¹²⁷**I**(\mathbf{n},γ) **E=thermal:primary** 1990Is03

History						
Туре	Author	Citation	Literature Cutoff Date			
Full Evaluation	Zoltan Elekes and Janos Timar	NDS 129, 191 (2015)	28-Feb-2015			

¹²⁸I Levels

1990Is03: pair-spectrometer; $E\gamma$, $I\gamma$.

Others: 1971Sc07, 1968Gr32, 1966Ar09, 1959Kn63, 2007ChZX. $J^{\pi}(target)=5/2^+$.

E(level) [†]	J^{π}	E(level) [†]	J^{π}	E(level) [†]	J^{π}
0.0	1+	863.90? [‡] 13		1455.39 13	(≤3)
27.32 11	2+	867.20 [‡] 13		1486.87 9	
85.54 10	3+	881.01 [‡] <i>10</i>		1507.01 16	
128.28 10	$(4)^{+}$	885.2? [‡] 3		1527.83 9	$(2^{-},3,4^{-})$
133.65 9	2-	916.75 <i>11</i>	(≤4)	1532.80 17	2+,3,4-
137.96 10	4-	934.14 9	$(2^{-},3,4)$	1538.16 10	
144.03 9	$(3)^{-}$	938.84?+ 18		1574.9 4	
151.48 13	$(3)^{+}$	944.7813		1580.06 11	
160.// 10	$1^{+},2^{+}$	9/3.6/? + 24		1598.46 13	
180.40 9	$(3)^{+}$	$983.9?^{+}3$		1615.99 9	(1.0.0)
220.6 4	$(1,2,3)^{+}$	985.92 ⁺ 17		1628.12 9	(1,2,3)
232.2 4	4^{-1}	1006.68^{+} 1/		1651.08 25	
295.58 17	$(2,3,4)^+$ $(2,3,4)^+$	1016.00* 19	$(2^+ 3 4^-)$	1691./1 10	$(3^{-} 4 5^{-})$
346 22 [‡] 8	(2,3,1)	1048 65 10	(2, 3, 1) $(1, 2, 3^+)$	1715 78 15	(3,1,5)
372.36 11		1062.20 19	(1,2,5)	1729.73 9	
376.73 9	(4) ⁻	1084.59 9	(≤4)	1734.10 9	(2,3,4)
385.30 11	$2^+, 3^+$	1091.92 [‡] <i>12</i>		1739.73 11	
391.97 11	$(1,2,3)^+$	1100.12 9		1745.52 <i>13</i>	
415.98 18	$(2,3)^+$	1135.82 [‡] 14		1761.11 11	
426.9 3	$(2 3)^{-}$	1149.14 15	(<3)	1772.8 4	
485.33 19	(2,3) (<4)	1169.02 10	(≤ 3)	1793.32 14	
518.50 9	(3,4)-	1178.60 10		1807.44 9	
536.39? [‡] 12		1197.51 <i>16</i>		1818.19 20	
549.71 <i>21</i>	$(3^+, 4^+)$	1219.0 3	$2^+,3,4^+$	1825.65 9	
554.44 9	$(2^{-},3,4^{-})$ $(3,4)^{-}$	1246.90 9	$2^{+},3,4^{-}$	1844.00 15	
613.97 11	(3,4)	1256.0 3	(2,,5,4)	1805.5 4	
656.4 4		1266.40 9	$(2^{-},3^{+})$	1905.5 4	
661.40 [‡] <i>11</i>		1275.50 11	(≤4)	1918.6 <i>3</i>	
676.73 [‡] 13		1301.78 <i>13</i>	$(2^+, 3, 4^-)$	1922.5 4	(≤4)
687.03 12	(3,4) ⁻	1303.79 15		1933.11 <i>11</i>	
704.90 [‡] <i>19</i>		1330.20 10	(≤4)	1943.1 <i>3</i>	
750.01 16	(≤4)	1336.21 13		1947.04 9	
770.7?+ 4		1343.21 9	(3 ⁻ ,4,5)	1971.85 21	
787.99+ 19		1348.95 20	(9 ⁻)	1983.9 3	(≤3)
791.9? + 5 795.62 <i>21</i>		1362.61 9 1382.94 <i>11</i>		1987.7 <i>3</i> 2013.0 <i>5</i>	
821.44? [‡] 11		1391.90 11		2037.64 13	
828.34 10	$(1 - 2, 2^{+})$	1418.55 13		2050.89 15	(1 ⁺)
843.52.12	$(1, 2, 3^{\circ})$	1429.97 10	(1^{+})	2067.21 10	
849 34 [‡] 10	(<4)	1441 61 77	(1)	2082 37 13	
017.51 10	()	1111.01 11	Continu	hed on next pa	ge (footnotes at end of table)

