

$^{100}\text{Mo}(^{11}\text{B},4n\gamma)$ 1997Es02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 109, 1383 (2008)	1-Mar-2008

$^{100}\text{Mo}(^{11}\text{B},4n\gamma)$ E=39 MeV,
Measured γ , $\gamma\gamma$, $\gamma(\theta)$.

 ^{107}Ag Levels

E(level)	J^π	E(level)	J^π	E(level)	J^π	E(level)	J^π
0.0 ^a	1/2 ⁻	2053.2 [‡] 21	17/2 ⁺	2891.4 [‡] 22	19/2 ⁺	3927.4 [@] 24	27/2 ⁻
93.1 21	7/2 ⁺	2065.1 ^a 20	(13/2 ⁻)	2922.5 ^{&} 22	(19/2 ⁻)	3977.5 [‡] 23	27/2 ⁺
125.5 [‡] 21	9/2 ⁺	2066.7 21		3003.7 ^{&} 22		4102 ^{&} 3	(25/2 ⁻)
324.8 ^a 10	3/2 ⁻	2171.4 23	15/2 ⁻	3033 3	23/2 ⁻	4356.6 [‡] 24	29/2 ⁺
423.3 ^a 15	5/2 ⁻	2176.4 21		3055.4 [@] 23	23/2 ⁻	4397.2 [@] 25	29/2 ⁻
773.0 [‡] 21	11/2 ⁺	2297.6 [@] 21	15/2 ⁻	3147.9 [‡] 22	21/2 ⁺	4752.4 [‡] 24	31/2 ⁺
973.3 ^a 18	7/2 ⁻	2370.5 21		3294.4 ^{&} 23	(21/2 ⁻)	4968 [#] 3	29/2 ⁺
990.9 [‡] 20	13/2 ⁺	2411.3 [@] 21	17/2 ⁻	3297.0 23	21/2 ⁺	5005.1 [@] 25	31/2 ⁻
1061.2 22		2462.6 ^{&} 20	(15/2 ⁻)	3460.3 [‡] 22	23/2 ⁺	5246.6 [‡] 25	33/2 ⁺
1146.3 ^a 18	9/2 ⁻	2542.3 [@] 22	19/2 ⁻	3465.7 [@] 24	25/2 ⁻	5258 [#] 3	31/2 ⁺
1467.1 21		2663.9 ^{&} 21	(17/2 ⁻)	3519 3	25/2 ⁻	5576 [#] 3	33/2 ⁺
1799.4 [‡] 21	15/2 ⁺	2732.9 24	21/2 ⁻	3674.7 ^{&} 25	(23/2 ⁻)		
1925.6 ^{&} 20	13/2 ⁻	2747.2 [@] 23	21/2 ⁻	3682.8 [‡] 23	25/2 ⁺		

[†] As given by 1997Es02 based on γ multiplicities and bands assignments.

[‡] Band(A): $\pi g_{9/2}$, Yrast.

[#] Band(B): $\Delta J=1$ Band based on 29/2⁺.

[@] Band(C): $\Delta J=1$ band based on (15/2⁻).

[&] Band(D): 3 quasi -particle band (1997Es02). J^π from cranked-shell model.

^a Band(E): $p_{1/2}$ hole Band on gs.

