^{165}Ho(μ^-,2nγ) **1984Mc07**

History

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

1984Mc07: E(μ^-)=stopped. Measured γ's, n's (tof), γn coin.
Exponential constant= 10.5 MeV *10* for E(n)=13− 50 MeV.
I(n)= 0.019 *4* per stopped muon for E(n)> 40 MeV.

^{163}Dy Levels

E(level)[†]	J$^{\pi}$[‡]
0.0	5/2$^-$
73.4	7/2$^-$
250.9	5/2$^+$
281.6	11/2$^-$
285.6	7/2$^+$

[†] Rounded-off values from Adopted Levels.
[‡] From Adopted Levels.

γ(^{163}Dy)

E$_{\gamma}$	I$_{\gamma}$[†]	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$	Comments
73.4[‡]		73.4	7/2$^-$	0.0	5/2$^-$	
177.4[‡]	1.5 *4*	250.9	5/2$^+$	73.4	7/2$^-$	I$_{\gamma}$: from adopted branching and Iγ(250γ).
208.2	4.0 *4*	281.6	11/2$^-$	73.4	7/2$^-$	
212	4.4 *4*	285.6	7/2$^+$	73.4	7/2$^-$	
250	14 *3*	250.9	5/2$^+$	0.0	5/2$^-$	I$_{\gamma}$: contaminated.

[†] Relative to a selected x-ray intensity.
[‡] Rounded-off value from adopted gammas, γ not reported in 1984Mc07, although there is some evidence of 177.4γ in the spectrum shown by 1984Mc07.

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Level Scheme

Intensities: Relative I$_\gamma$

Legend

I$_\gamma$ < 2%×I$_\gamma^{max}$
I$_\gamma$ < 10%×I$_\gamma^{max}$
I$_\gamma$ > 10%×I$_\gamma^{max}$

$^{163}_{66}$Dy$_{97}$