(23/2$^+$)	2055.2	(19/2$^+$)			
891.2 *3*	12 *1*	3723.8	(31/2$^-$)	2832.8	(27/2$^-$)	Q		A_2=+0.32 *4*, A_4=−0.02 *5* (1991Hu09); A_2=+0.37 *10* (1988Ma49).
895[‡]		3840.4	(29/2$^+$)	2945.3	(25/2$^+$)	@	@	
909.2 *3*	<2	2895.8	(21/2$^+$)	1986.4				
915.5 *3*	<2	4925.3	(35/2$^+$)	4009.8	(31/2$^+$)			
925.7 *3*	2 *1*	5518.8	(39/2$^-$)	4593.1	(35/2$^-$)			
944.2 *3*	<2	4920.3	(35/2$^-$)	3975.9	(31/2$^-$)			
949[‡]		4850.0+x	(47/2$^+$)	3901.0+x	(43/2$^+$)	@	@	
955[‡]		4212.2	(31/2$^+$)	3257.1	(27/2$^+$)	@	@	
960.5 *3*	<2	3385.4	(23/2$^-$)	2425.3	(19/2$^+$)			
976[‡]		6188.9	(41/2$^-$)	5212.7	(37/2$^-$)	@	@	
978.0 *3*	<2	5428.8	(37/2$^+$)	4450.8	(33/2$^+$)			
979[‡]		5829+x	(51/2$^+$)	4850.0+x	(47/2$^+$)	@	@	
987[‡]		4603.9	(33/2$^+$)	3616.5	(29/2$^+$)	@	@	
1001.3 *3*	<2	6520.1	(43/2$^-$)	5518.8	(39/2$^-$)			
1011[‡]		5936.6	(39/2$^+$)	4925.3	(35/2$^+$)	@	@	
1018[‡e]		5028.0	(35/2$^+$)	4009.8	(31/2$^+$)	@	@	
1040[‡]		6468.7	(41/2$^+$)	5428.8	(37/2$^+$)	@	@	
1045[‡e]		5495.4	(37/2$^+$)	4450.8	(33/2$^+$)	@	@	
1080[‡]		7600.1	(47/2$^-$)	6520.1	(43/2$^-$)	@	@	Placed by 1988Ma49 as deexciting the 43/2-member of yrast band. 2006Si16 place it from the 47/2-member of this band, with a 1002γ, not reported by 1988Ma49, being the 43/2$^-$ to 39/2-transition.
1084[‡]		7273.0	(45/2$^-$)	6188.9	(41/2$^-$)	@	@	
1117.4 *3*	9 *1*	2396.4	(19/2$^+$)	1278.8	(17/2$^-$)	D+Q	−0.03 *1*	A_2=−0.29 *4*, A_4=0 (1991Hu09).
1122.0 *3*	2 *1*	1753.8	(19/2$^-$)	631.7	(15/2$^-$)	Q		A_2=+0.52 *20*, A_4=0 (1991Hu09).
1143.0 *3*	≈1	3975.9	(31/2$^-$)	2832.8	(27/2$^-$)			
1159[‡]		8759.1	(51/2$^-$)	7600.1	(47/2$^-$)	@	@	
1196.8 *3*	<2	4920.3	(35/2$^-$)	3723.8	(31/2$^-$)			
1215.4 *3*	≈1	3178.1	(27/2$^-$)	1962.9	(23/2$^-$)			
1221.0 *3*	<1	2424.5	(23/2$^-$)	1203.7	(19/2$^-$)			
1244[‡]		10003.1	(55/2$^-$)	8759.1	(51/2$^-$)	@	@	
1307[‡]		11310.1	(59/2$^-$)	10003.1	(55/2$^-$)	@	@	
1315.5[e] *3*	<1	3278.4?		1962.9	(23/2$^-$)			E_γ: Not reported in 2006Si116. Questionable.

