

¹⁰⁰Mo(²⁹Si,4nγ),¹¹⁶Sn(¹²C,3nγ) 1978Gi08,1988Ma49,1992WaZN

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

1992WaZN: ¹⁰⁰Mo(²⁹Si,4nγ) E=130 MeV, 8π spectrometer, γγ coin.

1978Gi08: ¹¹⁶Sn(¹²C,3nγ) E=45-55 MeV ¹¹⁶Sn metallic enriched target 84.4% on Pb foil, semi γ, γγ coin, γγ delayed coin; excitation function: 45, 49, 51, 55 MeV; γ(θ) θ=0°,15°,30°,45°,60°,75°,90°.

1988Ma49: ¹¹⁰Cd+¹⁸O E=80 MeV, ⁹⁸Mo+³⁴S E=160 MeV enriched target 93.3% on Pb foil, Compton-suppressed Ge, γγ-coin, γ(θ) θ=30°,90°,150°.

¹²⁵Ba Levels

E(level) [†]	J ^π #	Comments
0.0+x [@]	(5/2 ⁺)	Additional information 1.
67.6+x ^c 5	(7/2 ⁻)	J ^π : From Adopted Levels.
166.4+x ^b 5	(9/2 ⁻)	J ^π : From Adopted Levels.
168.62+x ^{&} 9	(7/2 ⁺)	
300.4+x ^c 5	(11/2 ⁻)	
384.92+x [@] 11	(9/2 ⁺)	
572.9+x ^b 5	(13/2 ⁻)	
639.43+x ^{&} 12	(11/2 ⁺)	
751.0+x ^c 5	(15/2 ⁻)	
931.30+x [@] 17	(13/2 ⁺)	
1163.1+x ^b 5	(17/2 ⁻)	
1242.8+x ^e 5	(15/2 ⁻)	
1253.02+x ^{&} 21	(15/2 ⁺)	
1354.7+x ^c 5	(19/2 ⁻)	
1603.47+x [@] 25	(17/2 ⁺)	
1803.2+x ^e 5	(19/2 ⁻)	
1901.4+x ^b 5	(21/2 ⁻)	
1970.4+x ^{&} 5	(19/2 ⁺)	
2085.7+x ^c 5	(23/2 ⁻)	
2350.3+x [@] 7	(21/2 ⁺)	
2402.3+x ^e 6	(23/2 ⁻)	
2474.1+x ^{‡a} 8	(21/2 ⁺)	
2678.8+x ^{‡a} 6	(23/2 ⁺)	
2747.6+x ^b 5	(25/2 ⁻)	
2911.5+x ^c 6	(27/2 ⁻)	
2942.6+x ^{‡a} 7	(25/2 ⁺)	
3222.7+x ^{‡a} 9	(27/2 ⁺)	
3532.7+x ^d 7	(29/2 ⁻)	
3554.7+x ^{‡a} 10	(29/2 ⁺)	
3769.7+x ^c 8	(31/2 ⁻)	
3873.7+x ^{‡a} 11	(31/2 ⁺)	
3912.9+x ^d 9	(31/2 ⁻)	
4168.8+x ^d 8	(33/2 ⁻)	
4291.7+x ^{‡a} 12	(33/2 ⁺)	
4565.5+x ^d 9	(35/2 ⁻)	
4668.7+x ^{‡a} 13	(35/2 ⁺)	1992WaZN report 4468 keV for this level, but the energy is inconsistent with γ rays connecting to this level.

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¹⁰⁰Mo(²⁹Si,4nγ), ¹¹⁶Sn(¹²C,3nγ) **1978Gi08,1988Ma49,1992WaZN (continued)**

¹²⁵Ba Levels (continued)

E(level) [†]	J ^π #	Comments
4747.7+x ^c 13	(35/2 ⁺)	
4964.8+x ^d 10	(37/2 ⁻)	
5154.7+x ^{‡a} 16	(37/2 ⁺)	
5458.3+x ^d 11	(39/2 ⁻)	E(level): From 1992WaZN; 1988Ma49 assume 5216-keV level as (39/2 ⁻).
5607.7+x ^{‡a} 17	(39/2 ⁺)	
5928.5+x ^d 12	(41/2 ⁻)	
6467.4+x ^d 13	(43/2 ⁻)	E(level): From 1992WaZN; 1988Ma49 assume 5962-keV level as (43/2 ⁻).
6679.7+x ^{‡a} 19	(43/2 ⁺)	
7021.4+x ^d 14	(45/2 ⁻)	
7574.4+x ^d 17	(47/2 ⁻)	
7800.7+x ^{‡a} 22	(47/2 ⁺)	
8201.4+x ^d 17	(49/2 ⁻)	
8760.4+x ^d 19	(51/2 ⁻)	
9946.4+x ^d 22	(55/2 ⁻)	
11178.4+x ^d 24	(59/2 ⁻)	

[†] From a least-squares fit to Eγ's.

