Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Tuli	ENSDF	15-Aug-2015

S(n)=9672 *SY*; S(p)=630 *SY*; Q(α)=7378 *5* 2012Wa38
ΔS(n)=257 syst, ΔS(p)=216 syst (2012Wa38).
Identification: observation of known α decay from the ^{169}Pt α decay daughter (1999Se14).

^{173}Hg Levels

Cross Reference (XREF) Flags

A (HI,xnγ)

E(level)	J$^{\pi}$[†]	$T_{1/2}$	XREF	Comments
0	(7/2$^-$)	0.80 ms *8*	A	%α=100 *4* (2012Od01) $T_{1/2}$: measured in 2012Od01 from 7208α(t). Others: 0.59 ms *+47−18* (2004Ke06), 0.93 ms *+57−26* (1999Se14). Measured Eα=7208 *5* (2012Od01), 7192 *13* (2004Ke06), 7211 *11* (1999Se14). Other: 2009Sa27. %α: α decay only has been observed (1999Se14). Gross β decay theory predicts partial β-decay halflife≈0.9 s (1973Ta30), implying %ε+%β^+≈0.1%. J$^{\pi}$: Unhindered α decay to (7/2$^-$) ^{169}Pt.
0+x?	(9/2$^-$)		A	
721+x?	(13/2$^-$)		A	
1454+x?	(17/2$^-$)		A	
2029+x?	(21/2$^-$)		A	

[†] Tentative assignments suggested by 2012Od01.

$\gamma(^{173}Hg)$

E_i(level)	J_i^{π}	E_{γ}	I_{γ}	E_f	J_f^{π}
721+x?	(13/2$^-$)	721[†]	100	0+x?	(9/2$^-$)
1454+x?	(17/2$^-$)	733[†]	100	721+x?	(13/2$^-$)
2029+x?	(21/2$^-$)	575	100	1454+x?	(17/2$^-$)

[†] Ordering of 733-721 cascade is not established, it could be in reverse order.

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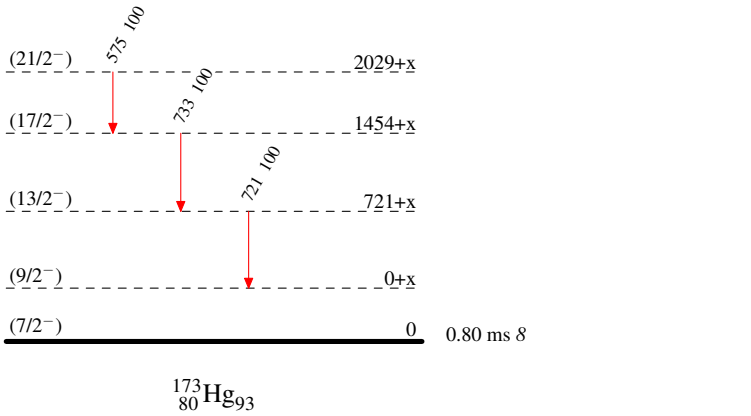
Level Scheme

Intensities: Type not specified



$^{173}_{80}Hg_{93}$