Continued on next page (footnotes at end of table)

^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09 (continued)

$\gamma(^{125}Cs)$ (continued)

E_γ [†]	I_γ [c]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [#]	δ [d]	Comments
1366.6 *3*	2 *1*	2570.7	(23/2$^-$)	1203.7	(19/2$^-$)	Q		A_2=+0.22 *18*, A_4=0 (1991Hu09).
1686.4 *3*	4 *2*	2318.1	(17/2$^+$)	631.7	(15/2$^-$)	D+Q	+0.07 *3*	A_2=−0.13 *10*, A_4=+0.03 *13* (1991Hu09).

† From 1991Hu09.
‡ From 2006Si16.
# From $\gamma(\theta)$, unless otherwise noted.
@ A_2=−0.61 *4*, A_4=−0.01 *6* for 474.3+474.7 doublet (1991Hu09).
& A_2=+0.04 *8*, A_4=0 for 620+620.5 doublet (1991Hu09).
a A_2=+0.346 *21*, A_4=+0.013 *25* for 759.5+761.7 doublet (1991Hu09).
b A_2=+0.38 *3*, A_4=−0.01 *3* for 869+869.9 doublet (1991Hu09).
c Relative to I(365.7γ)=100 from ^{110}Pd(^{19}F,4nγ) E=74 MeV from (1991Hu09), unless otherwise noted.
d From 1991Hu09.
e Placement of transition in the level scheme is uncertain.