[‡] Some of the band members are belonged to another band according to ⁶⁴Ni(⁶⁴Ni,3nγ). Assignment is questionable.

From γ(θ), unless otherwise noted.

@ Band(A): d_{5/2} qp band, 5/2⁺ band head, α=+1/2.

& Band(B): d_{5/2} qp band, 7/2⁺ band head, α=-1/2.

^a Band(C): 3-Q(g.s.) band built on d_{5/2} band.

^b Band(D): h_{11/2} qp band-1, 9/2⁻ band head, α=+1/2.

^c Band(E): h_{11/2} qp band-1, 7/2⁻ band head, α=-1/2.

^d Band(F): 3-Q(g.s.) band built on H_{11/2} band.

^e Band(G): h_{11/2} qp band-2.

γ(¹²⁵Ba)

E _γ #	I _γ [‡]	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [†]	Comments
67.6 5		67.6+x	(7/2 ⁻)	0.0+x	(5/2 ⁺)	E1	E _γ : From ¹²⁵ La ε decay. Mult.: From Adopted Levels, gammas.
98.8 1	131 7	166.4+x	(9/2 ⁻)	67.6+x	(7/2 ⁻)	M1+E2	-1.97≤δ≤-1.46 or -0.46≤δ≤-0.29. A ₂ =-0.48 4, A ₄ =-0.04 6 (1978Gi08).
134.0 1	138 7	300.4+x	(11/2 ⁻)	166.4+x	(9/2 ⁻)	M1+E2	Mult.: From γ(θ) and α(K)exp in ¹²⁵ La ε decay. -2.25≤δ≤-0.274. A ₂ =-0.592 16, A ₄ =0.067 14 (1978Gi08); A ₂ =-0.19 2 (1988Ma49).
163 1		2911.5+x	(27/2 ⁻)	2747.6+x	(25/2 ⁻)	(D+Q)	Mult.: From γ(θ) and α(K)exp in ¹²⁵ La ε decay. E _γ : From 1988Ma49.
168.6 1	128 6	168.62+x	(7/2 ⁺)	0.0+x	(5/2 ⁺)	(M1)	A ₂ =-0.18 10 (1988Ma49). A ₂ =-0.297 19, A ₄ =0.057 19 (1978Gi08).
178.1 1	34.9 24	751.0+x	(15/2 ⁻)	572.9+x	(13/2 ⁻)	D+Q	Mult.: From γ(θ) and α(K)exp in ¹²⁵ La ε decay. -4.00≤δ≤-1.94 or -0.38≤δ≤-0.12. A ₂ =-0.34 5, A ₄ =0.02 5 (1978Gi08); A ₂ =-0.34 9 (1988Ma49).
184.2 2	3.0 7	2085.7+x	(23/2 ⁻)	1901.4+x	(21/2 ⁻)		

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¹⁰⁰Mo(²⁹Si,4n γ), ¹¹⁶Sn(¹²C,3n γ) **1978Gi08,1988Ma49,1992WaZN (continued)**

γ (¹²⁵Ba) (continued)

