

(HL,xn γ) 1995Es04

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

 $^{100}\text{Mo}(^{11}\text{B},3n\gamma)$ E= 39 MeV.Measured: γ , $\gamma\gamma$, $\gamma(\theta)$; HPGe, Compton suppressed HPGe detectors. ^{108}Ag Levels

E(level)	J^π †	E(level)	J^π †	E(level)	J^π †	E(level)	J^π †
0	1 ⁺	800.07 ^a 22	(7 ⁺)	2062.5 [@] 3	(10 ⁺)	2903.1 ^{&} 5	(12 ⁻)
109.4	6 ⁺	808.61 ^{&} 20	(8 ⁺)	2142.8 4	(11 ⁻)	2906.6 ^b 4	(13 ⁺)
215.0 3	3 ⁺	917.52 ^a 24	(8 ⁺)	2274.1 [#] 4	(11 ⁻)	2993.7 [‡] 4	(14 ⁻)
289.90 22		1089.9 [‡] 3	(10 ⁻)	2302.2 4	(11 ⁻)	3169.8 ^b 4	(14 ⁺)
364.8		1096.49 [@] 22	(8 ⁺)	2368.9 ^a 3	(11 ⁺)	3187.6 [#] 6	(14 ⁻)
374.50 15	(7 ⁺)	1370.5 [@] 3	(9 ⁺)	2369.8 [@] 5	(11 ⁺)	3492.1 ^b 4	(15 ⁺)
419.42 23		1434.5 [‡] 4	(11 ⁻)	2424.4 ^b 4	(11 ⁺)	3558.1 [‡] 5	(15 ⁻)
438.63 24	(6 ⁻)	1487.94 ^a 25	(9 ⁺)	2442.9 [‡] 4	(13 ⁻)	3605.6 [#] 6	(15 ⁻)
497.17 [‡] 19	(7 ⁻)	1640.8 [#] 4	(10 ⁻)	2536.1 [#] 4	(12 ⁻)	3869.9 ^b 5	(16 ⁺)
522.33 ^a 16	(6 ⁺)	1668.0 ^{&} 4	(9 ⁺)	2666.2 ^a 4	(12 ⁺)	4090.4 [‡] 5	(16 ⁻)
532.83 23	(8 ⁻)	1671.9 ^a 3	(10 ⁺)	2673.4 ^b 4	(12 ⁺)	4179.4 [#] 6	(16 ⁻)
686.6 [‡] 4	(9 ⁻)	1785.8 ^{&} 4	(10 ⁻)	2709.0 ^{&} 5	(11 ⁻)	4310.3 ^b 5	(17 ⁺)
733.44 20	(7 ⁺)	1941.2 [‡] 4	(12 ⁻)	2846.8 [#] 5	(13 ⁻)		

† The J^π are based from the proposed band structure and DCO ratios.

‡ Band(A): band 1, yrast band.

Band(B): band 2.

@ Band(C): band 3.

& Band(D): band 4.

^a Band(E): band 5.^b Band(F): band 6. $\gamma(^{108}\text{Ag})$

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
35.3 3	10.0 20	532.83	(8 ⁻)	497.17	(7 ⁻)	
54.8 3	4.0 10	419.42		364.8		
58.5 3	23.6 9	497.17	(7 ⁻)	438.63	(6 ⁻)	
75.0 3	9.0 20	808.61	(8 ⁺)	733.44	(7 ⁺)	
75.5 3		289.90		215.0	3 ⁺	
75.5 3		364.8		289.90		
103.1 3	10.4 5	522.33	(6 ⁺)	419.42		Mult.: DCO=0.96 10.
109.4		109.4	6 ⁺	0	1 ⁺	
117.8 3	5.6 4	917.52	(8 ⁺)	800.07	(7 ⁺)	Mult.: DCO=0.62 14.
122.6 3	1.7 4	497.17	(7 ⁻)	374.50	(7 ⁺)	
148.2 3	4.1 5	522.33	(6 ⁺)	374.50	(7 ⁺)	Mult.: DCO=0.42 12.
153.9 3	81.5 9	686.6	(9 ⁻)	532.83	(8 ⁻)	Mult.: DCO=0.64 9.
157.6 3	4.2 7	532.83	(8 ⁻)	374.50	(7 ⁺)	
157.9 3	1.9 4	522.33	(6 ⁺)	364.8		Mult.: DCO=0.69 14.
183.5 3	1.5 4	1671.9	(10 ⁺)	1487.94	(9 ⁺)	
215.5 3	7.3 5	215.0	3 ⁺	0	1 ⁺	Mult.: DCO=1.00 18.
233.3 3	13.1 6	2906.6	(13 ⁺)	2673.4	(12 ⁺)	Mult.: DCO=0.71 6.

