^{147}Sm(^{36}Ar,3nγ)   **2011Pa24**

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015

E(^{36}Ar)=168 MeV. Measured E(ce), I(ce) using SACRED spectrometer consisting of 25-element segmented Si detector and a solenoidal magnet. Channel selection performed with the recoil-decay tagging technique using the RITU gas-filled spectrometer and a position-sensitive Si strip detector; measured recoil-α-(ce) coincidences.

^{180}Hg Levels

E(level)[†]	J$^{\pi}$[†]
0.0	0$^+$
420	0$^+$
434	2$^+$
601	2$^+$
706	4$^+$
1032	6$^+$
1436	8$^+$
1913	10$^+$

[†] From the Adopted Levels.

γ(^{180}Hg)

Combined K and L transition intensities given normalized to 100 for the 272γ; approximate values read by the evaluator from Fig. 1 of 2011Pa24.

E$_\gamma$	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$	Mult.[†]	Comments
167 *3*	601	2$^+$	434	2$^+$	E0	K/L=6.6 *20*; Ice(K+L)≈66. Ice(167)=3% *1* relative to Ice(434)+Iγ(434).
272	706	4$^+$	434	2$^+$	E2	K/L=2.0 *3*; Ice(K+L)≈100.
326	1032	6$^+$	706	4$^+$	E2	K/L=2.5 *4*; Ice(K+L)≈55.
404	1436	8$^+$	1032	6$^+$		Ice(K+L)≈29.
420 *3*	420	0$^+$	0.0	0$^+$	E0	K/L=5.8 *25*; Ice(K+L)≈13.
434	434	2$^+$	0.0	0$^+$	E2	K/L=3.0 *8*; Ice(K+L)≈22.
477	1913	10$^+$	1436	8$^+$		Ice(K+L)≈26.

[†] From measured K/L ratio. Values given in comments were read by the evaluator from Fig. 3 of 2011Pa24.

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Level Scheme

$^{180}_{80}$Hg$_{100}$