E_γ #	I_γ ‡	E_i (level)	J_i^π	E_f	J_f^π	Mult. †	Comments
191.6 2	6.6 11	1354.7+x	(19/2 ⁻)	1163.1+x	(17/2 ⁻)		$A_2=-0.08$ 3 (1988Ma49).
205 ^a		2678.8+x	(23/2 ⁺)	2474.1+x	(21/2 ⁺)		
216.3 1	35.6 25	384.92+x	(9/2 ⁺)	168.62+x	(7/2 ⁺)	M1+E2	$-2.71 \leq \delta \leq -2.29$ or $-0.23 \leq \delta \leq -0.176$. $A_2=-0.59$ 4, $A_4=0.05$ 4 (1978Gi08). Mult.: From $\gamma(\theta)$ and $\alpha(K)$ exp in ¹²⁵ La ϵ decay.
232.7 1	24 3	300.4+x	(11/2 ⁻)	67.6+x	(7/2 ⁻)		$A_2=-0.16$ 8, $A_4=0.09$ 10 (1978Gi08); $A_2=0.20$ 4 (1988Ma49).
236.9& 7		3769.7+x	(31/2 ⁻)	3532.7+x	(29/2 ⁻)	(D+Q)	$A_2=0.18$ 18 (1988Ma49).
254.5 1	30.6 21	639.43+x	(11/2 ⁺)	384.92+x	(9/2 ⁺)	D+Q	$-4.36 \leq \delta \leq -2.38$ or $-0.25 \leq \delta \leq -0.071$. $A_2=-0.50$ 6, $A_4=0.01$ 6 (1978Gi08).
256 ^a		4168.8+x	(33/2 ⁻)	3912.9+x	(31/2 ⁻)		
264 ^a		2942.6+x	(25/2 ⁺)	2678.8+x	(23/2 ⁺)		
272.4 1	78 4	572.9+x	(13/2 ⁻)	300.4+x	(11/2 ⁻)	D+Q	$-1.73 \leq \delta \leq -0.82$. $A_2=-0.742$ 10, $A_4=0.095$ 6(1978Gi08); $A_2=-0.54$ 9 (1988Ma49).
280 ^a		3222.7+x	(27/2 ⁺)	2942.6+x	(25/2 ⁺)		
291.7 2	9.0 13	931.30+x	(13/2 ⁺)	639.43+x	(11/2 ⁺)	D+Q	$A_2=-0.43$ 15, $A_4=0.05$ 14 (1978Gi08).
319 ^a		3873.7+x	(31/2 ⁺)	3554.7+x	(29/2 ⁺)		
321.7 2	11.8 18	1253.02+x	(15/2 ⁺)	931.30+x	(13/2 ⁺)	D+Q	$-4.71 \leq \delta \leq -2.57$ or $-0.25 \leq \delta \leq -0.087$. $A_2=-0.56$ 6, $A_4=0.09$ 5 (1978Gi08).
329 ^a		2678.8+x	(23/2 ⁺)	2350.3+x	(21/2 ⁺)		
332 ^a		3554.7+x	(29/2 ⁺)	3222.7+x	(27/2 ⁺)		
350.5 2	7.0 17	1603.47+x	(17/2 ⁺)	1253.02+x	(15/2 ⁺)	D+Q	$-7.0 \leq \delta \leq -1.94$ or $-0.39 \leq \delta \leq -0.03$. $A_2=-0.41$ 16, $A_4=0.27$ 13 (1978Gi08).
367 ^a		1970.4+x	(19/2 ⁺)	1603.47+x	(17/2 ⁺)		
377 ^a		4668.7+x	(35/2 ⁺)	4291.7+x	(33/2 ⁺)		
380 ^a		2350.3+x	(21/2 ⁺)	1970.4+x	(19/2 ⁺)		
380 ^a		3912.9+x	(31/2 ⁻)	3532.7+x	(29/2 ⁻)		
385.0 2	3.0 6	384.92+x	(9/2 ⁺)	0.0+x	(5/2 ⁺)		$A_2=0.05$ 15, $A_4=-0.01$ 18 (1978Gi08).
396.9& 7		4565.5+x	(35/2 ⁻)	4168.8+x	(33/2 ⁻)	(D+Q)	$A_2=-0.47$ 9 (1988Ma49).
399& 1		4168.8+x	(33/2 ⁻)	3769.7+x	(31/2 ⁻)	D+Q	$A_2=-0.55$ 16 (1988Ma49).
400& 1		4964.8+x	(37/2 ⁻)	4565.5+x	(35/2 ⁻)		
406.5 1	38.5 20	572.9+x	(13/2 ⁻)	166.4+x	(9/2 ⁻)	(Q)	$A_2=0.28$ 3, $A_4=-0.03$ 5 (1978Gi08); $A_2=0.40$ 9 (1988Ma49).
412.1 1	35 3	1163.1+x	(17/2 ⁻)	751.0+x	(15/2 ⁻)	(D+Q)	$-2.84 \leq \delta \leq -1.88$ or $-0.42 \leq \delta \leq -0.10$. $A_2=-0.39$ 5, $A_4=-0.04$ 8 (1978Gi08); -0.71 10 (1988Ma49).
418 ^a		4291.7+x	(33/2 ⁺)	3873.7+x	(31/2 ⁺)		
450.7 1	100 5	751.0+x	(15/2 ⁻)	300.4+x	(11/2 ⁻)	(Q)	$A_2=0.197$ 25, $A_4=0.017$ 33 (1978Gi08); $A_2=0.36$ 3 (1988Ma49).
468 ^{ac}		2942.6+x	(25/2 ⁺)	2474.1+x	(21/2 ⁺)		
470 ^a		5928.5+x	(41/2 ⁻)	5458.3+x	(39/2 ⁻)		
470.8 1	29 4	639.43+x	(11/2 ⁺)	168.62+x	(7/2 ⁺)	Q	$A_2=0.36$ 4, $A_4=-0.08$ 7 (1978Gi08).
494 ^a		5458.3+x	(39/2 ⁻)	4964.8+x	(37/2 ⁻)		
539 ^a		6467.4+x	(43/2 ⁻)	5928.5+x	(41/2 ⁻)		
544 ^a		3222.7+x	(27/2 ⁺)	2678.8+x	(23/2 ⁺)		
546.5 ^b 2	$\leq 28^b$	931.30+x	(13/2 ⁺)	384.92+x	(9/2 ⁺)		I_γ : Multiply placed, undivided intensity given. $A_2=-0.01$ 4, $A_4=-0.08$ 5 (1978Gi08); $A_2=-0.13$ 3 (1988Ma49).
546.5 ^b 2	$\leq 28^b$	1901.4+x	(21/2 ⁻)	1354.7+x	(19/2 ⁻)		I_γ : Multiply placed, undivided intensity given. $A_2=-0.01$ 4, $A_4=-0.08$ 5 (1978Gi08); $A_2=-0.13$ 3 (1988Ma49).
554 ^a		7021.4+x	(45/2 ⁻)	6467.4+x	(43/2 ⁻)		

