^{104}Pd(p,nγ) E=5.9-6.75 MeV 1979De44

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 108,2035 (2007)	30-Mar-2007

Measured: γ, σ(E,Eγ,θ),Ge(Li), low-energy photon spectrometer. Neutron tof spectra and angular distribution.
Assuming the mass excesses for ^{104}Pd (1977Wa08), the mass of ^{104}Ag was measured as: 103.908615 *7*.

^{104}Ag Levels

E(level)	Jπ†	Comments
0	5^+	Jπ: from Adopted Levels.
6.90 *42*	2^+	Jπ: from the angular distributions of the $5/2^+$ and $3/2^+$ analog resonances.
90.6 *4*	1^+	Jπ: from ^{104}Cd decay.
130.7 *4*	3^+	
157.4 *4*	2^+	
231.3 *4*	3^+	
269.7 *3*	4^+	
342.7 *4*	3^-	Jπ: $J^\pi=3^-$, 1^- not resolved for the doublet 342 and 348.
348.1 *4*	1^-	
390.5 *5*	4	
433.7 *4*	2^-	
463.2 *4*	3^-	
480.3 *4*	2^+	
503.0 *6*	4	
535.0 *4*	3^-	
570.7 *5*		
579.6 *4*		
590.2 *5*		
644.8 *5*		
652.2 *5*		
675.4 *5*		
699.1 *4*	(1,2)	
705.0 *4*	$(1,2)^-$	
716.5 *5*	1^+	
747.3 *5*		
763.4 *4*		
796.9 *5*	2^-	
832.1 *5*		
847.3 *5*		
932.0 *5*		
945.3 *5*		
961.7 *5*		
999.8 *5*		
1048.3 *5*		
1061.4 *5*		
1094.5 *5*		
1113.1 *5*		
1185.4 *5*		

† From the neutron decay of the $5/2^+$, $1/2^+$, $3/2^+$ isobaric-analog resonance in ^{105}Ag and comparison between angular distributions on-resonance and off-resonance.

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$\gamma(^{104}Ag)$

E_γ †	E_i(level)	J_i^π	E_f	J_f^π	E_γ †	E_i(level)	J_i^π	E_f	J_f^π
66.8 *3*	157.4	2^+	90.6	1^+	377.6 *3*	535.0	3^-	157.4	2^+
74.0 *3*	231.3	3^+	157.4	2^+	389.8 *3*	480.3	2^+	90.6	1^+
83.7 *3*	90.6	1^+	6.90	2^+	404.3 *3*	535.0	3^-	130.7	3^+
85.5 *3*	433.7	2^-	348.1	1^-	413.4 *3*	570.7		157.4	2^+
91.0 *3*	433.7	2^-	342.7	3^-	415.3 *3*	763.4		348.1	1^-
112.5 *3*	503.0	4	390.5	4	422.3 *3*	579.6		157.4	2^+
115.1 *3*	463.2	3^-	348.1	1^-	426.8 *3*	433.7	2^-	6.90	2^+
119.4 *3*	699.1	(1,2)	579.6		440.1 *3*	570.7		130.7	3^+
120.5 *3*	463.2	3^-	342.7	3^-	449.0 *3*	579.6		130.7	3^+
123.8 *3*	130.7	3^+	6.90	2^+	473.4 *3*	480.3	2^+	6.90	2^+
139.0 *3*	269.7	4^+	130.7	3^+	483.9 *3*	832.1		348.1	1^-
145.9 *3*	579.6		433.7	2^-	489.0 *3*	579.6		90.6	1^+
150.5 *3*	157.4	2^+	6.90	2^+	494.8 *3*	652.2		157.4	2^+
159.1 *3*	390.5	4	231.3	3^+	499.2 *3*	847.3		348.1	1^-
170.0 *3*	705.0	$(1,2)^-$	535.0	3^-	528.1 *3*	535.0	3^-	6.90	2^+
179.0 *3*	269.7	4^+	90.6	1^+	544.9 *3*	675.4		130.7	3^+
183.8 *3*	763.4		579.6		559.1 *3*	716.5	1^+	157.4	2^+
185.3 *3*	342.7	3^-	157.4	2^+	563.8 *3*	570.7		6.90	2^+
192.3 *3*	535.0	3^-	342.7	3^-	572.7 *3*	579.6		6.90	2^+
212.1 *3*	342.7	3^-	130.7	3^+	583.3 *3*	590.2		6.90	2^+
218.6 *3*	652.2		433.7	2^-	589.3 *3*	932.0		342.7	3^-
224.4 *3*	231.3	3^+	6.90	2^+	602.8 *3*	945.3		342.7	3^-
228.5 *3*	763.4		535.0	3^-	613.1 *3*	961.7		348.1	1^-
233.1 *3*	390.5	4	157.4	2^+	616.0 *3*	847.3		231.3	3^+
241.8 *3*	705.0	$(1,2)^-$	463.2	3^-	626.0 *3*	716.5	1^+	90.6	1^+
249.0 *3*	480.3	2^+	231.3	3^+	639.5 *3*	796.9	2^-	157.4	2^+
252.1 *3*	342.7	3^-	90.6	1^+	645.2 *3*	652.2		6.90	2^+
257.6 *3*	348.1	1^-	90.6	1^+	668.6 *3*	675.4		6.90	2^+
265.4 *3*	699.1	(1,2)	433.7	2^-	709.6 *3*	716.5	1^+	6.90	2^+
269.7 *3*	269.7	4^+	0	5^+	713.2 *3*	1061.4		348.1	1^-
271.3 *3*	705.0	$(1,2)^-$	433.7	2^-	718.9 *3*	1061.4		342.7	3^-
276.3 *3*	433.7	2^-	157.4	2^+	740.4 *3*	747.3		6.90	2^+
296.7 *3*	644.8		348.1	1^-	756.6 *3*	763.4		6.90	2^+
303.0 *3*	433.7	2^-	130.7	3^+	774.8 *3*	932.0		157.4	2^+
305.8 *3*	463.2	3^-	157.4	2^+	790.0 *3*	796.9	2^-	6.90	2^+
323.0 *3*	480.3	2^+	157.4	2^+	804.1 *3*	961.7		157.4	2^+
329.8 *3*	763.4		433.7	2^-	825.2 *3*	832.1		6.90	2^+
332.5 *3*	463.2	3^-	130.7	3^+	869.3 *3*	999.8		130.7	3^+
335.8 *3*	342.7	3^-	6.90	2^+	891.1 *3*	1048.3		157.4	2^+
341.2 *3*	348.1	1^-	6.90	2^+	955.9 *3*	1113.1		157.4	2^+
343.1 *3*	433.7	2^-	90.6	1^+	1022.7 *3*	1113.1		90.6	1^+
351.0 *3*	699.1	(1,2)	348.1	1^-	1041.3 *3*	1048.3		6.90	2^+
356.4 *3*	699.1	(1,2)	342.7	3^-	1087.9 *3*	1094.5		6.90	2^+
362.2 *3*	705.0	$(1,2)^-$	342.7	3^-	1178.5 *3*	1185.4		6.90	2^+
365.7 *3*	945.3		579.6						