¹²⁷**I**(**n**,γ) **E=thermal:primary** 1990Is03 (continued)

¹²⁸I Levels (continued)

Comments

E(level) [†]	\mathbf{J}^{π}	
2115.52 10		
2130.45 24		
2143.76 20	1,2,3	
2150.49 20		
2162.01 17		
2166.62 13		
2187.69 12		
2191.35 <i>13</i>		
2204.71 13	(≤4)	
2206.70? 13		
2320.65 10	(≤4)	
(6826.20 9)	$2^+, 3^+$	J^{π} : L=0 capture on 5/2 ⁺ target.

[†] Deduced from E γ and Sn(=6826.13 5), and with the recoil correction by evaluator. [‡] No de-exciting γ 's are observed in data of (n, γ) secondary.

$\gamma(^{128}{\rm I})$

E_{γ}^{\dagger}	$I_{\gamma}^{\ddagger \#}$	$E_i(level)$	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}
^x 4501.49.16	43.3				
4505.46 4	133 7	(6826.20)	$2^+.3^+$	2320.65	(<4)
x4509.00 8	73 4	()	<i>,</i> -		(_)
^x 4511.57 9	59 4				
^x 4516.57 4	132 6				
^x 4523.60 6	81 4				
^x 4526.48 19	24 <i>3</i>				
x4530.28 6	84 5				
^x 4534.7 3	17 2				
^x 4538.75 11	47 <i>3</i>				
^x 4542.92 5	112 5				
^x 4545.69 6	103 5				
^x 4548.66 12	42 <i>3</i>				
^x 4553.27 24	25 4				
^x 4557.94 22	25 <i>3</i>				
^x 4563.1 3	22 <i>3</i>				
^x 4570.8 6	42 10				
^x 4571.7 6	55 11				
^x 4578.8 7	14 5				
^x 4584.59 12	83 6				
^x 4587.8 3	50 5				
^x 4591.05 20	47 5				
^x 4594.68 25	39 4				
^x 4600.31 <i>6</i>	96 5				
^x 4603.05 4	127 6				
^x 4612.49 <i>10</i>	47 <i>3</i>				
^x 4615.98 <i>18</i>	30 <i>3</i>				
4619.41 [@] 9	74 5	(6826.20)	$2^+, 3^+$	2206.70?	
4621.40 10	60 4	(6826.20)	$2^+, 3^+$	2204.71	(≤4)
^x 4625.39 6	98 6				
4634.76 10	53 4	(6826.20)	$2^+, 3^+$	2191.35	
4638.42 8	67 4	(6826.20)	$2^+, 3^+$	2187.69	
^x 4641.73 7	78 4				

Continued on next page (footnotes at end of table)

¹²⁷I(n,γ) E=thermal:primary **1990Is03** (continued)

$\gamma(^{128}I)$ (continued)

