^{115}In(p,nγ) 1988Vi06

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 2391 (2012)	1-Sep-2012

E(p)=6.8 MeV.
Measured γγ, γce coin, γγ(t), γ(θ), γ(t) pulsed beam.

^{115}Sn Levels

E(level)	Jπ†	$T_{1/2}$	E(level)	Jπ†	E(level)	E(level)
0.0	1/2+	stable	1825.5	3/2+	2196.1	2553.5
497.3	3/2+		1857.6		2207.5	2653.6
613.0	7/2+		1945.6		2229.9	2685.2
713.7			1973.8		2313.8	2759.7
986.5	5/2+		2025.1	15/2−	2347.1	2800.0?
1279.9	3/2+		2060.0		2352.0	2807.4
1416.7	5/2+		2076.9		2364.8	2842.6
1633.2	3/2+		2084.2		2440.3	2975.3
1643.4	7/2+		2155.8		2447.4	3206.1
1733.8	5/2+		2164.7		2464.3	3841.9
1785.8			2192.8		2486.6	

† As given by authors based on γ(θ).

γ(^{115}Sn)

Eγ	Iγ	Ei(level)	Jiπ	Ef	Jfπ	Eγ	Iγ	Ei(level)	Jiπ	Ef	Jfπ
100.6 *1*	4.8 *4*	713.7		613.0	7/2+	814.1 *4*	0.18 *3*	2447.4		1633.2	3/2+
115.4 *1*	31 *2*	613.0	7/2+	497.3	3/2+	817.5 *2*	0.25 *5*	2842.6		2025.1	15/2−
189.1 *4*	0.4 *1*	2553.5		2364.8		x838.8 *4*	0.31 *4*				
232.5 *7*	0.10 *5*	2440.3		2207.5		861.8 *3*	0.24 *4*	2807.4		1945.6	
306.6 *9*	0.12 *3*	2164.7		1857.6		867.7 *2*	0.49 *6*	2653.6		1785.8	
353.2 *6*	0.08 *5*	1633.2	3/2+	1279.9	3/2+	896.7 *6*	0.05 *2*	2313.8		1416.7	5/2+
369.5 *7*	0.11 *3*	1785.8		1416.7	5/2+	919.4 *1*	0.68 *9*	1416.7	5/2+	497.3	3/2+
373.8 *1*	0.55 *8*	986.5	5/2+	613.0	7/2+	929.7 *1*	3.5 *4*	1643.4	7/2+	713.7	
401.5 *3*	0.25 *3*	2347.1		1945.6		948.6 *4*	0.28 *4*	2364.8		1416.7	5/2+
454.2 *5*	0.17 *3*	1733.8	5/2+	1279.9	3/2+	986.5 *1*	2.7 *2*	986.5	5/2+	0.0	1/2+
489.3 *3*	7.7 *7*	986.5	5/2+	497.3	3/2+	1020.2 *6*	0.23 *4*	1633.2	3/2+	613.0	7/2+
497.3 *1*	100 *3*	497.3	3/2+	0.0	1/2+	1030.7 *4*	0.18 *1*	2447.4		1416.7	5/2+
521.3 *2*	0.25 *3*	2164.7		1643.4	7/2+	1072.1 *1*	5.1 *4*	1785.8		713.7	
561.5 *1*	0.90 *1*	2347.1		1785.8		1097.6 *1*	1.1 *1*	2084.2		986.5	5/2+
574.5 *7*	0.14 *3*	2207.5		1633.2	3/2+	1120.8 *7*	0.55 *4*	1733.8	5/2+	613.0	7/2+
618.4 *5*	0.22 *4*	2352.0		1733.8	5/2+	1135.9 *5*	0.23 *4*	1633.2	3/2+	497.3	3/2+
643.9† *2*	0.10 *2*	2800.0?		2155.8		1169.3 *2*	0.39 *4*	2155.8		986.5	5/2+
656.9 *1*	0.89 *8*	1643.4	7/2+	986.5	5/2+	1178.4 *4*	0.18 *6*	2164.7		986.5	5/2+
660.3 *5*	0.18 *3*	2685.2		2025.1	15/2−	1199.5 *5*	0.24 *5*	2842.6		1643.4	7/2+
x693.9 *3*	0.86 *8*					1206.5 *6*	0.20 *6*	2192.8		986.5	5/2+
703.7 *1*	1.7 *2*	2347.1		1643.4	7/2+	1209.5 *6*	0.36 *6*	2196.1		986.5	5/2+
734.6 *5*	0.11 *2*	2759.7		2025.1	15/2−	1212.3 *5*	0.21 *5*	1825.5	3/2+	613.0	7/2+
739.6 *3*	0.25 *5*	2685.2		1945.6		1220.8 *1*	0.92 *9*	2207.5		986.5	5/2+
747.3 *2*	0.41 *5*	1733.8	5/2+	986.5	5/2+	1231.9 *1*	7.3 *7*	1945.6		713.7	
780.0 *4*	0.24 *4*	2196.1		1416.7	5/2+	1236.5 *5*	1.2 *3*	1733.8	5/2+	497.3	3/2+
790.9 *4*	0.13 *4*	2207.5		1416.7	5/2+	1244.5 *1*	0.62 *6*	1857.6		613.0	7/2+
803.7 *5*	0.12 *3*	2084.2		1279.9	3/2+	1279.9 *1*	2.1 *2*	1279.9	3/2+	0.0	1/2+
810.6 *5*	0.10 *3*	2975.3		2164.7		1311.4 *1*	3.4 *3*	2025.1	15/2−	713.7	