^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09

Level Scheme

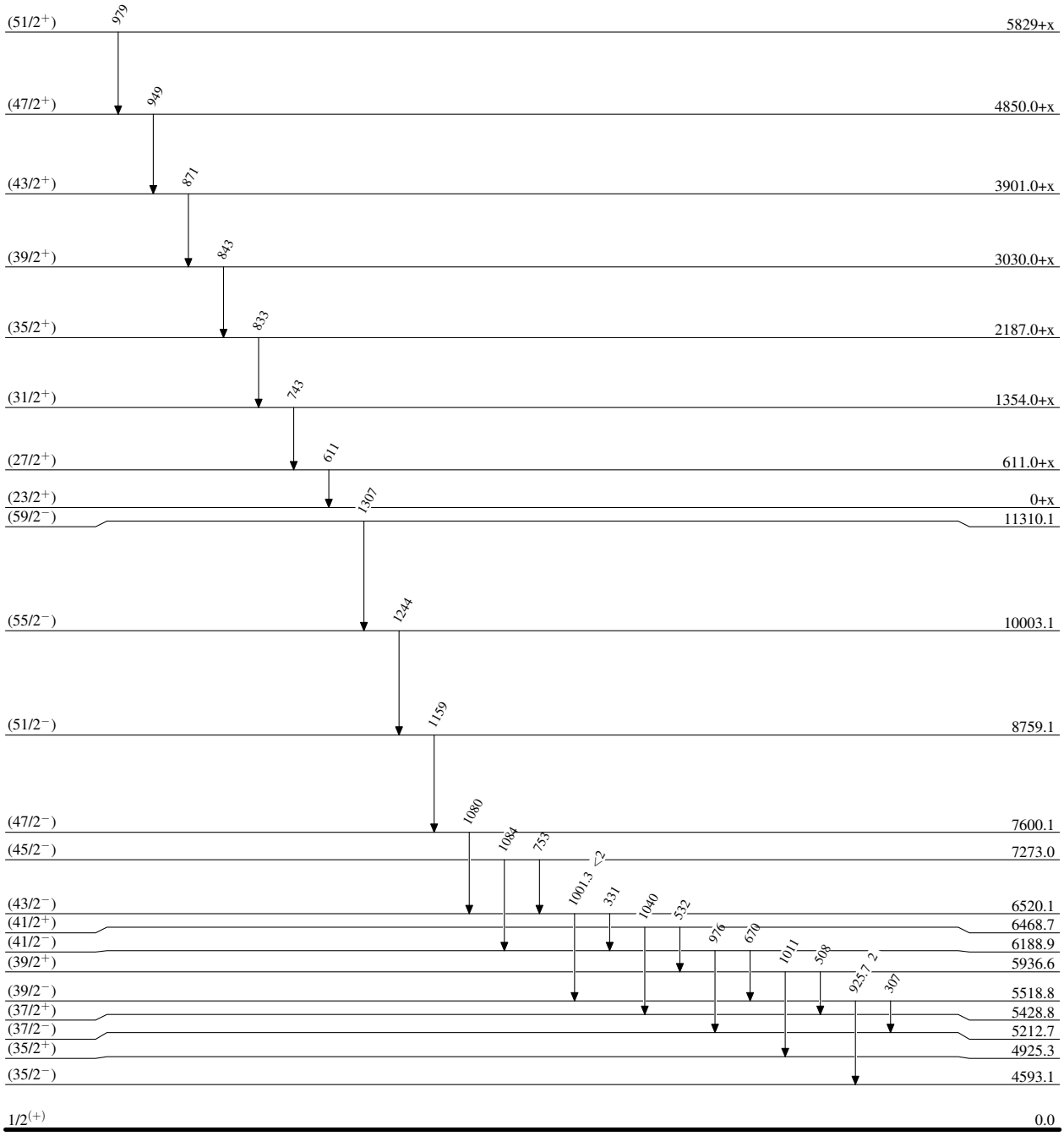
Intensities: Relative I_γ

Legend

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