Eγ [†]	$I_{\gamma}^{\ddagger \#}$	E_i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_f^{π}
^x 4646.8 6	10 2				
^x 4651.04 8	90 7				
^x 4656.7 3	11 2				
4659.48 10	92 5	(6826.20)	$2^+, 3^+$	2166.62	
4664.09 14	46 4	(6826.20)	$2^+, 3^+$	2162.01	
^x 4666.54 11	68 5				
x4670.29 8	103 6				
4675.61 18	38 5	(6826.20)	$2^+, 3^+$	2150.49	
4682.34 18	30 4	(6826.20)	$2^+, 3^+$	2143.76	1,2,3
^x 4685.59 22	21 5				
^x 4691.10 7	82 5				
4695.65 22	20 5	(6826.20)	$2^+, 3^+$	2130.45	
^x 4697.7 6	82				
^x 4702.9 3	22 2				
^x 4707.10 25	19 <i>3</i>				
4710.58 4	147 7	(6826.20)	$2^+, 3^+$	2115.52	
^x 4713.5 3	21 3				
^x 4718.4 4	11 2				
x4728.67 6	59 <i>4</i>				
^x 4732.88 21	23 3				
^x 4734.68 <i>19</i>	30 <i>3</i>				
^x 4741.42 8	65 4				
4743.73 9	50 3	(6826.20)	2+,3+	2082.37	
^x 4748.79 4	82 4				
*4752.80 20	26.2	(())			
4756.12.4	102.5	(6826.20)	2+,3+	2069.98	
4758.89 4	120 6	(6826.20)	21,31	2067.21	
×4/63.54 <i>14</i>	23 Z				
~4//0.85 0	114	((92(20)	$2^{+}2^{+}$	2050.90	(1+)
4//5.21 12	30 Z 106 7	(0820.20)	2.,3	2050.89	(1°)
4785.20 9	72 5	(6826.20)	2+ 2+	2037 64	
x4796 02 12	61.5	(0820.20)	2,5	2037.04	
x4805 38 3	156 7				
4813 1 5	5 2	(6826 20)	2+ 3+	2013.0	
^x 4816.26.8	53 4	(0020.20)	2,5	2010.0	
x4828.7.3	49 9				
4838.40 25	68.9	(6826.20)	$2^+.3^+$	1987.7	
4842.16 25	38.9	(6826.20)	$2^{+}.3^{+}$	1983.9	(<3)
^x 4844.8 3	32 6		,		(_)
^x 4851.77 5	106 5				
4854.25 19	28 <i>3</i>	(6826.20)	$2^+, 3^+$	1971.85	
^x 4858.4 5	10 2				
x4864.27 12	41 3				
^x 4869.7 5	20 2				
^x 4872.89 6	90 5				
4879.06 <i>3</i>	164 7	(6826.20)	$2^+, 3^+$	1947.04	
4882.98 25	20 2	(6826.20)	$2^+, 3^+$	1943.1	
4892.98 7	190 10	(6826.20)	2+,3+	1933.11	
*4894.84 25	23 3		a	10.0	,
4903.6 4	22 3	(6826.20)	2+,3+	1922.5	(≤4)
4907.5 3	53 5	(6826.20)	2+,3+	1918.6	
^4913.6 3	53.6	((00) 00)	0+ 0+	1005 5	
4920.6 4	36 4	(6826.20)	21,37	1905.5	
~4927.7.5	81 4				
~4937.2.0	250 12				

Continued on next page (footnotes at end of table)

¹²⁷I(n,γ) E=thermal:primary **1990Is03** (continued)

$\gamma(^{128}I)$ (continued)

