^{168}Ho IT decay (132 s) 1990Ch37

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 111, 1807 (2010)	15-Jun-2010

Parent: ^{168}Ho: E≈59; $J^{\pi}=(6^+)$; $T_{1/2}$=132 s *4*; %IT decay≥99.5

Sources from ^{170}Er bombardments of natural tungsten, mass separation (see ^{168}Dy β^- decay). New ^{168}Ho activity evident from short-lived component in x ray spectrum.

^{168}Ho Levels

E(level)	J^{π}[†]	$T_{1/2}$[†]	Comments
0.0	3^+	2.99 min *7*	
≈59	(6^+)	132 s *4*	%IT≥99.5; %β^-≤0.5 E(level): from Eγ.

[†] From Adopted Levels.

γ(^{168}Ho)

E_γ[†]	I_γ[‡]	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.[†]	α[#]	$I_{(\gamma+ce)}$[‡]	Comments
(≈59)	0.0414 *12*	≈59	(6^+)	0.0	3^+	(M3)	2.41×10^3	100	ce(K)/(γ+ce)≈0.139; ce(L)/(γ+ce)≈0.639; ce(M)/(γ+ce)≈0.175; ce(N+)/(γ+ce)≈0.0462 ce(N)/(γ+ce)≈0.0410; ce(O)/(γ+ce)≈0.00509; ce(P)/(γ+ce)≈0.0001241 I_γ: deduced from I(γ+ce) and α.

[†] Plausible values consistent with $T_{1/2}$, x-ray data, growth and decay of ^{168}Ho activity, and comparison with analogous isomer in ^{172}Lu (B(M3)(W.u.)=0.053 *8*).

[‡] For absolute intensity per 100 decays, multiply by ≥0.995.

[#] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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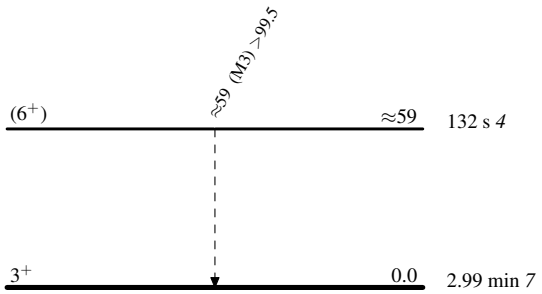
Legend

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT≥99.5

γ Decay (Uncertain)



$^{168}_{67}Ho_{101}$