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¹⁰⁰Mo(²⁹Si,4n γ), ¹¹⁶Sn(¹²C,3n γ) **1978Gi08,1988Ma49,1992WaZN (continued)**

γ (¹²⁵Ba) (continued)

E_γ #	I_γ ‡	E_i (level)	J_i^π	E_f	J_f^π	Mult. †	Comments
560.3 2	31 5	1803.2+x	(19/2 ⁻)	1242.8+x	(15/2 ⁻)	Q	A ₂ =0.23 3, A ₄ =-0.06 4 (1978Gi08).
590.2 1	31 5	1163.1+x	(17/2 ⁻)	572.9+x	(13/2 ⁻)	(Q)	A ₂ =0.35 7, A ₄ =-0.07 13 (1978Gi08); A ₂ =0.19 3 (1988Ma49).
592 ^a		2942.6+x	(25/2 ⁺)	2350.3+x	(21/2 ⁺)		
599.1 2	24 4	2402.3+x	(23/2 ⁻)	1803.2+x	(19/2 ⁻)	Q	A ₂ =0.253 21, A ₄ =-0.09 3 (1978Gi08).
603.6 2	56 8	1354.7+x	(19/2 ⁻)	751.0+x	(15/2 ⁻)	Q	A ₂ =0.24 5, A ₄ =0.02 9 (1978Gi08); A ₂ =0.17 3 (1988Ma49).
612 ^a		3554.7+x	(29/2 ⁺)	2942.6+x	(25/2 ⁺)		
613.7 3	16.5 13	1253.02+x	(15/2 ⁺)	639.43+x	(11/2 ⁺)	Q	A ₂ =0.38 5, A ₄ =0.07 15 (1978Gi08).
621 & 1	36 18	3532.7+x	(29/2 ⁻)	2911.5+x	(27/2 ⁻)	(D+Q)	A ₂ =0.14 5 (1988Ma49).
636.3 & 7		4168.8+x	(33/2 ⁻)	3532.7+x	(29/2 ⁻)		A ₂ =0.09 7 (1988Ma49).
640.2 2	15 3	1803.2+x	(19/2 ⁻)	1163.1+x	(17/2 ⁻)	D+Q	0.11 ≤ δ ≤ 0.40. A ₂ =0.10 12, A ₄ =-0.02 14 (1978Gi08). A ₂ =0.07 2 (1988Ma49).
651 ^a		3873.7+x	(31/2 ⁺)	3222.7+x	(27/2 ⁺)		
653 ^a		4565.5+x	(35/2 ⁻)	3912.9+x	(31/2 ⁻)		
661.8 2	15 3	2747.6+x	(25/2 ⁻)	2085.7+x	(23/2 ⁻)	(D+Q)	-7.69 ≤ δ ≤ -0.045. A ₂ =-0.36 4, A ₄ =-0.04 4 (1978Gi08); A ₂ =-0.60 4 (1988Ma49).
669.9 1	26 4	1242.8+x	(15/2 ⁻)	572.9+x	(13/2 ⁻)	D+Q	-3.0 ≤ δ ≤ -2.45 or -0.25 ≤ δ ≤ -0.19. A ₂ =-0.45 3, A ₄ =0.17 5 (1978Gi08). A ₂ =0.259 17, A ₄ =0.04 6 (1978Gi08).
672.1 3	17 3	1603.47+x	(17/2 ⁺)	931.30+x	(13/2 ⁺)	Q	A ₂ =0.259 17, A ₄ =0.04 6 (1978Gi08).
708 ^a		2678.8+x	(23/2 ⁺)	1970.4+x	(19/2 ⁺)		
717.3 @ 5	33 4	1970.4+x	(19/2 ⁺)	1253.02+x	(15/2 ⁺)	Q	A ₂ =0.33 5, A ₄ =-0.01 7 (1978Gi08).
731.1 2	40 5	2085.7+x	(23/2 ⁻)	1354.7+x	(19/2 ⁻)	Q	A ₂ =0.194 14, A ₄ =-0.026 21 (1978Gi08); A ₂ =0.22 3 (1988Ma49).
737 ^a		4291.7+x	(33/2 ⁺)	3554.7+x	(29/2 ⁺)		
738.5 2	23 3	1901.4+x	(21/2 ⁻)	1163.1+x	(17/2 ⁻)	Q	A ₂ =0.221 24, A ₄ =-0.04 3 (1978Gi08); A ₂ =0.23 4 (1988Ma49).
747 ^a		2350.3+x	(21/2 ⁺)	1603.47+x	(17/2 ⁺)		A ₂ =0.07 3 (1988Ma49).
777 ^a		2678.8+x	(23/2 ⁺)	1901.4+x	(21/2 ⁻)		
785.3 7		3532.7+x	(29/2 ⁻)	2747.6+x	(25/2 ⁻)	(Q)	E γ : From 1988Ma49. A ₂ =0.41 9 (1988Ma49).
795 & 1		4565.5+x	(35/2 ⁻)	3769.7+x	(31/2 ⁻)		A ₂ =0.11 6 (1988Ma49).
795 ^a		4668.7+x	(35/2 ⁺)	3873.7+x	(31/2 ⁺)		
796 & 1		4964.8+x	(37/2 ⁻)	4168.8+x	(33/2 ⁻)		
825.8 3	15 3	2911.5+x	(27/2 ⁻)	2085.7+x	(23/2 ⁻)	Q	A ₂ =0.35 4, A ₄ =-0.02 6 (1978Gi08); A ₂ =0.35 3 (1988Ma49).
846.2 2	6.4 12	2747.6+x	(25/2 ⁻)	1901.4+x	(21/2 ⁻)	(Q)	A ₂ =0.18 8, A ₂ =-0.01 11 (1978Gi08); A ₂ =0.16 4 (1988Ma49).
857 ^a		2942.6+x	(25/2 ⁺)	2085.7+x	(23/2 ⁻)		
857.8 & 7		3769.7+x	(31/2 ⁻)	2911.5+x	(27/2 ⁻)	(Q)	A ₂ =0.16 3 (1988Ma49).
863 ^a		5154.7+x	(37/2 ⁺)	4291.7+x	(33/2 ⁺)		
871 ^a		2474.1+x	(21/2 ⁺)	1603.47+x	(17/2 ⁺)		
892 ^a		5458.3+x	(39/2 ⁻)	4565.5+x	(35/2 ⁻)		
939 ^a		5607.7+x	(39/2 ⁺)	4668.7+x	(35/2 ⁺)		
964 ^a		5928.5+x	(41/2 ⁻)	4964.8+x	(37/2 ⁻)		
978 ^a		4747.7+x	(35/2 ⁺)	3769.7+x	(31/2 ⁻)		
1002 ^a		3912.9+x	(31/2 ⁻)	2911.5+x	(27/2 ⁻)		
1009 ^a		6467.4+x	(43/2 ⁻)	5458.3+x	(39/2 ⁻)		
1072 ^a		6679.7+x	(43/2 ⁺)	5607.7+x	(39/2 ⁺)		
1093 ^a		7021.4+x	(45/2 ⁻)	5928.5+x	(41/2 ⁻)		
1107 ^a		7574.4+x	(47/2 ⁻)	6467.4+x	(43/2 ⁻)		

