^{165}Ho(γ,nγ) 2008Ha21

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen[#]	NDS 147, 1 (2018)	30-Nov-2017

2008Ha21: E=3.3-16.7 MeV γ-rays provided by Compton scattering of laser photons and relativistic electrons at NewSUBARU electron storage ring facility. Measured Eγ, half-life of ^{164}Ho isomer using an HPGe detector.
The half-life of this isomer is of astrophysical significance.
The ^{165}Ho(γ,n) reaction populates both the g.s. and isomer of ^{164}Ho.

^{164}Ho Levels

E(level)[†]	J$^\pi$[‡]	T$_{1/2}$	Comments
0.0	1$^+$		The 73.4 and 91.4 keV γ rays are seen by 2008Ha21 from the decay of ^{164}Ho g.s. through ε and β^- modes.
37.3	2$^+$		
94.0	3$^+$		
140	6$^-$	36.4 min *3*	%IT=100 T$_{1/2}$: from 2008Ha21. Value is 36.6 min *3* in Adopted Levels.

[†] From Eγ data.
[‡] From Adopted Levels.

γ(^{164}Ho)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.	Comments
37.3	37.3	2$^+$	0.0	1$^+$		
46	140	6$^-$	94.0	3$^+$	E3	Mult.: from Adopted Gammas.
56.6	94.0	3$^+$	37.3	2$^+$		
94.0	94.0	3$^+$	0.0	1$^+$		

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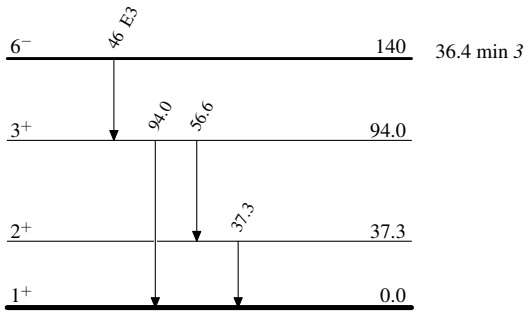
Level Scheme



$^{164}_{67}Ho_{97}$