Continued on next page (footnotes at end of table)

^{115}In(p,nγ) 1988Vi06 (continued)

γ(^{115}Sn) (continued)

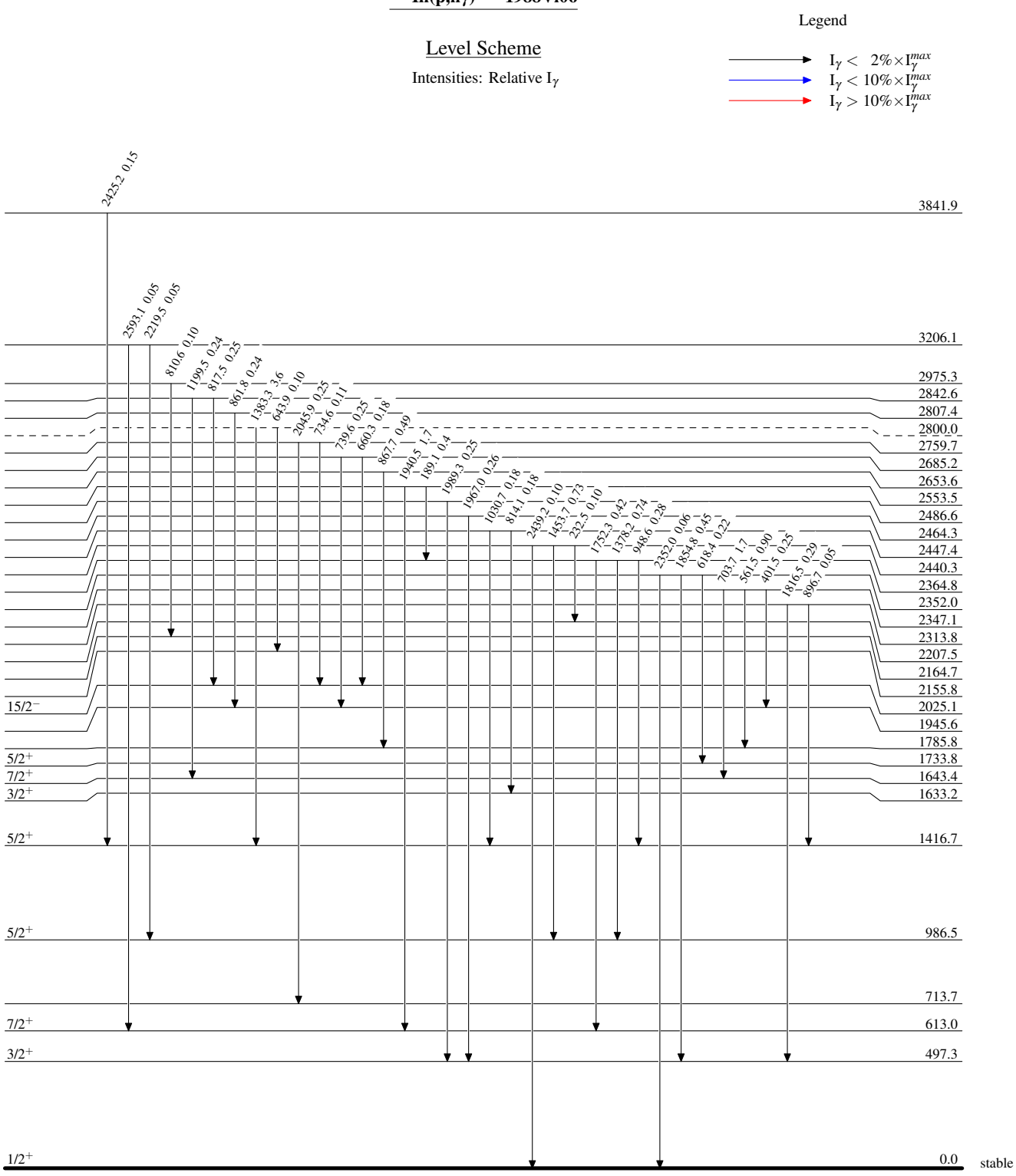
E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π
1328.0 *3*	0.34 *6*	1825.5	3/2$^+$	497.3	3/2$^+$	1733.8[#] *3*	0.11[#] *4*	1733.8	5/2$^+$	0.0	1/2$^+$
1360.3 *1*	2.9 *2*	1857.6		497.3	3/2$^+$	1733.8[#] *3*	0.11[#] *4*	2229.9		497.3	3/2$^+$
1378.2 *3*	0.74 *6*	2364.8		986.5	5/2$^+$	1752.3 *3*	0.42 *5*	2364.8		613.0	7/2$^+$
1383.3[‡] *1*	3.6 *3*	2800.0?		1416.7	5/2$^+$	1816.5 *2*	0.29 *5*	2313.8		497.3	3/2$^+$
1416.7 *1*	3.1 *2*	1416.7	5/2$^+$	0.0	1/2$^+$	1825.3 *1*	0.76 *9*	1825.5	3/2$^+$	0.0	1/2$^+$
1453.7 *1*	0.73 *7*	2440.3		986.5	5/2$^+$	1854.8 *2*	0.45 *8*	2352.0		497.3	3/2$^+$
1471.4 *7*	0.72 *7*	2084.2		613.0	7/2$^+$	1940.5 *4*	1.7 *2*	2553.5		613.0	7/2$^+$
1476.5 *1*	0.67 *6*	1973.8		497.3	3/2$^+$	1967.0 *9*	0.26 *5*	2464.3		497.3	3/2$^+$
1542.8 *2*	0.58 *2*	2155.8		613.0	7/2$^+$	1973.8 *6*	0.14 *5*	1973.8		0.0	1/2$^+$