 $\gamma(^{107}\text{Ag})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
98.5	423.3	5/2 ⁻	324.8	3/2 ⁻	290.8	3294.4	(21/2 ⁻)	3003.7	
113.8	2411.3	17/2 ⁻	2297.6	15/2 ⁻	293.4	2663.9	(17/2 ⁻)	2370.5	
121.2	2297.6	15/2 ⁻	2176.4		294.9	3977.5	27/2 ⁺	3682.8	25/2 ⁺
131.0	2542.3	19/2 ⁻	2411.3	17/2 ⁻	300.5	3033	23/2 ⁻	2732.9	21/2 ⁻
163.5	3460.3	23/2 ⁺	3297.0	21/2 ⁺	307.9	3055.4	23/2 ⁻	2747.2	21/2 ⁻
171.7	2542.3	19/2 ⁻	2370.5		312.2	3460.3	23/2 ⁺	3147.9	21/2 ⁺
190.6	2732.9	21/2 ⁻	2542.3	19/2 ⁻	317.8	5576	33/2 ⁺	5258	31/2 ⁺
201.4	2663.9	(17/2 ⁻)	2462.6	(15/2 ⁻)	324.8	324.8	3/2 ⁻	0.0	1/2 ⁻
205.0	2747.2	21/2 ⁻	2542.3	19/2 ⁻	339.9	3003.7		2663.9	(17/2 ⁻)
217.9	990.9	13/2 ⁺	773.0	11/2 ⁺	366.3	2663.9	(17/2 ⁻)	2297.6	15/2 ⁻
222.4	3682.8	25/2 ⁺	3460.3	23/2 ⁺	371.8	3294.4	(21/2 ⁻)	2922.5	(19/2 ⁻)
231.0	2297.6	15/2 ⁻	2066.7		372.0	2171.4	15/2 ⁻	1799.4	15/2 ⁺
252.3	2663.9	(17/2 ⁻)	2411.3	17/2 ⁻	378.9	4356.6	29/2 ⁺	3977.5	27/2 ⁺
253.8	2053.2	17/2 ⁺	1799.4	15/2 ⁺	380.3	3674.7	(23/2 ⁻)	3294.4	(21/2 ⁻)
256.8	3147.9	21/2 ⁺	2891.4	19/2 ⁺	395.7	4752.4	31/2 ⁺	4356.6	29/2 ⁺
258.6	2922.5	(19/2 ⁻)	2663.9	(17/2 ⁻)	397.5	2462.6	(15/2 ⁻)	2065.1	(13/2 ⁻)
289.8	5258	31/2 ⁺	4968	29/2 ⁺	405.7	1467.1		1061.2	

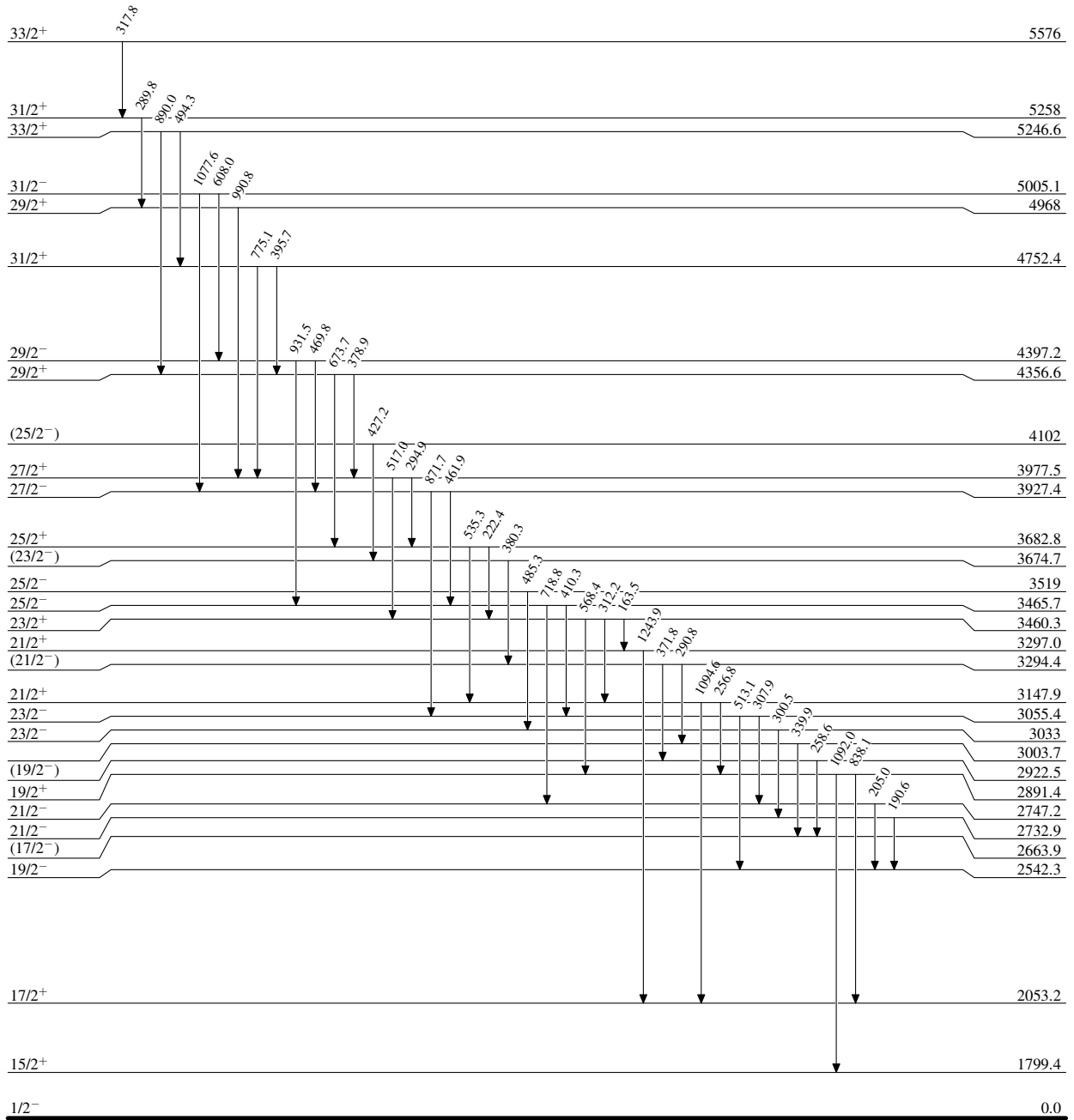
Continued on next page (footnotes at end of table)