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$^{100}\text{Mo}(^{29}\text{Si},4n\gamma), ^{116}\text{Sn}(^{12}\text{C},3n\gamma)$ **1978Gi08,1988Ma49,1992WaZN (continued)**

$\gamma(^{125}\text{Ba})$ (continued)

E_γ [#]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1121 ^a	7800.7+x	(47/2 ⁺)	6679.7+x	(43/2 ⁺)
1180 ^a	8201.4+x	(49/2 ⁻)	7021.4+x	(45/2 ⁻)
1186 ^a	8760.4+x	(51/2 ⁻)	7574.4+x	(47/2 ⁻)
1186 ^a	9946.4+x	(55/2 ⁻)	8760.4+x	(51/2 ⁻)
1232 ^a	11178.4+x	(59/2 ⁻)	9946.4+x	(55/2 ⁻)

[†] From $\gamma(\theta)$, unless otherwise noted.

[‡] Relative to $I(450.7\gamma)=100$ at $E=54$ MeV and $\theta=125^\circ$ (**1978Gi08**), unless otherwise indicated.

[#] From **1978Gi08**, unless otherwise noted.

[@] Complex peak.

[&] From (**1988Ma49**). Uncertainties of energy and intensity are assumed based on the experimental uncertainties of 0.1-0.7 keV for energy and 0.5-50% for intensity.

^a From (**1992WaZN**). Uncertainties of energy and intensity are not given.

