

Coulomb excitation 1971HoYN

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen [#]	NDS 126, 1 (2015)		31-Mar-2015

1971HoYN: ($^{32}\text{S}, ^{32}\text{S}'\gamma$) E=45 MeV. Thick calcium fluoride (enriched in ^{43}Ca) target. Measured γ -ray yields, deduced B(E2) values for 373 and 1678 levels, normalized to measured B(E2) for $5/2^+$, 197 level to $1/2^+$, g.s. in ^{19}F .

 ^{43}Ca Levels

E(level) [‡]	J $^\pi$ [†]		Comments
0	7/2 $^-$		
373	5/2 $^-$	B(E2) $\uparrow=0.0065$ 5	
593	3/2 $^-$		
1678	11/2 $^-$	B(E2) $\uparrow=0.0115$ 28	

[†] From Adopted Levels.

[‡] Rounded values from Adopted Levels.

 $\gamma(^{43}\text{Ca})$

E $_\gamma$ [†]	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	Mult.	δ	Comments
221	593	3/2 $^-$	373	5/2 $^-$			
373	373	5/2 $^-$	0	7/2 $^-$	(M1+E2)	0.161 14	δ : from B(E2)=0.0086 7 (1971HoYN) and T $_{1/2}$ (373)=34 ps 3.
593	593	3/2 $^-$	0	7/2 $^-$			B(E2)=0.0071 3 (1971HoYN), deduced from known lifetime of 593 level and measured (but not quoted) branching ratio.
1678	1678	11/2 $^-$	0	7/2 $^-$			B(E2)=0.0077 19 (1971HoYN).

[†] Rounded values from Adopted Gammas.

Coulomb excitation 1971HoYNLevel Scheme