^{165}Ho(p,t) 1973Go14,1972GoYY

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich, Balraj Singh	NDS 111, 1211 (2010)	12-Apr-2010

Additional information 1.
E_p= 30 MeV. J^π=7/2$^-$ for the ^{165}Ho g.s.
1973Go14, 1972GoYY (also 1971GoYX): measured σ(10°−80°). FWHM≈12. DWBA.
1985Mi06: g.s. transition strength measured.

^{163}Ho Levels

E(level)†	Jπ‡	L†	E(level)†	Jπ‡	L†	E(level)†	Jπ‡	L†
0[d]	7/2$^-$	0	807[e] 3	(9/2$^-$)		1232?[&] 5		
100[d] 3	(9/2)$^-$	2	826?[@] 3			1245?[@] 5		
224[d] 3	(11/2)$^-$	2	898?[@] 3			1259[e] 5	(15/2$^-$)	
369[d] 3	(13/2)$^-$		912?[@] 3			1286 5		(2)[a]
533[d] 3	(15/2$^-$)		926[e] 3	(11/2$^-$)		1308?[@] 5		
560[e] 3	(3/2)$^-$	2	1060 3			1345?[@] 5		
618[e] 3	(5/2)$^-$	2	1075[e] 3	(13/2$^-$)		1373[c] 5	7/2$^-$	0
695[e] 3	(7/2$^-$)		1117?[&] 3			1419?[@] 5		
720[d] 3	(17/2$^-$)		1156?[&] 3			1441 5		
755?[#@] 3		[b]	1175?[@] 3			1457?[@] 5		(2)[a]
791?[#] 3			1194 3		(2)[a]	1513 5		

† From 1972GoYY.
‡ From L-transfer, systematics, and membership in the indicated band. Parentheses added by the evaluators.
# Strongly excited, but origin unknown since it appears unrelated to the other observed levels.
@ Given by 1972GoYY only, not listed in 1973Go14. This level is not given in Adopted Levels, since it is not confirmed in any other study of the ^{163}Ho levels.
& Given by 1972GoYY only.
a Based only on the positions of the relative maximum.
b The $\sigma(\theta)$ distribution is flat and unstructured.
c Overall shape and strength of $\sigma(\theta)$ suggest a β or pairing vibration.
d Band(A): π7/2[523] band.
e Band(B): π7/2[533]+K-2 γ-vib (?). Possible K-2 γ-vibrational band built on the g.s. (π7/2[523]) (?).

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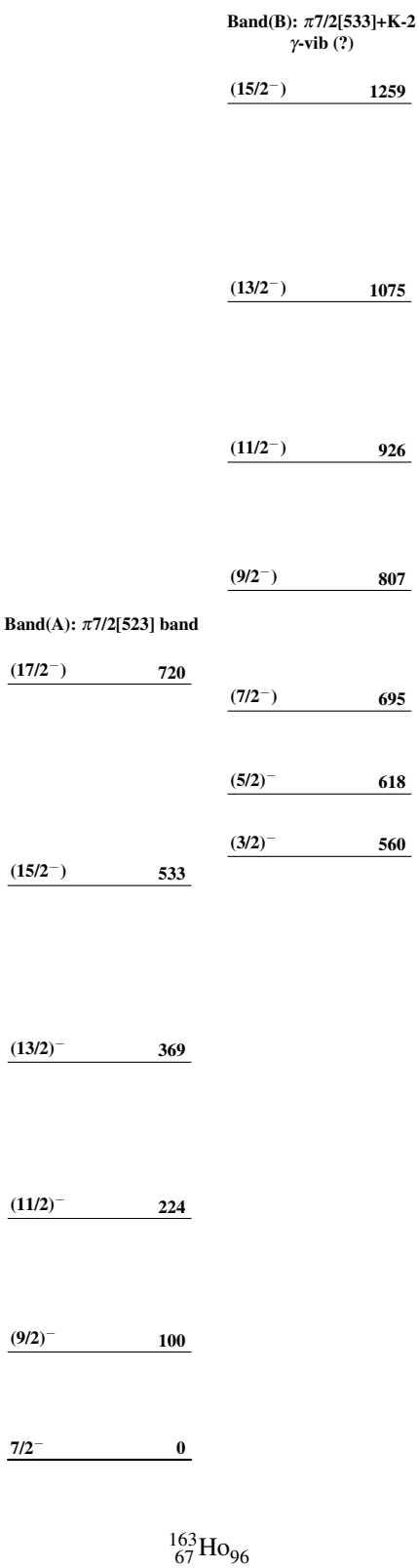

$^{163}_{67}Ho_{96}$