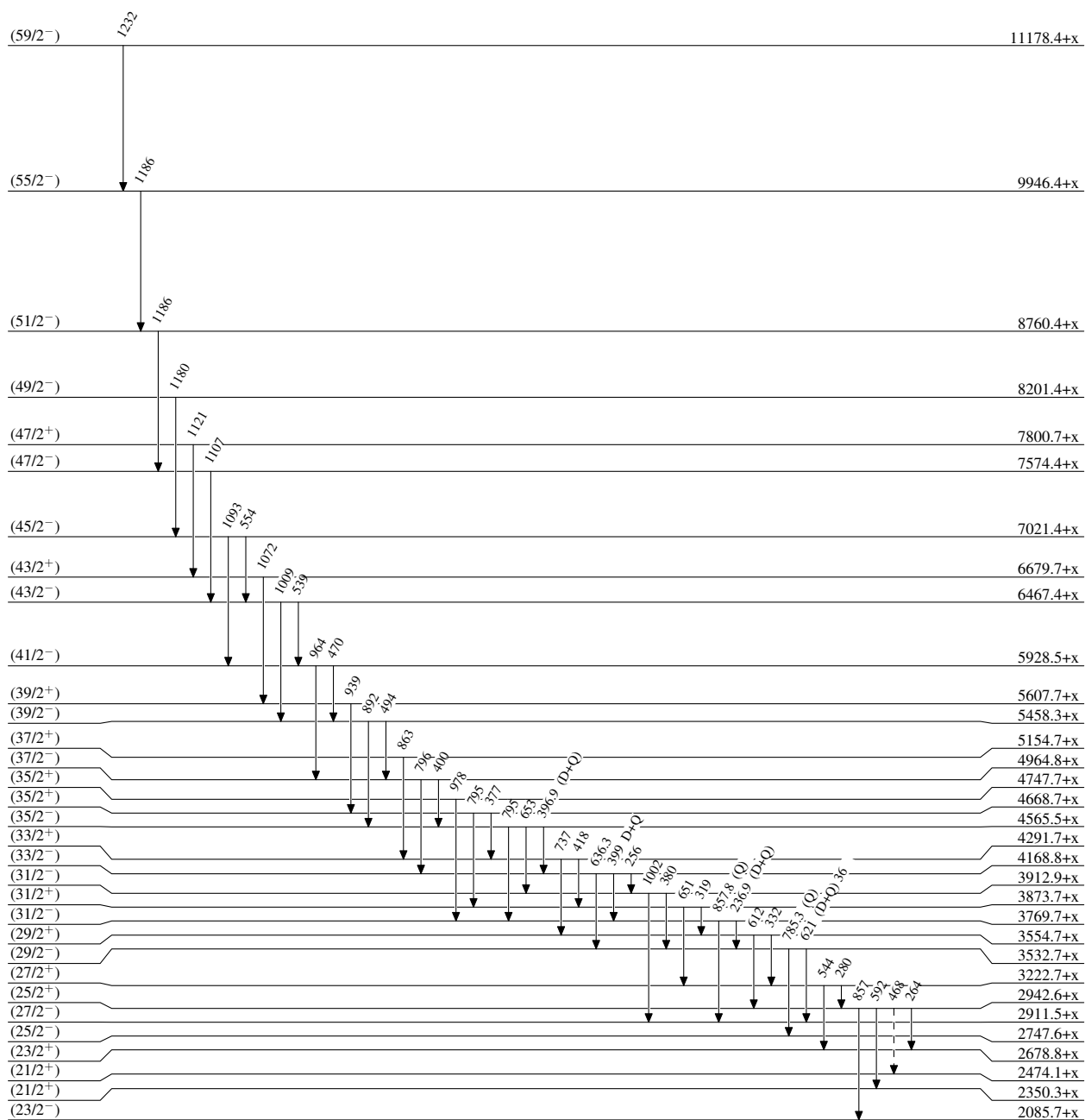
^b Multiply placed with undivided intensity.

^c Placement of transition in the level scheme is uncertain.

$^{100}\text{Mo}(^{29}\text{Si},4n\gamma), ^{116}\text{Sn}(^{12}\text{C},3n\gamma)$ 1978Gi08,1988Ma49,1992WaZN