${\rm E}_{\gamma}^{\dagger}$	$I_{\gamma}^{\ddagger \#}$	E _i (level)	\mathbf{J}_i^{π}	E_f	J_f^π
4950 10 12	451 79	(6826, 20)	$2^{+} 3^{+}$	1875 99	
x4954 7 3	106.6	(0020.20)	2,5	10/5.77	
4962.6.4	13 2	(6826 20)	2+ 3+	1863 5	
4982.09.12	48 4	(6826.20)	$2^{+},3^{+}$	1844.00	
x4984.16 16	29.2	(0020.20)	2,5	1011.00	
x4996 59 13	30 3				
5000.44 2	249 10	(6826.20)	$2^{+}.3^{+}$	1825.65	
5007.90 18	91	(6826.20)	$2^{+}.3^{+}$	1818.19	
^x 5015.29 4	158 7	()	<i>,</i> -		
5018.65 3	253 11	(6826.20)	$2^+.3^+$	1807.44	
^x 5029.73 5	100 5		,		
5032.77 11	42 3	(6826.20)	$2^+, 3^+$	1793.32	
5043.07 4	131 6	(6826.20)	$2^{+}, 3^{+}$	1783.02	
^x 5045.97 13	43 <i>3</i>				
5053.3 4	12 2	(6826.20)	$2^+, 3^+$	1772.8	
5064.98 7	62 <i>3</i>	(6826.20)	$2^+, 3^+$	1761.11	
x5069.19 25	18 2				
5080.57 10	13 <i>I</i>	(6826.20)	$2^+, 3^+$	1745.52	
5086.36 6	38 <i>3</i>	(6826.20)	2+,3+	1739.73	
5091.99 2	389 16	(6826.20)	$2^+, 3^+$	1734.10	(2,3,4)
5096.36 <i>3</i>	267 11	(6826.20)	$2^+, 3^+$	1729.73	
5110.31 12	89 5	(6826.20)	$2^+, 3^+$	1715.78	
^x 5118.92 8	57 <i>3</i>				
5123.89 18	19 <i>3</i>	(6826.20)	2+,3+	1702.20	(3-,4,5-)
x5128.36 26	18 4				
5134.38 13	38 2	(6826.20)	2+,3+	1691.71	
*5137.42 5	83 4				
x5141.90 20	10 1				
*5151.28 8	58 3				
*5155.91 7	45 3	((00(00)	2+ 2+	1651.00	
5175.00 23	14 2	(6826.20)	2+,3+	1651.08	
*5181.03 8	4/3	((00(00)	2+ 2+	1(00.10	(1, 2, 2)
5197.96 Z	826 34	(6826.20)	2',3'	1628.12	(1,2,3)
~5204.65 8	00 3	(6926.20)	2+ 2+	1615.00	
5210.09 Z	2219	(0820.20)	2, 3,	1015.99	
5221.65 15	20 5	(6926 20)	$2^{+}2^{+}$	1500 16	
x5221.02.10	40 5	(0820.20)	2,3	1398.40	
5246 02 7	52 3	(6826.20)	2+ 2+	1580.06	
5251 2 1	12.2	(6826.20)	$2^{+},3^{+}$	1574.0	
x5256 27 18	12 2 17 2	(0820.20)	2,5	1374.9	
x5269 16 8	66 3				
x5272.09.3	229 10				
x5281 53 7	42.2				
5287 92 4	110 5	(6826-20)	$2^{+} 3^{+}$	1538 16	
5293 28 14	21.8	(6826.20)	$2^{+},3^{+}$	1532.80	$2^+ 3 4^-$
5298.25 2	444 18	(6826.20)	$2^{+}.3^{+}$	1527.83	$(2^{-},3,4^{-})$
x5310.38 8	8 2	(0020020)	_ ,=		(_ ,= ,= , -)
5319.07 13	29 2	(6826.20)	$2^+.3^+$	1507.01	
^x 5321.81 <i>11</i>	39 <i>3</i>	. ,	,		
x5333.83 15	23 2				
5339.21 <i>3</i>	185 8	(6826.20)	$2^+, 3^+$	1486.87	
^x 5353.79 23	23 2	. /			
^x 5359.95 6	69 4				
^x 5363.5 <i>3</i>	10 2				
5370.68 10	44 <i>3</i>	(6826.20)	$2^+, 3^+$	1455.39	(≤3)