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

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



$^{125}_{55}Cs_{70}$

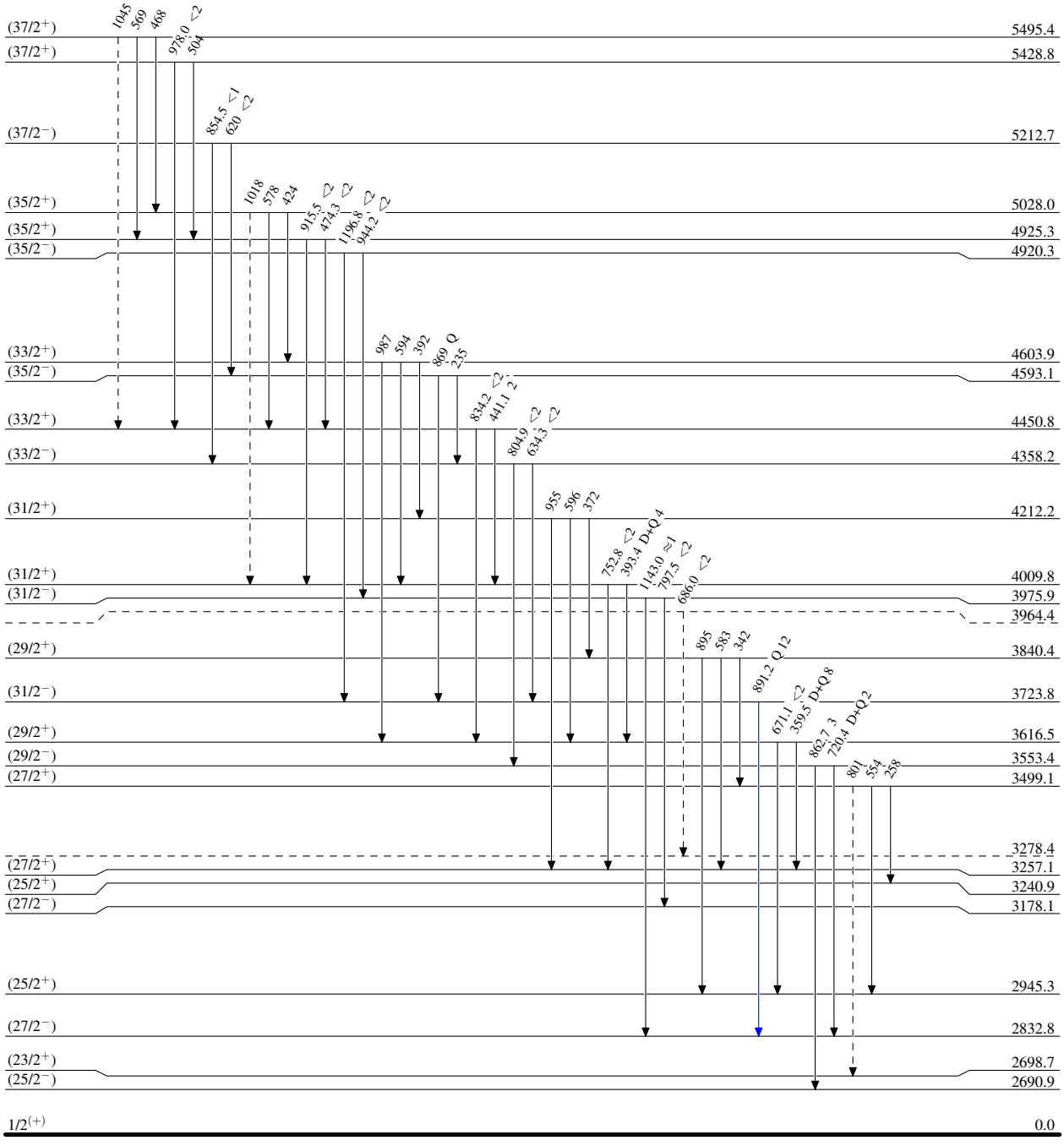
^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09