† $\Delta E\gamma$ not given by the authors, assumed to be 0.3 keV by the evaluator. Iγ not given.

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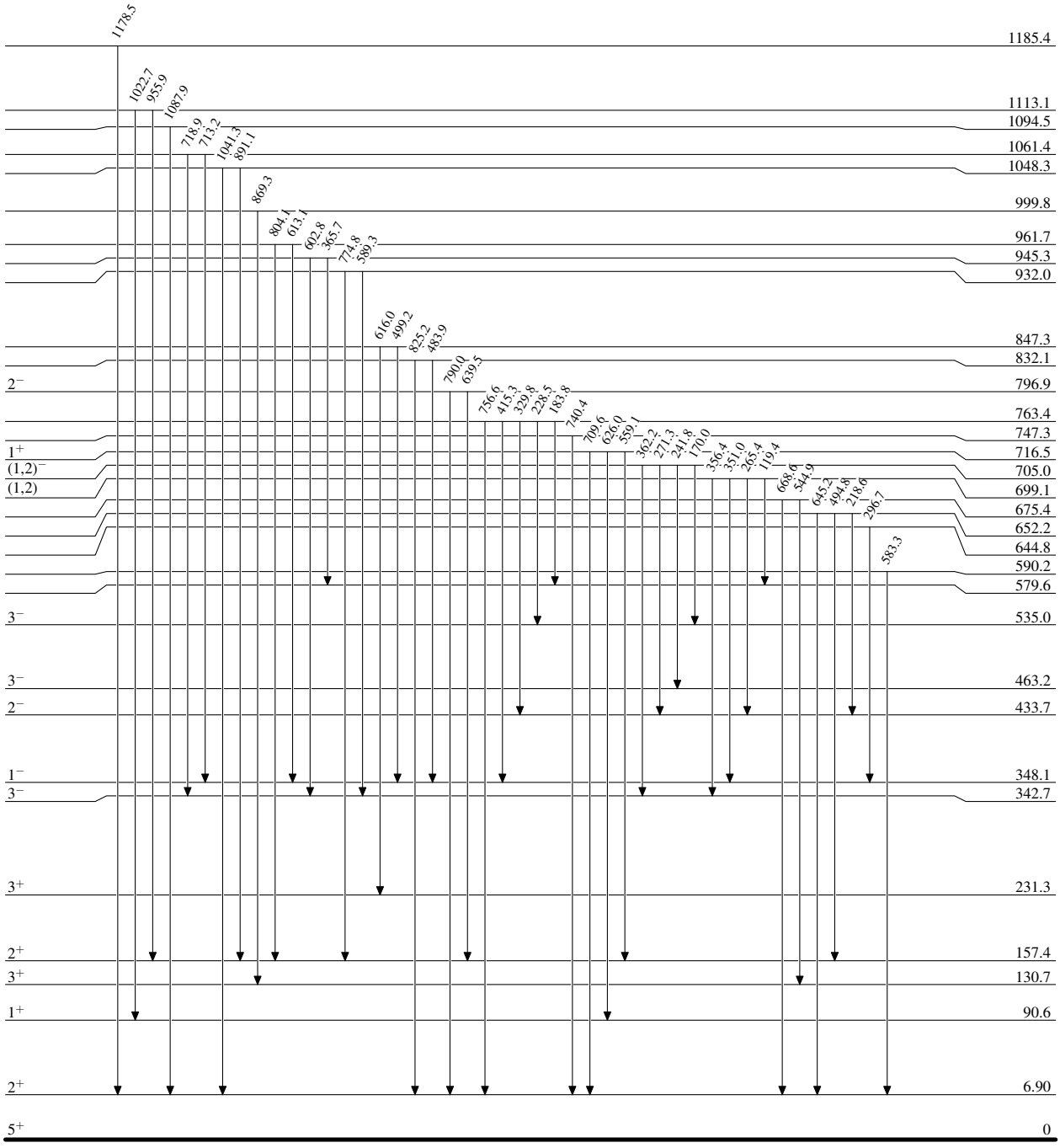
Level Scheme