¹²⁷ I (\mathbf{n},γ) E=thermal:primary	1990Is03 (continued)
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					$\gamma(^{128}I)$ (continued)
E_{γ}^{\dagger}	$I_{\gamma}^{\ddagger \#}$	E_i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_f^{π}
^x 5373.28 11	39.3				
x5379.3.3	13 2				
5384.46.6	122.6	(6826.20)	$2^{+}.3^{+}$	1441.61	
5386.99.9	56.3	(6826.20)	$2^{+},3^{+}$	1439.08	(1^+)
5396.10 13	30 2	(6826.20)	$2^{+}.3^{+}$	1429.97	(-)
5407.52 10	54 5	(6826.20)	$2^{+}.3^{+}$	1418.55	
x5409.88 10	57 5		,		
^x 5418.11 7	49 <i>3</i>				
^x 5425.76 9	37 2				
5434.17 7	46 3	(6826.20)	$2^+, 3^+$	1391.90	
5443.13 6	66 <i>3</i>	(6826.20)	$2^+, 3^+$	1382.94	
^x 5448.40 7	54 <i>3</i>				
^x 5453.69 12	33 2				
x5459.49 12	34 2	(())	a + a+		
5463.46 2	430 18	(6826.20)	$2^+,3^+$	1362.61	
5477.12 18	15 1	(6826.20)	$2^+, 3^+$	1348.95	(9)
5482.86 2	411 1/	(6826.20)	$2^+, 3^+$	1343.21	(3,4,5)
5489.80 10	40 2	(6826.20)	$2^{+}, 3^{+}$ $2^{+}, 3^{+}$	1330.21	(<1)
5577 78 17	67.5	(0820.20) (6826.20)	2,3 2+3+	1303.20	(54)
5524 20 0	124 7	(6826.20)	$2^{+},3^{+}$	1303.79	$(2^+ 3 4^-)$
5550 57 6	61 3	(6826.20)	$2^{+},3^{+}$	1275 50	(2, 3, 4)
5559 67 2	901 37	(6826.20)	$2^{+},3^{+}$	1266 40	$(2^{-}3^{+})$
5570.1 3	10 7	(6826.20)	$2^{+},3^{+}$	1256.0	(2,5)
5574.51 2	485 20	(6826.20)	$2^{+},3^{+}$	1251.56	$(2^{-},3,4^{-})$
5579.17 2	256 11	(6826.20)	2+,3+	1246.90	2+,3,4-
^x 5598.61 11	33 2				
x5601.24 8	64 <i>3</i>				
5607.1 3	13 <i>I</i>	(6826.20)	$2^+, 3^+$	1219.0	2+,3,4+
5628.55 13	23 2	(6826.20)	$2^+, 3^+$	1197.51	
5647.46 5	70 3	(6826.20)	$2^+, 3^+$	11/8.60	
5657.04 4	84 4	(6826.20)	$2^+, 3^+$	1169.02	(-2)
5676 02 12	22 1	(6826.20)	$2^{+}, 3^{+}$ $2^{+}, 2^{+}$	1105.41	(≤3)
5690 24 11	$\frac{271}{261}$	(0820.20) (6826.20)	2,3 2+3+	1149.14	
x5695 3 3	12 I	(0820.20)	2,5	1155.62	
5725 94 2	474 19	(6826-20)	$2^{+}3^{+}$	1100.12	
5734.14 8	41.3	(6826.20)	$2^{+},3^{+}$	1091.92	
5741.47 2	222 9	(6826.20)	$2^{+},3^{+}$	1084.59	(≤4)
x5757.28 21	12 <i>I</i>	· · · · · ·			
5763.86 17	17 <i>1</i>	(6826.20)	$2^+, 3^+$	1062.20	
5777.41 5	66 <i>3</i>	(6826.20)	$2^+, 3^+$	1048.65	$(1,2,3^+)$
5793.98 <i>3</i>	166 7	(6826.20)	$2^+, 3^+$	1032.07	$(2^+,3,4^-)$
5810.05 17	11 <i>1</i>	(6826.20)	$2^+, 3^+$	1016.00	
5819.37 14	22 2	(6826.20)	$2^+, 3^+$	1006.68	
5840.13 14	54 4	(6826.20)	2+,3+	985.92	
5842.2 ^w 3	16 2	(6826.20)	$2^+, 3^+$	983.9?	
5852.38 ^(a) 22	14 1	(6826.20)	$2^+, 3^+$	973.67?	
5881.279	33 2	(6826.20)	2,3	944.78	
5887.21° 16	18 1	(6826.20)	$2^+, 3^+$	938.84?	(2-2,4)
3891.91 3 5000 20 6	100 /	(6826.20)	$2^{+},5^{+}$ $2^{+},2^{+}$	954.14	(2, 5, 4)
JYUY.3U 0	202	(0820.20)	$2^{+}, 3^{+}$	910./3	(>4)
5940.8 5	82	(6826.20)	$2^{+},3^{+}$	885.2?	
5058 85 10	14 4	(0826.20)	$2^+, 3^+$ $2^+, 2^+$	001.01 867.20	
5750.05 10	55 4	(0020.20)	2,5	007.20	

Continued on next page (footnotes at end of table)

¹²⁷I(n,γ) E=thermal:primary **1990Is03** (continued)