Level Scheme (continued)

Intensities: Relative I_γ

Legend

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



$^{125}_{55}Cs_{70}$

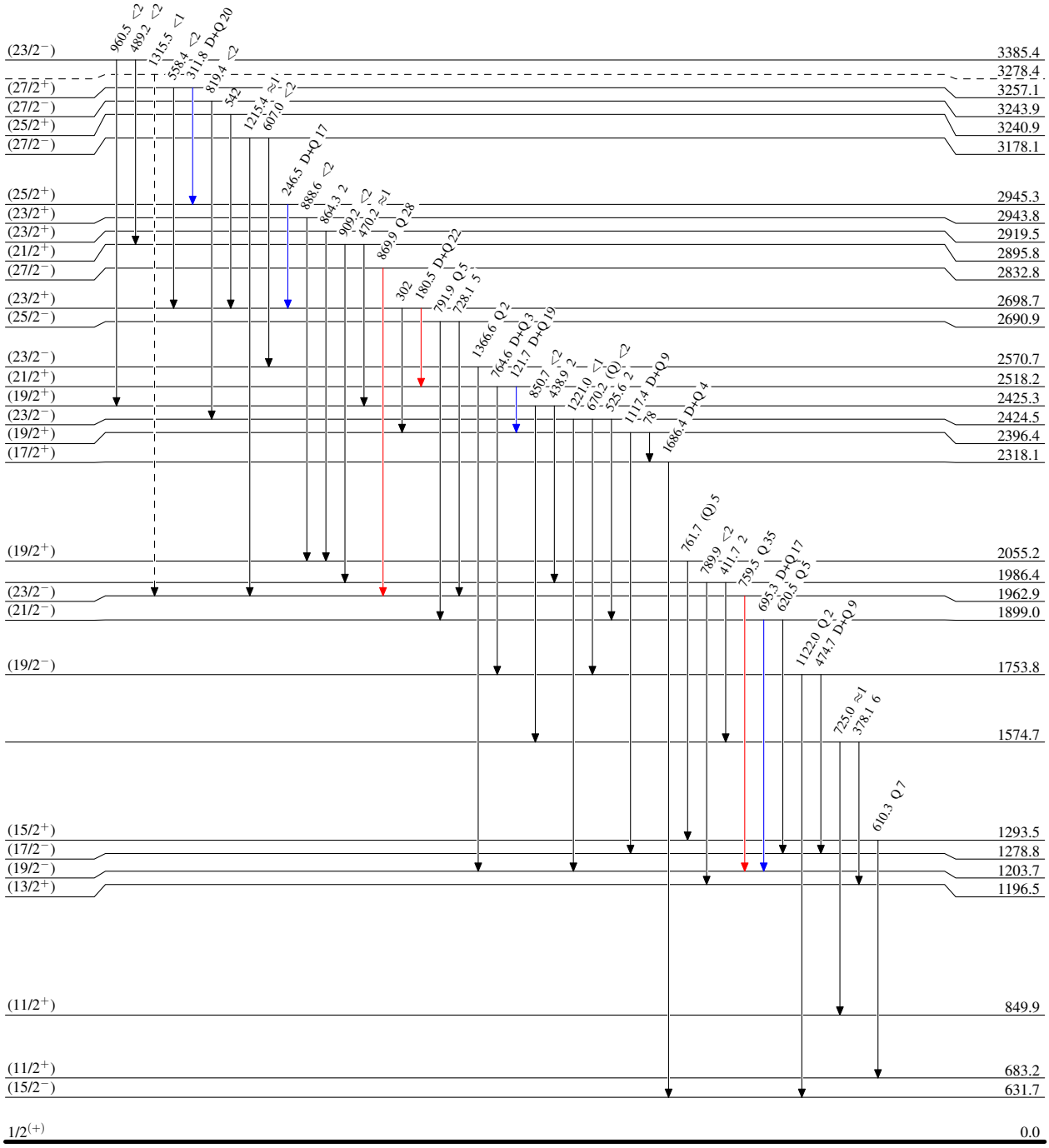
^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09