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(HI,xn γ) 1995Es04 (continued) $\gamma(^{108}\text{Ag})$ (continued)

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
234.0 3	4.8 6	2536.1	(12 ⁻)	2302.2	(11 ⁻)	
240.4 3	7.3 5	2906.6	(13 ⁺)	2666.2	(12 ⁺)	Mult.: DCO=0.70 10.
249.2 3	4.0 6	2673.4	(12 ⁺)	2424.4	(11 ⁺)	Mult.: DCO=0.59 17.
255.4 3	10.7 5	364.8		109.4	6 ⁺	Mult.: DCO=0.61 8.
261.8 3	3.0 5	2536.1	(12 ⁻)	2274.1	(11 ⁻)	
263.4 3	17.7 6	3169.8	(14 ⁺)	2906.6	(13 ⁺)	Mult.: DCO=0.69 6.
265.3 3	19.9 7	374.50	(7 ⁺)	109.4	6 ⁺	Mult.: DCO=0.63 11.
278.2 3	4.9 5	800.07	(7 ⁺)	522.33	(6 ⁺)	Mult.: DCO=0.46 16.
304.5 3	4.2 6	2673.4	(12 ⁺)	2369.8	(11 ⁺)	
310.7 3	6.3 6	2846.8	(13 ⁻)	2536.1	(12 ⁻)	Mult.: DCO=0.57 15.
322.4 3	14.5 7	3492.1	(15 ⁺)	3169.8	(14 ⁺)	Mult.: DCO=0.75 9.
329.2 3	100.0 9	438.63	(6 ⁻)	109.4	6 ⁺	Mult.: DCO=0.84 9.
340.8 3	6.2 6	3187.6	(14 ⁻)	2846.8	(13 ⁻)	Mult.: DCO=0.83 18.
344.7 3	48.4 9	1434.5	(11 ⁻)	1089.9	(10 ⁻)	Mult.: DCO=0.59 9.
359.1 3	5.9 7	733.44	(7 ⁺)	374.50	(7 ⁺)	
361.0 3	2.2 6	2302.2	(11 ⁻)	1941.2	(12 ⁻)	
378.0 3	10.9 5	3869.9	(16 ⁺)	3492.1	(15 ⁺)	Mult.: DCO=0.86 20.
387.5 3	10.5 7	497.17	(7 ⁻)	109.4	6 ⁺	Mult.: DCO=0.67 10.
393.2 3	8.3 7	2536.1	(12 ⁻)	2142.8	(11 ⁻)	Mult.: DCO=0.62 14.
395.6 3	32.3 9	917.52	(8 ⁺)	522.33	(6 ⁺)	Mult.: DCO=0.91 14.
403.3 3	72.7 9	1089.9	(10 ⁻)	686.6	(9 ⁻)	Mult.: DCO=0.70 9.
412.9 3	16.4 8	522.33	(6 ⁺)	109.4	6 ⁺	Mult.: DCO=0.90 12.
417.7 3	5.8 6	3605.6	(15 ⁻)	3187.6	(14 ⁻)	
425.8 3	7.2 7	800.07	(7 ⁺)	374.50	(7 ⁺)	Mult.: DCO=0.93 27.