$\gamma(^{128}I)$ (continued) I_{γ} ^{‡#} E_{γ}^{\dagger} E_i(level) \mathbf{J}_i^{π} \mathbf{E}_{f} J_f^{π} 5962.15[@] 10 2+,3+ 863.90? 31 2 (6826.20) $2^{+},3^{+}$ $2^{+},3^{+}$ $2^{+},3^{+}$ 5976.71 5 849.34 73 4 (6826.20)(≤4) 5982.53 8 59 3 (6826.20)843.52 5986.00 4 128 5 (6826.20)840.04 $(1^{-},2,3^{+})$ 105 5 $2^+, 3^+$ 5997.70 4 (6826.20)828.34 6004.60[@] 6 58 3 (6826.20) $2^+, 3^+$ 821.44? 6030.42 19 $2^+, 3^+$ 13 1 (6826.20)795.62 6034.1[@] 5 $2^+, 3^+$ 41 (6826.20) 791.9? 6038.05 17 $2^+, 3^+$ 13 2 (6826.20) 787.99 6055.3[@] 4 8 1 $2^+, 3^+$ (6826.20)770.7? 6076.03 13 2+,3+ 22 1 (6826.20) 750.01 (≤4) 6121.14 17 $2^+, 3^+$ 15 1 (6826.20) 704.90 6139.01 8 2+,3+ 43 3 (6826.20) 687.03 $(3,4)^{-}$ $2^{+},3^{+}$ $2^{+},3^{+}$ $2^{+},3^{+}$ $2^{+},3^{+}$ 6149.31 9 37 2 (6826.20)676.73 6164.64 6 61 3 (6826.20)661.40 61 656.4 6169.6 4 (6826.20)52 3 6212.06 6 (6826.20)613.97 2+,3+ 27 2 608.54 6217.49 12 (6826.20) $(3,4)^{-}$ $2^{+},3^{+}$ 6271.59 2 207 9 (6826.20)554.44 $(2^{-},3,4^{-})$ 192 $2^+, 3^+$ 549.71 $(3^+, 4^+)$ 6276.32 19 (6826.20)6289.64[@] 8 2+,3+ 44 2 (6826.20) 536.39? $2^+,3^+$ $2^+,3^+$ 6307.53 2 576 23 (6826.20)518.50 $(3,4)^{-}$ 6340.70 17 17 *I* (6826.20)485.33 (≤4) $2^+, 3^+$ 435.51 6390.51 2 271 11 (6826.20) $(2,3)^{-}$ 6399.1 3 $2^+, 3^+$ 426.9 11 *1* (6826.20)2+,3+ 415.98 6410.04 16 16 1 (6826.20) $(2,3)^+$ $2^{+},3^{+}$ $2^{+},3^{+}$ $2^{+},3^{+}$ 6434.05 6 47 2 (6826.20)391.97 $(1,2,3)^+$ 6440.72 6 64 3 (6826.20)385.30 $2^+, 3^+$ 6449.29 *3* 376.73 $(4)^{-}$ 132 6 (6826.20) $2^+, 3^+$ 6453.66 6 59 3 372.36 (6826.20)6479.8[@] 8 $2^+, 3^+$ 51 (6826.20)346.2? 6481.76 19 2+,3+ 51 4 344.26 $(2,3,4)^+$ (6826.20)6530.44 14 $2^{+},3^{+}$ 19 *1* (6826.20)295.58 $(2,3,4)^+$ 71 $2^+, 3^+$ 4+ 6593.8 4 (6826.20) 232.2 6605.4 4 $2^+, 3^+$ 91 (6826.20)220.6 $(1,2,3)^+$ 2+,3+ 180.40 6645.61 2 185 8 (6826.20) $(3)^+$ $2^+, 3^+$ 53 3 160.77 $1^+, 2^+$ 6665.24 5 (6826.20)25 1 $2^+, 3^+$ 6674.53 9 (6826.20)151.48 $(3)^{+}$ $2^{+},3^{+}$ $2^{+},3^{+}$ $2^{+},3^{+}$ $2^{+},3^{+}$ 227 9 144.03 6681.98 2 (6826.20) $(3)^{-1}$ 6688.05 4 107 5 (6826.20)137.96 4^{-} 2^{-} 507 21 6692.36 2 (6826.20)133.65 $2^+, 3^+$ 128.28 $(4)^+$ 6697.73 4 126 5 (6826.20) $2^{+},3^{+}$ $2^{+},3^{+}$ $2^{+},3^{+}$ 72 8 85.54 3+ 6740.46 5 (6826.20) 2^{+} 6798.68 6 38 2 (6826.20)27.32 1^{+} 21 2 (6826.20) $2^+, 3^+$ 6826.00 9 0.0

[†] From 1990Is03. Uncertainty of ¹⁵N separation energy of 12 keV is included in the uncertainty of energy of γ rays by authors of 1990Is03.

[‡] From 1990Is03. Δ I γ does not include error of 5% in the cross section.

[#] For intensity per 100 neutron captures, multiply by 0.001.

[@] Placement of transition in the level scheme is uncertain.

 $x \gamma$ ray not placed in level scheme.

 $^{128}_{53}I_{75}$ -7



 $^{128}_{53}\mathrm{I}_{75}$



 $^{128}_{53}I_{75}$





 $^{128}_{53}I_{75}$

9



 $^{128}_{\,\,53}\mathrm{I}_{75}$