$^{100}\text{Mo}(^{11}\text{B},4\text{n}\gamma)$ **1997Es02 (continued)** $\gamma(^{107}\text{Ag})$ (continued)

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
410.3	3465.7	25/2 ⁻	3055.4	23/2 ⁻	808.4	1799.4	15/2 ⁺	990.9	13/2 ⁺
427.2	4102	(25/2 ⁻)	3674.7	(23/2 ⁻)	838.1	2891.4	19/2 ⁺	2053.2	17/2 ⁺
444.9	2370.5		1925.6	13/2 ⁻	865.2	990.9	13/2 ⁺	125.5	9/2 ⁺
458.6	1925.6	13/2 ⁻	1467.1		871.7	3927.4	27/2 ⁻	3055.4	23/2 ⁻
461.9	3927.4	27/2 ⁻	3465.7	25/2 ⁻	890.0	5246.6	33/2 ⁺	4356.6	29/2 ⁺
469.8	4397.2	29/2 ⁻	3927.4	27/2 ⁻	918.8	2065.1	(13/2 ⁻)	1146.3	9/2 ⁻
476.2	1467.1		990.9	13/2 ⁺	931.5	4397.2	29/2 ⁻	3465.7	25/2 ⁻
485.3	3519	25/2 ⁻	3033	23/2 ⁻	934.7	1925.6	13/2 ⁻	990.9	13/2 ⁺
494.3	5246.6	33/2 ⁺	4752.4	31/2 ⁺	968.0	1061.2		93.1	7/2 ⁺
498.1	2297.6	15/2 ⁻	1799.4	15/2 ⁺	990.8	4968	29/2 ⁺	3977.5	27/2 ⁺
513.1	3055.4	23/2 ⁻	2542.3	19/2 ⁻	1026.2	1799.4	15/2 ⁺	773.0	11/2 ⁺
517.0	3977.5	27/2 ⁺	3460.3	23/2 ⁺	1062.3	2053.2	17/2 ⁺	990.9	13/2 ⁺
535.3	3682.8	25/2 ⁺	3147.9	21/2 ⁺	1075.5	2066.7		990.9	13/2 ⁺
537.1	2462.6	(15/2 ⁻)	1925.6	13/2 ⁻	1077.6	5005.1	31/2 ⁻	3927.4	27/2 ⁻
550.0	973.3	7/2 ⁻	423.3	5/2 ⁻	1092.0	2891.4	19/2 ⁺	1799.4	15/2 ⁺
568.4	3460.3	23/2 ⁺	2891.4	19/2 ⁺	1094.6	3147.9	21/2 ⁺	2053.2	17/2 ⁺
608.0	5005.1	31/2 ⁻	4397.2	29/2 ⁻	1152.6	1925.6	13/2 ⁻	773.0	11/2 ⁺
611.7	2411.3	17/2 ⁻	1799.4	15/2 ⁺	1185.5	2176.4		990.9	13/2 ⁺
647.5	773.0	11/2 ⁺	125.5	9/2 ⁺	1243.9	3297.0	21/2 ⁺	2053.2	17/2 ⁺
673.7	4356.6	29/2 ⁺	3682.8	25/2 ⁺	1294.0	2066.7		773.0	11/2 ⁺
680.0	773.0	11/2 ⁺	93.1	7/2 ⁺	1306.7	2297.6	15/2 ⁻	990.9	13/2 ⁺
718.8	3465.7	25/2 ⁻	2747.2	21/2 ⁻	1341.7	1467.1		125.5	9/2 ⁺
723.0	1146.3	9/2 ⁻	423.3	5/2 ⁻	1374.2	1467.1		93.1	7/2 ⁺
775.1	4752.4	31/2 ⁺	3977.5	27/2 ⁺	1403.4	2176.4		773.0	11/2 ⁺
779.3	1925.6	13/2 ⁻	1146.3	9/2 ⁻					