434.3 3	13.0 9	808.61	(8 ⁺)	374.50	(7 ⁺)	
440.5 3	5.5 7	4310.3	(17 ⁺)	3869.9	(16 ⁺)	Mult.: DCO=0.68 17.
496.5 3	5.6 9	3169.8	(14 ⁺)	2673.4	(12 ⁺)	
501.6 3	15 3	2442.9	(13 ⁻)	1941.2	(12 ⁻)	Mult.: DCO=0.62 9.
502.0 3	6 1	2142.8	(11 ⁻)	1640.8	(10 ⁻)	Mult.: DCO=0.58 21.
506.7 3	41.8 9	1941.2	(12 ⁻)	1434.5	(11 ⁻)	Mult.: DCO=0.53 8.
532.6 3	6.4 9	4090.4	(16 ⁻)	3558.1	(15 ⁻)	
537.4 3	5.3 9	2906.6	(13 ⁺)	2369.8	(11 ⁺)	
550.9 3	10.3 9	2993.7	(14 ⁻)	2442.9	(13 ⁻)	Mult.: DCO=0.65 9.
557.0 3	5.3 8	1089.9	(10 ⁻)	532.83	(8 ⁻)	
564.6 3	7.0 9	3558.1	(15 ⁻)	2993.7	(14 ⁻)	Mult.: DCO=0.59 14.
570.8 3	7.2 9	1487.94	(9 ⁺)	917.52	(8 ⁺)	
573.6 3	4.7 9	4179.4	(16 ⁻)	3605.6	(15 ⁻)	
585.4 3	3.6 9	3492.1	(15 ⁺)	2906.6	(13 ⁺)	
595.1 3	6.0 9	2536.1	(12 ⁻)	1941.2	(12 ⁻)	
623.7 3	5.7 9	733.44	(7 ⁺)	109.4	6 ⁺	
688.2 3	6.3 9	1487.94	(9 ⁺)	800.07	(7 ⁺)	
692.0 3	5.4 9	2062.5	(10 ⁺)	1370.5	(9 ⁺)	
697.0 3	3.2 9	2368.9	(11 ⁺)	1671.9	(10 ⁺)	
699.2 3	5.3 9	808.61	(8 ⁺)	109.4	6 ⁺	
700.1 3	4.0 9	3869.9	(16 ⁺)	3169.8	(14 ⁺)	
722.0 3	12.2 13	1096.49	(8 ⁺)	374.50	(7 ⁺)	
748.0 3	15.4 11	1434.5	(11 ⁻)	686.6	(9 ⁻)	Mult.: DCO=0.90 12.
754.8 3	37.7 12	1671.9	(10 ⁺)	917.52	(8 ⁺)	Mult.: DCO=1.08 18.
818.0 3	3.4 8	4310.3	(17 ⁺)	3492.1	(15 ⁺)	
851.2 3	9.5 11	1941.2	(12 ⁻)	1089.9	(10 ⁻)	Mult.: DCO=0.82 17.
880.9 3	5.0 9	2368.9	(11 ⁺)	1487.94	(9 ⁺)	
895.3 3	5.2 9	2536.1	(12 ⁻)	1640.8	(10 ⁻)	
934.6 3	4.4 11	1668.0	(9 ⁺)	733.44	(7 ⁺)	
936.6 3	4.2 9	2424.4	(11 ⁺)	1487.94	(9 ⁺)	
954.0 3	9.5 9	1487.94	(9 ⁺)	532.83	(8 ⁻)	Mult.: DCO=0.73 13.
965.9 3	4.6 9	2062.5	(10 ⁺)	1096.49	(8 ⁺)	