1562.6 *1*	1.0 *1*	2060.0		497.3	3/2$^+$	1989.3 *2*	0.25 *6*	2486.6		497.3	3/2$^+$
1579.6 *1*	1.1 *1*	2076.9		497.3	3/2$^+$	2045.9 *3*	0.25 *6*	2759.7		713.7	
1587.3 *3*	0.55 *4*	2084.2		497.3	3/2$^+$	2060.1 *4*	0.23 *7*	2060.0		0.0	1/2$^+$
1594.3 *1*	1.1 *1*	2207.5		613.0	7/2$^+$	[x]2120.7 *5*	0.06 *4*				
1633.2 *1*	2.7 *2*	1633.2	3/2$^+$	0.0	1/2$^+$	2219.5 *5*	0.05 *3*	3206.1		986.5	5/2$^+$
1658.3 *1*	0.71 *7*	2155.8		497.3	3/2$^+$	2352.0 *6*	0.06 *4*	2352.0		0.0	1/2$^+$
1666.8 *5*	0.82 *5*	2164.7		497.3	3/2$^+$	2425.2 *4*	0.15 *4*	3841.9		1416.7	5/2$^+$
1695.5 *3*	0.46 *6*	2192.8		497.3	3/2$^+$	2439.2 *4*	0.10 *3*	2440.3		0.0	1/2$^+$
[x]1731.0 *3*	0.11 *5*					2593.1 *6*	0.05 *3*	3206.1		613.0	7/2$^+$

[†] Placed from a 4029 level by 1991Vi10 (same author) in (α,2nγ).
[‡] Placed from a 1996 level by 1991Vi10 (same author) in (α,2nγ).
[#] Multiply placed with undivided intensity.
[x] γ ray not placed in level scheme.

