(HI,xnγ)   **1995Sc50,1991Sc22**

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	Jean Blachot	NDS 108,2035 (2007)	30-Mar-2007

^{50}Cr(^{58}Ni,2p2n) E=245,250 MeV. Enriched ^{50}Cr (>97%).

Measured: γ, γγ, nγ. OSIRIS array detector. Evaporation neutrons were measured in coin with γ and multiplicity of p and α.

<u>^{104}Sn Levels</u>

E(level)	J$^{\pi\dagger}$	T$_{1/2}$	Comments
0.0	0$^+$		
1260.1 *3*	(2$^+$)		
1942.7 *5*	(4$^+$)		
2257.2 *6*	(6$^+$)	1.5 ns *5*	T$_{1/2}$: from Doppler shift.
3440.2 *6*	(8$^+$)		
3980.2 *7*	(10$^+$)		
5837.6 *9*			
6431.5 *9*			

† From syst between ^{106}Sn and ^{108}Sn and shell-model calculation.

<u>γ(^{104}Sn)</u>

E$_\gamma$	I$_\gamma$	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$
314.5 *3*	83 *6*	2257.2	(6$^+$)	1942.7	(4$^+$)
540.0 *3*	72 *7*	3980.2	(10$^+$)	3440.2	(8$^+$)
593.9 *3*	20 *2*	6431.5		5837.6	
682.6 *3*	90 *8*	1942.7	(4$^+$)	1260.1	(2$^+$)
1183.0 *3*	72 *6*	3440.2	(8$^+$)	2257.2	(6$^+$)
1260.1 *3*	100 *7*	1260.1	(2$^+$)	0.0	0$^+$
1857.4 *5*	17 *3*	5837.6		3980.2	(10$^+$)

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Level Scheme

Intensities: Relative I_γ

Legend

→ $I_\gamma < 2\% \times I_\gamma^{max}$
→ $I_\gamma < 10\% \times I_\gamma^{max}$
→ $I_\gamma > 10\% \times I_\gamma^{max}$

$^{104}_{50}$Sn$_{54}$