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(HI,xn γ) 1995Es04 (continued) $\gamma(^{108}\text{Ag})$ (continued)

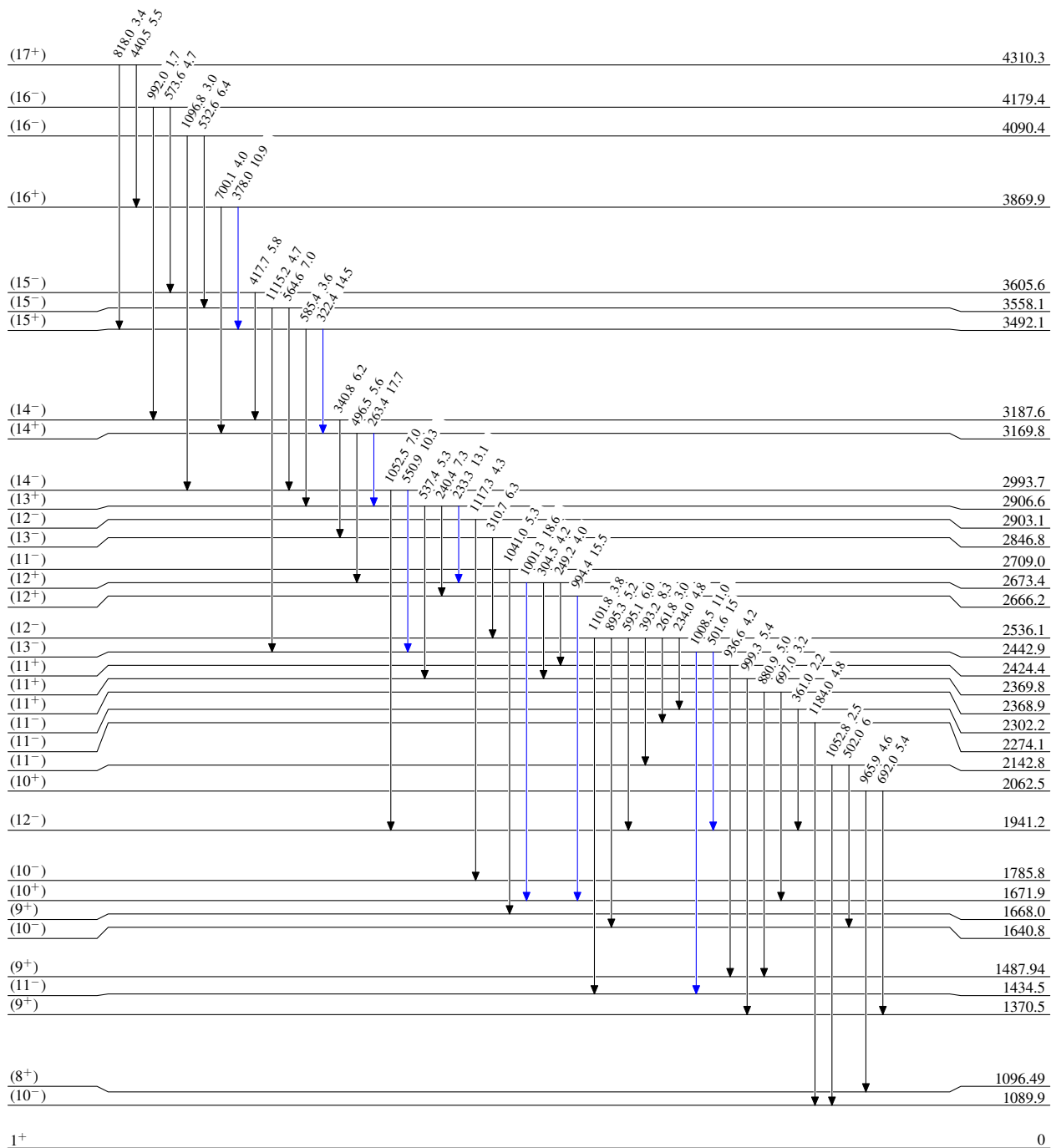
E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
977.2 3	6.7 9	1785.8	(10 ⁻)	808.61	(8 ⁺)	
987.0 3	5.6 12	1096.49	(8 ⁺)	109.4	6 ⁺	
992.0 3	1.7 7	4179.4	(16 ⁻)	3187.6	(14 ⁻)	
994.4 3	15.5 12	2666.2	(12 ⁺)	1671.9	(10 ⁺)	Mult.: DCO=1.00 19.
996.1 3	5.7 12	1370.5	(9 ⁺)	374.50	(7 ⁺)	
999.3 3	5.4 10	2369.8	(11 ⁺)	1370.5	(9 ⁺)	
1001.3 3	18.6 11	2673.4	(12 ⁺)	1671.9	(10 ⁺)	Mult.: DCO=0.89 16.
1008.5 3	11.0 10	2442.9	(13 ⁻)	1434.5	(11 ⁻)	Mult.: DCO=0.93 14.
1041.0 3	5.3 12	2709.0	(11 ⁻)	1668.0	(9 ⁺)	
1052.5 3	7.0 11	2993.7	(14 ⁻)	1941.2	(12 ⁻)	
1052.8 3	2.5 5	2142.8	(11 ⁻)	1089.9	(10 ⁻)	
1096.8 3	3.0 9	4090.4	(16 ⁻)	2993.7	(14 ⁻)	
1101.8 3	3.8 9	2536.1	(12 ⁻)	1434.5	(11 ⁻)	
1108.0 3	3.0 9	1640.8	(10 ⁻)	532.83	(8 ⁻)	
1115.2 3	4.7 9	3558.1	(15 ⁻)	2442.9	(13 ⁻)	
1117.3 3	4.3 8	2903.1	(12 ⁻)	1785.8	(10 ⁻)	
1184.0 3	4.8 8	2274.1	(11 ⁻)	1089.9	(10 ⁻)	