Legend

Level Scheme




Intensities: Relative I_γ -----► γ Decay (Uncertain) $^{125}_{56}\text{Ba}_{69}$

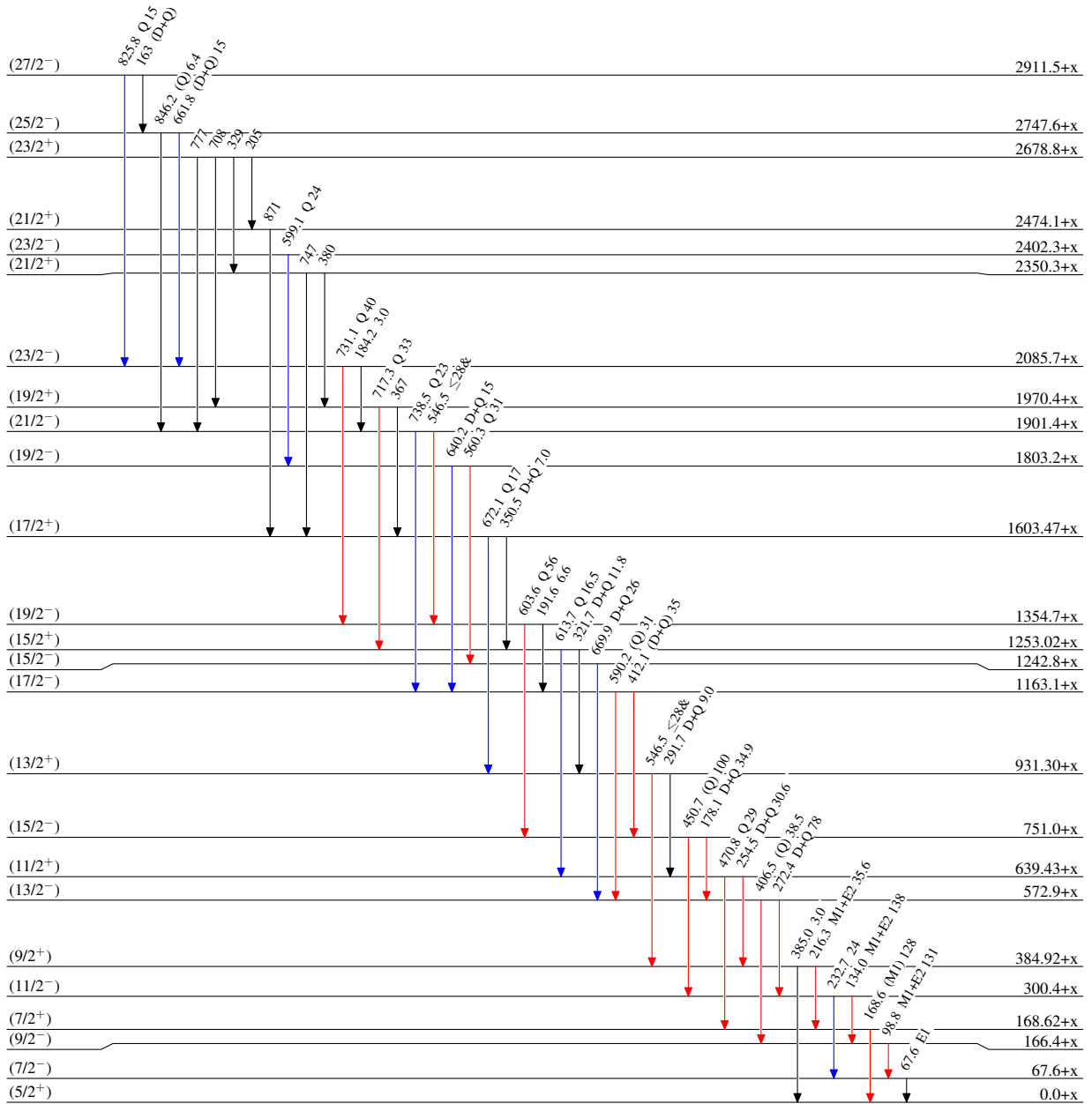
$^{100}\text{Mo}(^{29}\text{Si},4n\gamma), ^{116}\text{Sn}(^{12}\text{C},3n\gamma)$ 1978Gi08,1988Ma49,1992WaZN