Level Scheme (continued)

Intensities: Relative I_γ

Legend

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

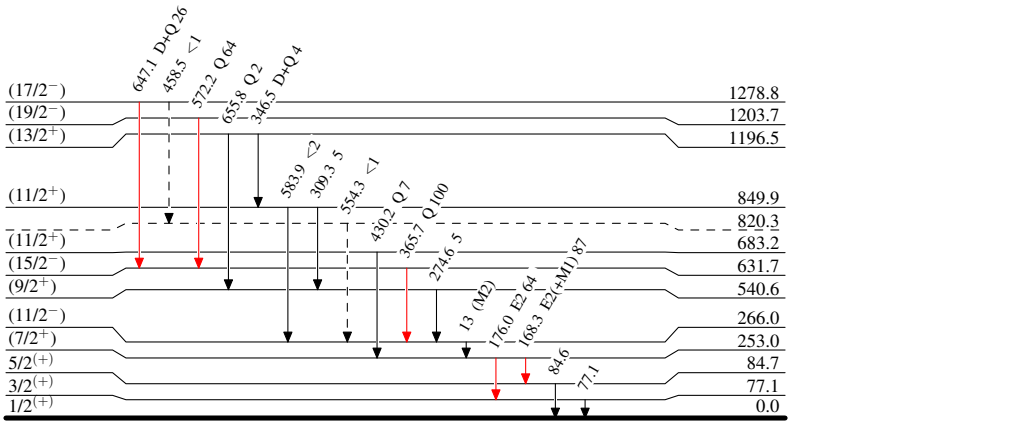


$^{125}_{55}Cs_{70}$

^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09

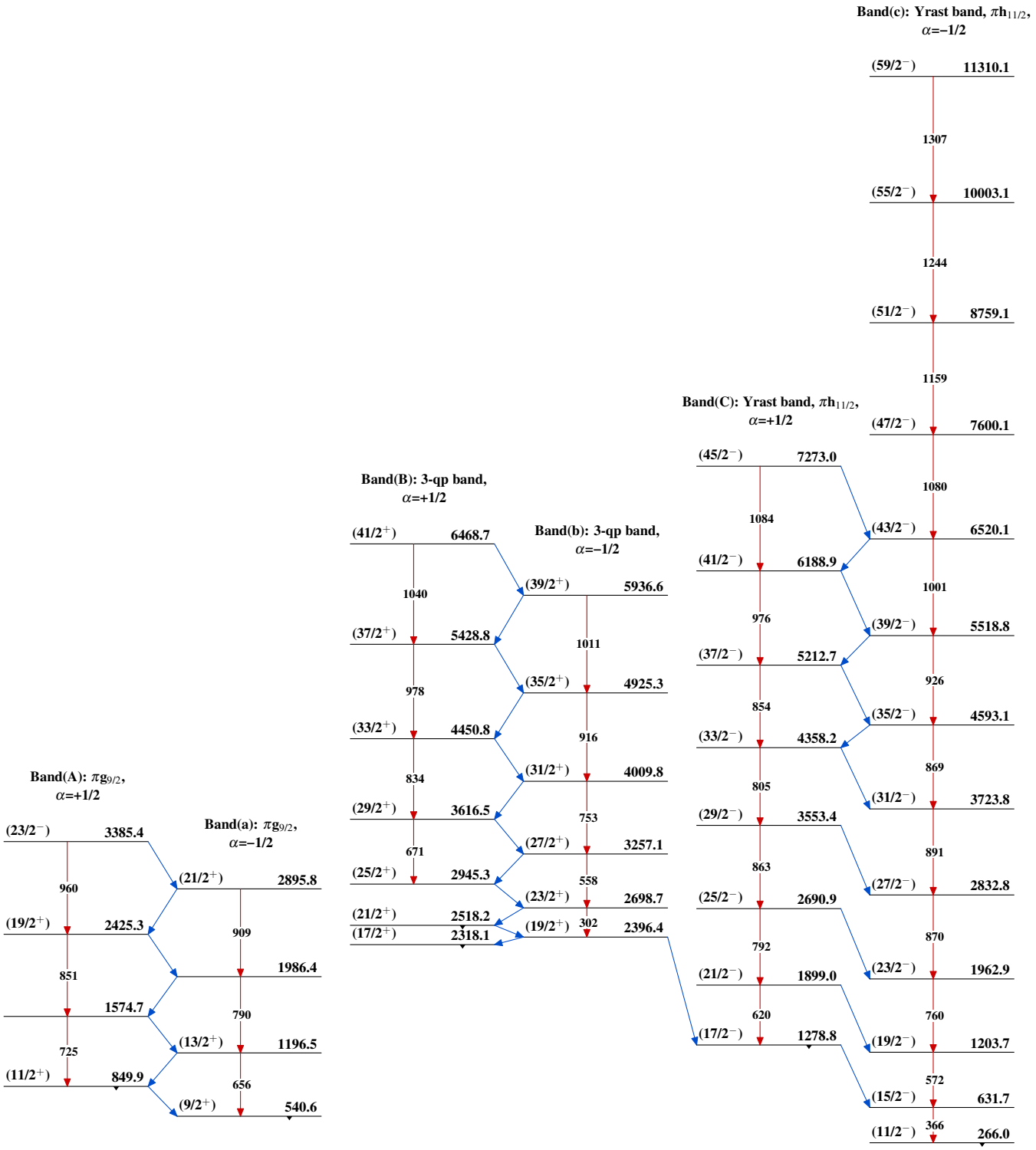
Level Scheme (continued)