^{115}In(p,nγ) 1988Vi06

Level Scheme

Intensities: Relative I_γ



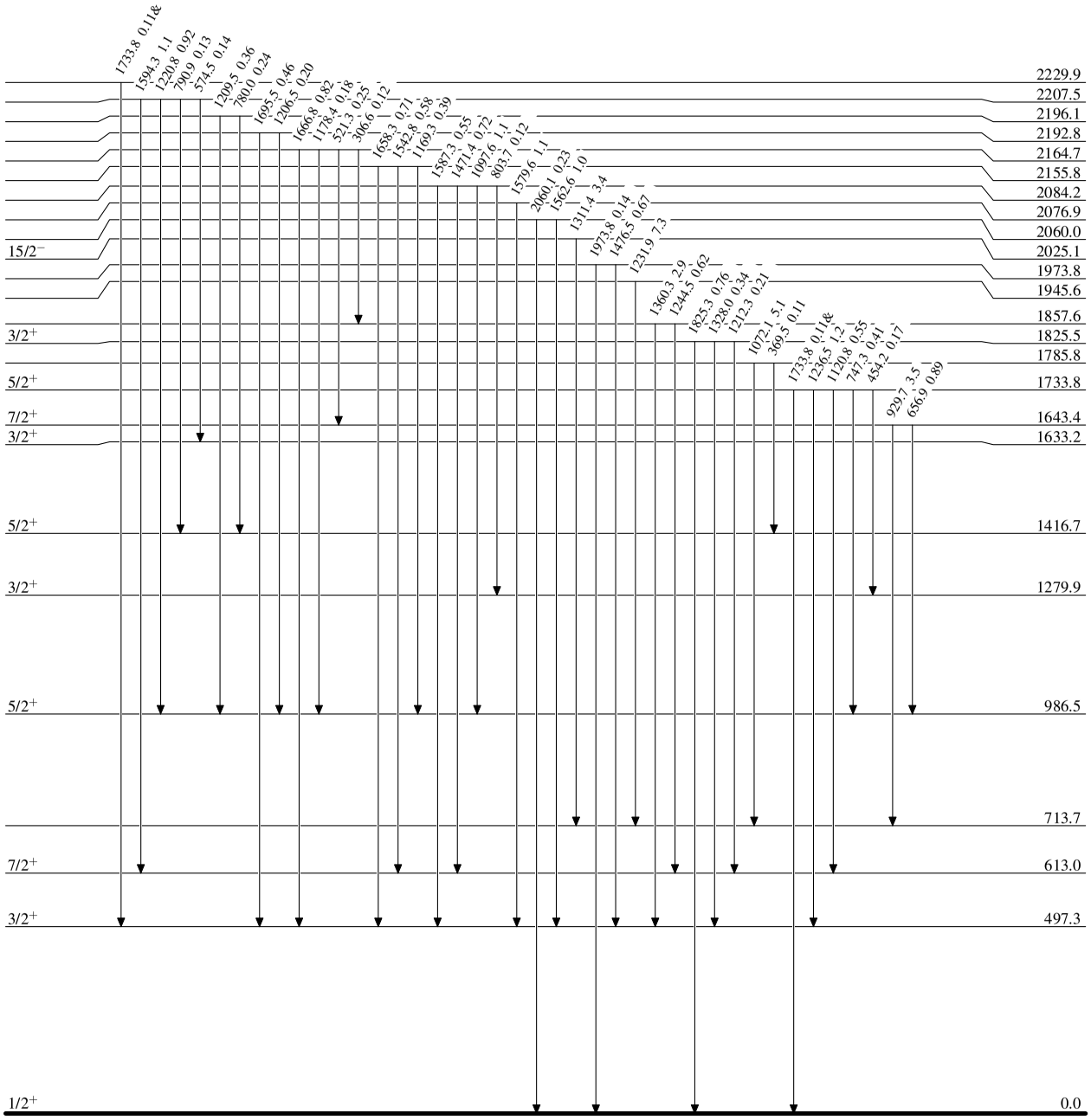
$^{115}_{50}Sn_{65}$

^{115}In(p,nγ) 1988Vi06

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



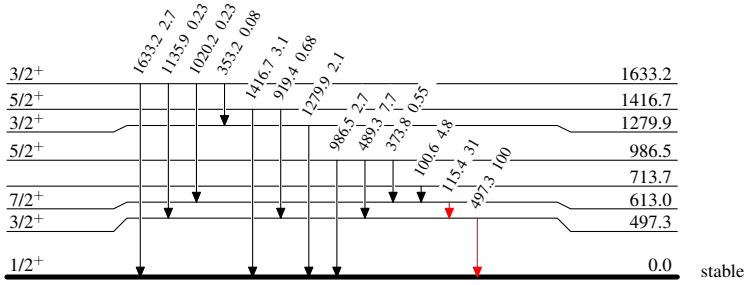
$^{115}_{50}Sn_{65}$

^{115}In(p,nγ) 1988Vi06

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



$^{115}_{50}Sn_{65}$