(HI,xn γ) 1995Es04

Level Scheme
 Intensities: Type not specified

Legend

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



$^{108}_{47}\text{Ag}_{61}$

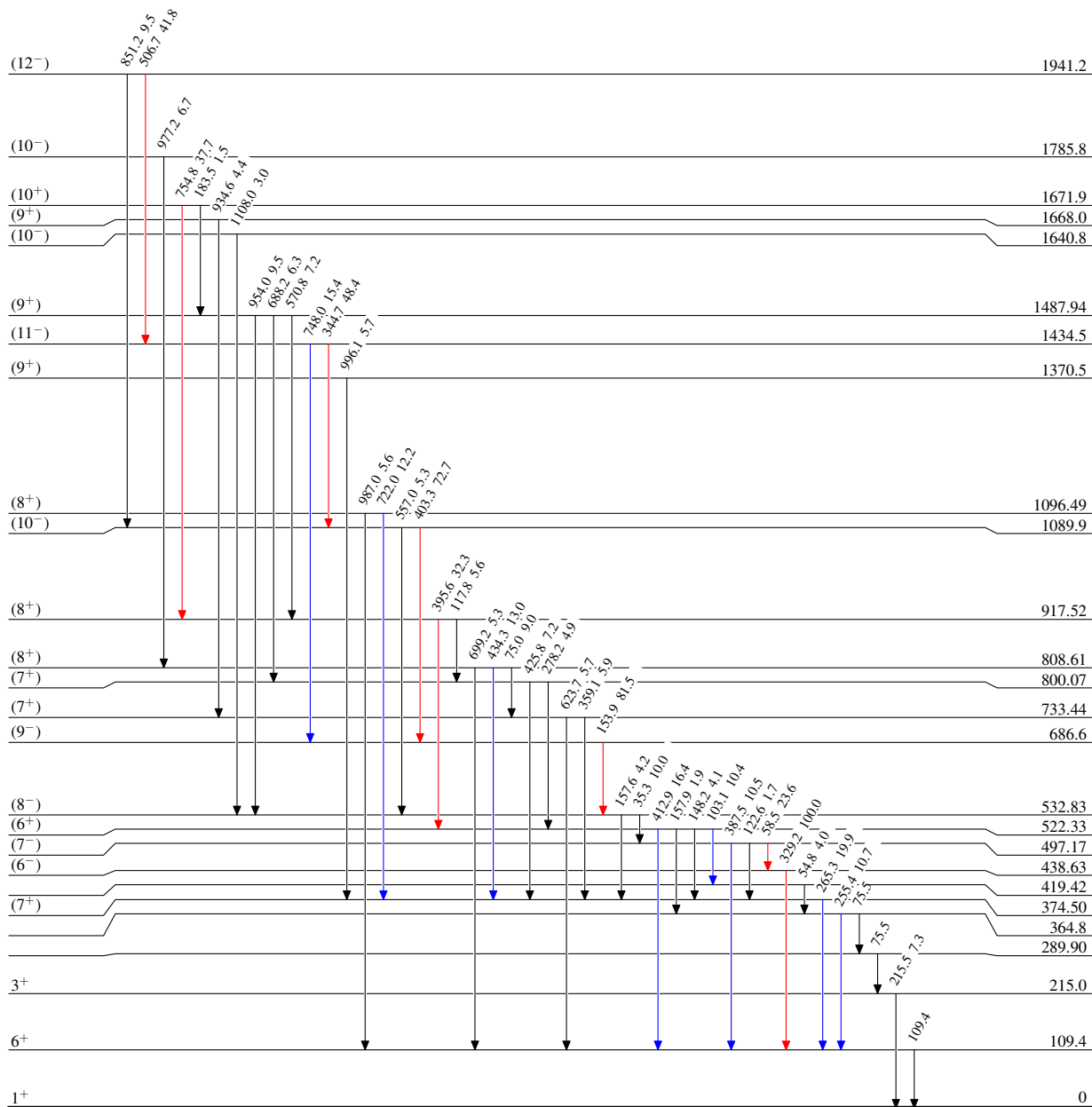
(HI,xn γ) 1995Es04

Level Scheme (continued)