Intensities: Relative I_γ



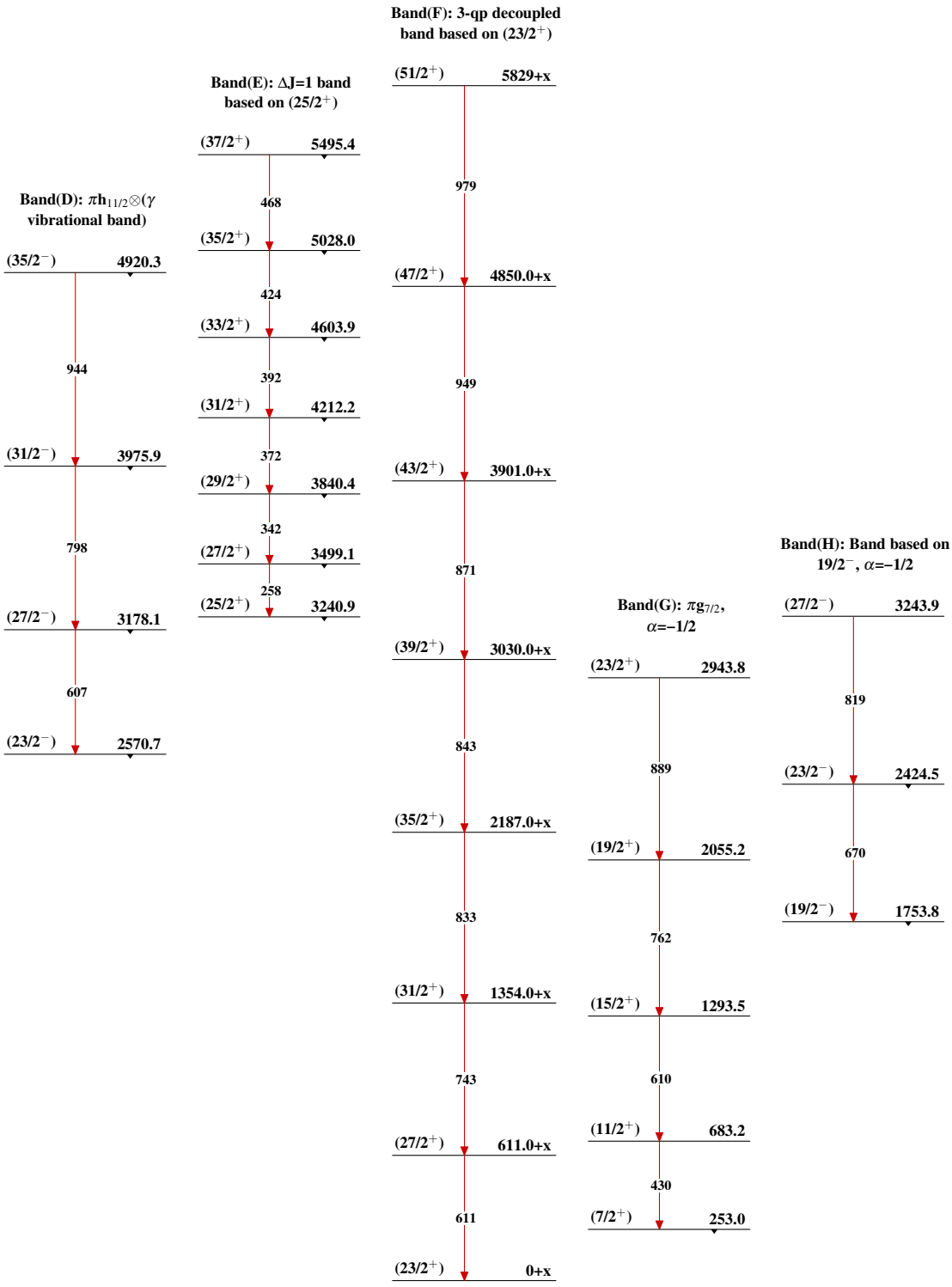
$^{125}_{55}Cs_{70}$

^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09



$^{125}_{55}Cs_{70}$

^{110}Pd(^{19}F,4nγ) 2006Si16,1991Hu09 (continued)



$^{125}_{55}Cs_{70}$