^{165}Ho(π^-,11nγ) 1975Eb06,1984Sh09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 200,2 (2025)	22-Aug-2022

Observed nuclear γ's from pionic atoms of ^{165}Ho.

^{154}Dy Levels

E(level)	J$^\pi$[†]
0	0^+
334.44 *10*	2^+
746.41 *14*	4^+
1224[‡]	6^+
1747[‡]	8^+
2304[‡]	10^+

† From ^{154}Dy Adopted Levels.
‡ Nominal value from Adopted Levels.

$\gamma(^{154}$Dy)

E$_\gamma$	I$_\gamma$[†]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.[‡]	α[‡]	Comments
334.44 *10*	3.9 *8*	334.44	2^+	0	0^+	E2	0.0467	E$_\gamma$: 1975Eb06 give 344.44 which is assumed to be misprint.
411.97 *9*	8.6 *12*	746.41	4^+	334.44	2^+	E2	0.0256	I$_\gamma$: Other: 1.7 *1* γ's per 100 stopped π- (1984Sh09).
477[#]		1224	6^+	746.41	4^+	E2		I$_\gamma$: 1.1 *1* γ's per 100 stopped π- (1984Sh09).
523[#]		1747	8^+	1224	6^+	E2		I$_\gamma$: 0.6 *3* γ's per 100 stopped π- (1984Sh09).
556[#]		2304	10^+	1747	8^+	E2		I$_\gamma$: 0.3 *1* γ's per 100 stopped π- (1984Sh09).

† The transition intensities, I$\gamma(1+\alpha)$, per 100 captured π- are given by 1975Eb06 for the γ's from 2^+ and 4^+ levels. Evaluators converted these values to Iγ. In 1984Sh09, the γ's per 100 stopped π-'s are reported for the γ's from the 4^+, 6^+, 8^+ and 10^+ levels; these values are given in comments.
‡ From Adopted γ radiations.
# Nominal value from Adopted γ radiations.

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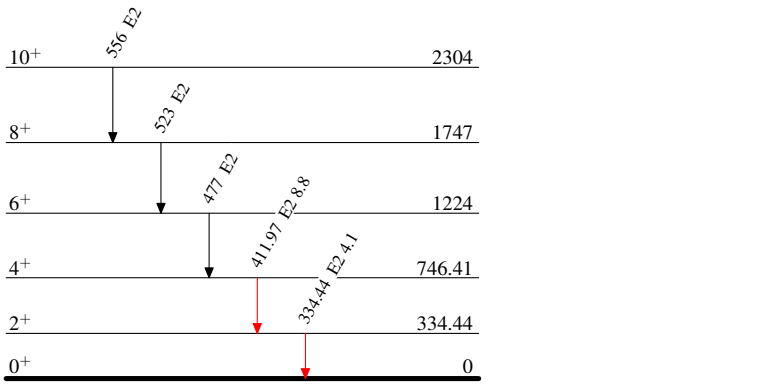
Level Scheme

Intensities: Iγ per 100 captured π^-.



$^{154}_{66}Dy_{88}$