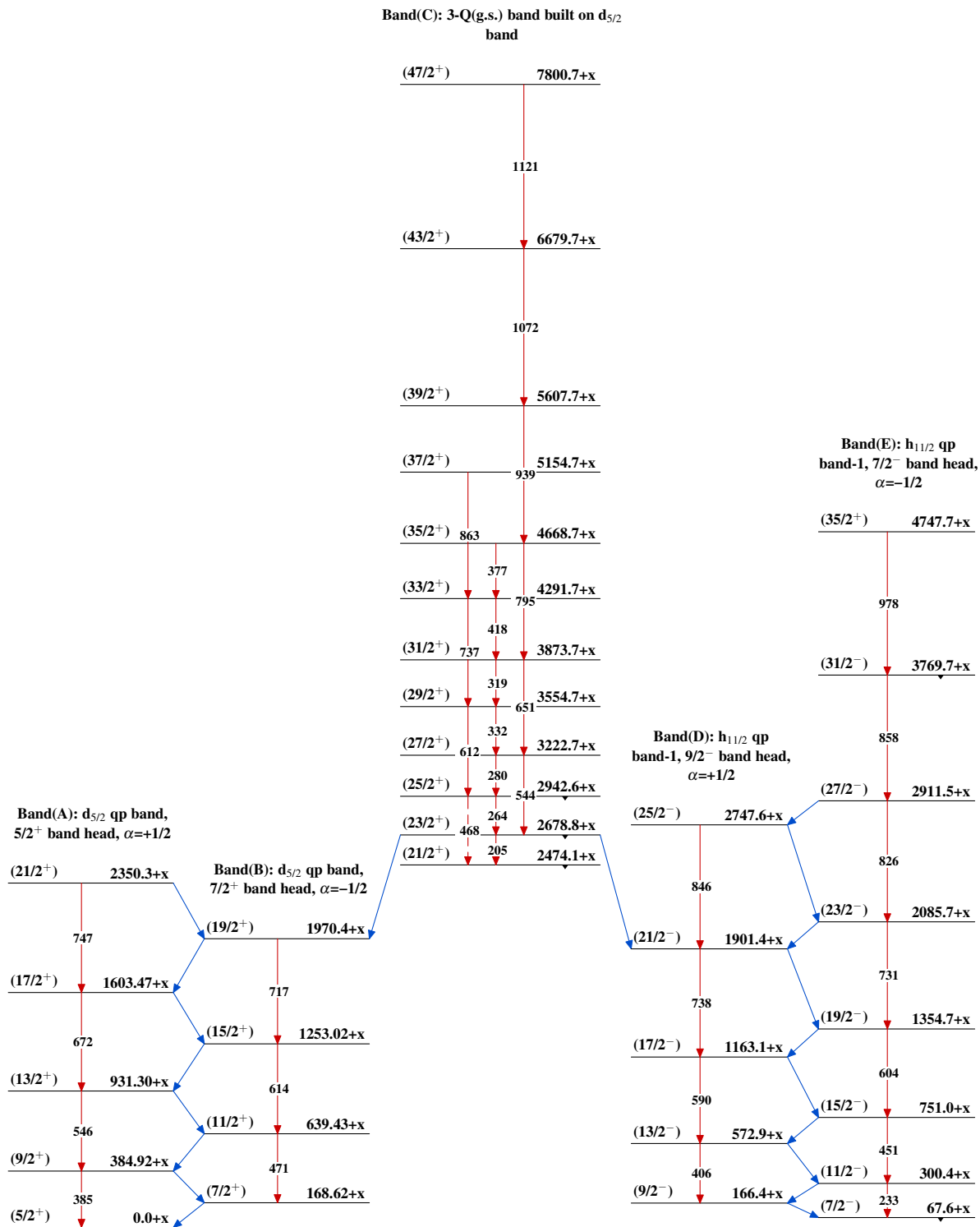
Level Scheme (continued)

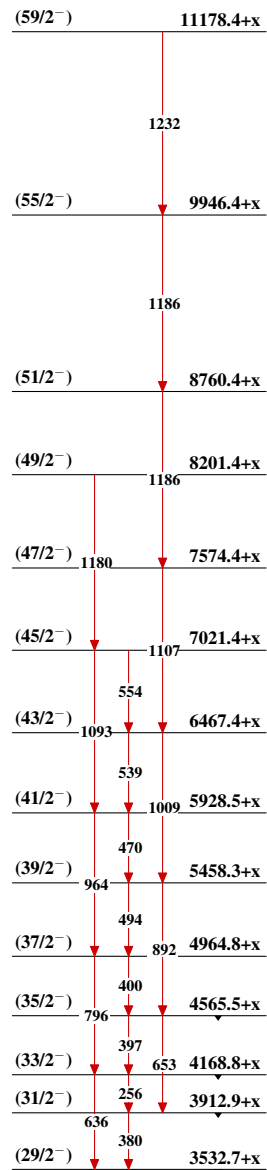
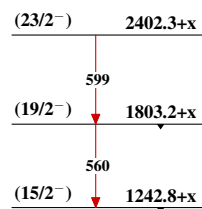
Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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

 $^{125}_{56}\text{Ba}_{69}$

$^{100}\text{Mo}(^{29}\text{Si},4n\gamma), ^{116}\text{Sn}(^{12}\text{C},3n\gamma)$ 1978Gi08,1988Ma49,1992WaZN

$^{100}\text{Mo}(^{29}\text{Si},4n\gamma), ^{116}\text{Sn}(^{12}\text{C},3n\gamma)$ 1978Gi08,1988Ma49,1992WaZN (continued)Band(F): 3-Q(g.s.) band built on $H_{11/2}$
bandBand(G): $h_{11/2}$ qp
band-2 $^{125}_{56}\text{Ba}_{69}$