$^{104}_{47}Ag_{57}$

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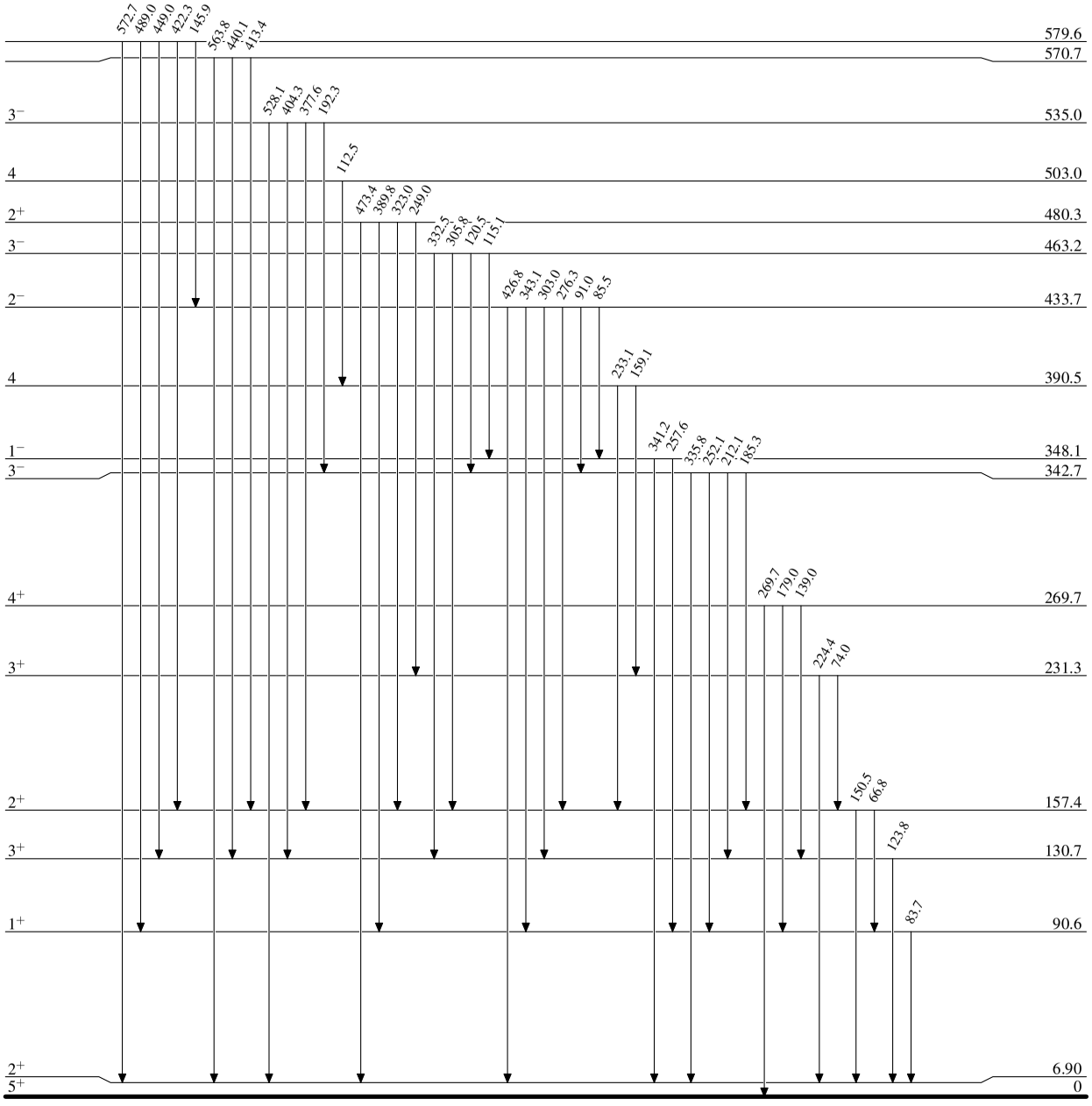
Level Scheme (continued)



$^{104}_{47}Ag_{57}$