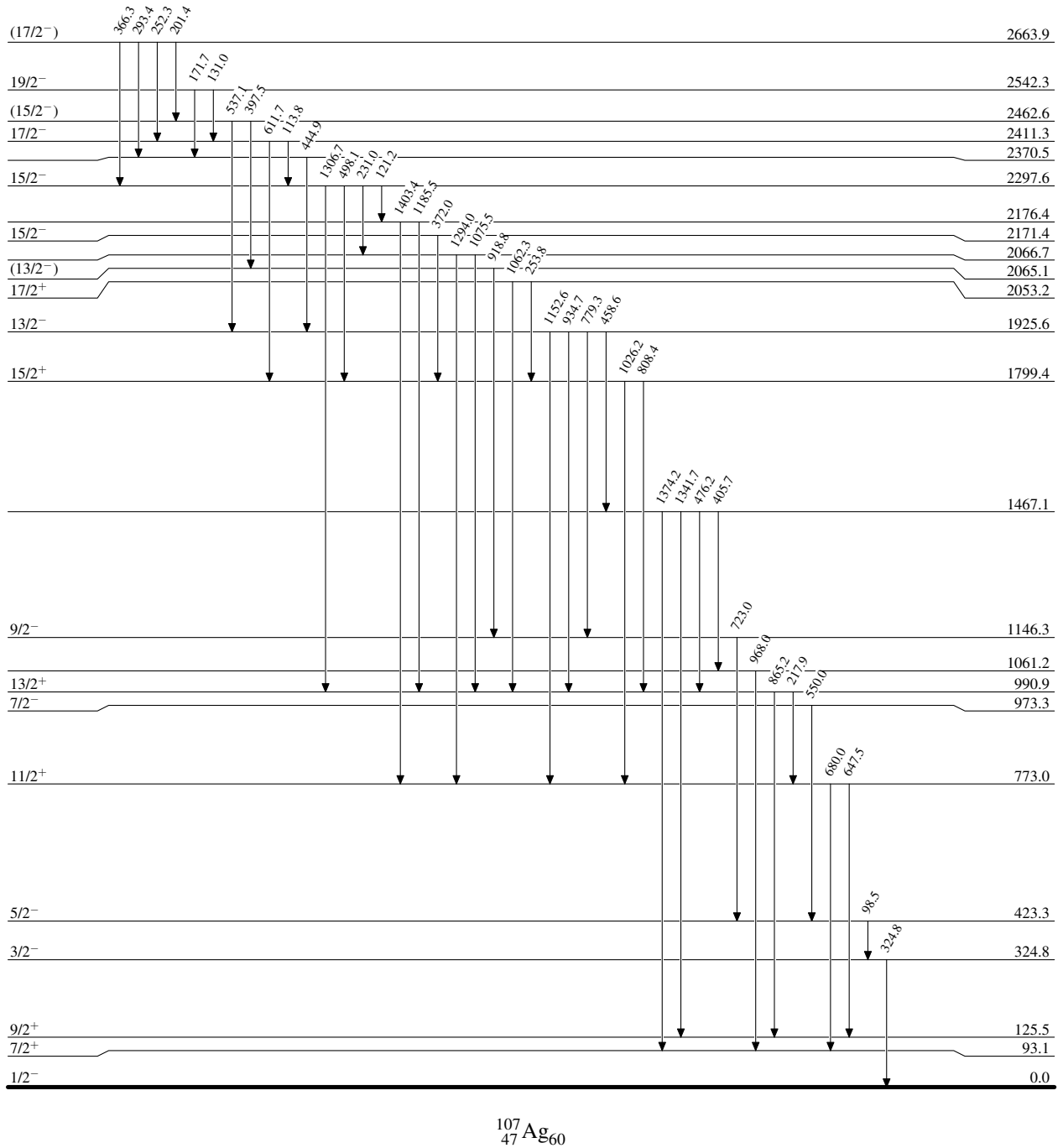
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Level Scheme



$^{100}\text{Mo}(^{11}\text{B},4n\gamma)$ 1997Es02

Level Scheme (continued)



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