

¹¹⁵In(d,t) 2002SaZO

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 515 (2012)	1-Jan-2012

2002SaZO: E=18 MeV. Measured E(t)(θ) with FWHM=12 keV at 17 angles between 5° and 88° using multigap magnetic spectrograph at Van de Graaff accelerator.

1967Hj03: E=18 MeV. Measured E(t)(θ).

J^π(¹¹⁵In) target=9/2⁺.

¹¹⁴In Levels

E(level)	J ^π	L	S	Comments
0	1 ⁺ †	4	0.17	E(level): listed in 2002SaZO as -0.7 5, L=4, S=0.13 (1967Hj03). Configuration=πg _{9/2} ⊗vg _{7/2} .
190.36 7	5 ⁺ †	0	0.34	E(level): E=192, L=0, S=0.7 (1967Hj03). Configuration=πg _{9/2} ⊗vs _{1/2} .
220.89 9	4 ⁺ †	0	0.37	Configuration=πg _{9/2} ⊗vs _{1/2} +πg _{9/2} ⊗vd _{3/2} .
286.0 7	2 ⁺ †	4	0.84	E(level): E=278, l=(4), S=(0.25) (1967Hj03). Configuration=πg _{9/2} ⊗vg _{7/2} .
498.39 15	5 ⁺ &8 ⁻	2+5	0.28,0.21	E(level): unresolved doublet of 497.2, 5 ⁺ and 501.9, 8 ⁻ states. Configuration=πg _{9/2} ⊗vd _{3/2} for 5 ⁺ , and πg _{9/2} ⊗vh _{11/2} for 8 ⁻ . J ^π : in Table 4 of 2002SaZO , negative parity of 497.2 level is a misprint.
536.5 3	7 ⁻	5	0.26	E(level): E=541, l=5, S=0.29 (1967Hj03). Configuration=πg _{9/2} ⊗vh _{11/2} .
574.6 3	6 ⁻	5	0.22	Configuration=πg _{9/2} ⊗vh _{11/2} .
627.5 4	3 ⁺ †	4	0.71	Configuration=πg _{9/2} ⊗vg _{7/2} .
641.64 10	7 ⁺ †	2	0.63	Configuration=πg _{9/2} ⊗vd _{5/2} for.
689.2 5	8 ⁺ &5 ⁻	4+5	0.50,0.26	E(level): unresolved doublet of 687.5, 8 ⁺ and 696.4, 5 ⁻ states. Configuration=πg _{9/2} ⊗vg _{7/2} for 8 ⁺ and πg _{9/2} ⊗vh _{11/2} for 5 ⁻ . J ^π : in Table 4 of 2002SaZO , negative parity of 687.5 level is a misprint.
728.0 3	3 ⁺ &4 ⁺ †	2+0	0.11,0.08	Unresolved doublet of 725.1, 3 ⁺ and 728.5, 4 ⁺ states.
775.2 3	4 ⁺	4+2	0.44,0.08	Configuration=πg _{9/2} ⊗vg _{7/2} +πg _{9/2} ⊗vd _{3/2} .
825.43 18	2 ⁺ †	2	0.86	Configuration=πg _{9/2} ⊗vd _{5/2} .
866.2 18				L: L=2 (?).
909.72 22	6 ⁺ †	2	0.16	Configuration=πg _{9/2} ⊗vd _{3/2} .
1002.1 4	5 ⁺	2	0.06	Configuration=πg _{9/2} ⊗vd _{3/2} .
1029.33 20		4+2	0.25+0.11	Configuration=πg _{9/2} vg _{7/2} +g _{9/2} ⊗vd _{5/2} .
1044.47 15	6 ⁺ †	2	0.62	Configuration=πg _{9/2} ⊗vd _{5/2} .
1068.6 20				
1082.7 13				
1095.1 9				
1139.47 17		2		E(level): E=1134, l=2, S=0.37 (1967Hj03).
1169.9 10				
1315.9 3		2		
1341.8 3		2		
1377.1 5		2		
1400.5 5		2		
1456.0 4		(2)		E(level): E=1466, l=2, S=0.52 (1967Hj03).
1474.0 4		2+0		
1511.9 15		(0)		
1528.6 11				
1552.1 9		(0)		
1622.0 11				
1658.2 12				
1690.5 20				

† Negative parity in Table 4 of **2002SaZO** is a misprint.