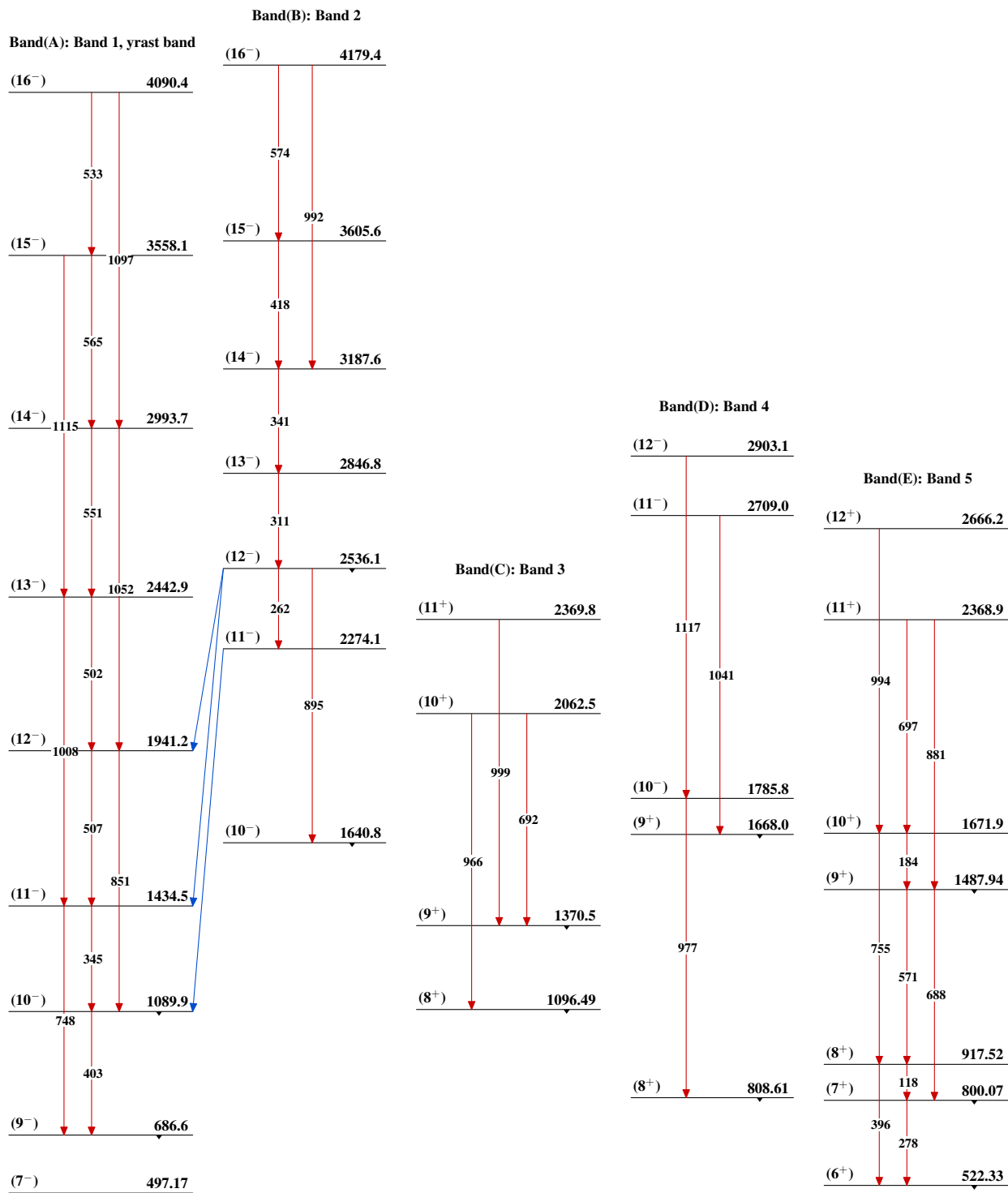
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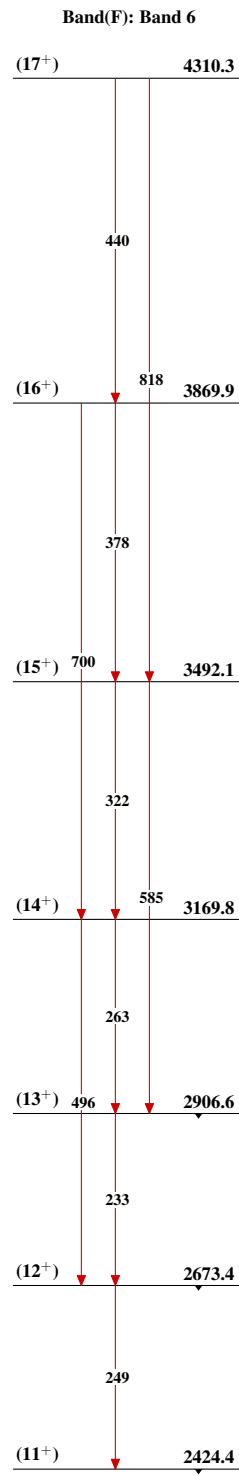
Legend

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



$^{108}_{47}\text{Ag}_{61}$

(HI,xn γ) 1995Es04 $^{108}_{47}\text{Ag}_{61}$

(HI,xn γ) 1995Es04 (continued) $^{108}_{47}\text{Ag}_{61}$