

Coulomb excitation [1982Ro07](#),[1977Ro27](#),[1963Bj04](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 113, 2537 (2012)	1-Mar-2012

Additional information 1.

Coulomb excitation studies have been carried out with α particles at 13 MeV ([1977Ro27](#),[1982Ro07](#)), with p and d ([1963Bj04](#)), and with ^{208}Pb ([1987KuZX](#)). B(E2) and B(E3) are from [1982Ro07](#) unless otherwise noted.

1963Bj04: Enriched (\approx 99%) target excited with d and p.

1977Ro27: Enriched (99.53%) target. $E(\alpha)=13$ MeV. Scattered α 's measured in magnetic spectrograph with FWHM=18-30 keV.

1982Ro07: Same as [1977Ro27](#), with same authors.

1987KuZX: Target excited with ^{208}Pb , $E(^{208}\text{Pb})=4.7$ MeV/A.

 ^{156}Dy Levels

E(level)	J $^\pi$	Comments
0 [†]	0 $^+$	
138 [†]	2 $^+$	B(E2) $\uparrow=3.72$ 3 B(E2) \uparrow : Other: 3.79 30 (1963Bj04).
828 [‡]	2 $^+$	B(E2) $\uparrow=0.008$ 5
891 [#]	2 $^+$	B(E2) $\uparrow=0.180$ 11 B(E2) \uparrow : Other: 0.225, deduced from (d,d') study (1968Gr08).
1367 [@]	3 $^-$	B(E3) $\uparrow=0.22$ 7 B(E3) \uparrow : Other: 0.194 deduced from (d,d') study (1968Gr08).

[†] Band(A): $K^\pi=0^+$ g.s. band.

[‡] Band(B): Member of the first excited $K^\pi=0^+$ band.

[#] Band(C): Member of the γ -vibrational band ($K^\pi=2^+$).

[@] Band(D): Member of the $K^\pi=0^-$ octupole-vibrational band.

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**Band(D): Member of the
 $K^\pi=0^-$
octupole-vibrational
band**

3⁻ 1367

**Band(C): Member of the
 γ -vibrational band
($K^\pi=2^+$)**

**Band(B): Member of the
first excited $K^\pi=0^+$
band**

2⁺ 891

**Band(A): $K^\pi=0^+$ g.s.
band**

2⁺ 828

0⁺ 0