(HI, $xn\gamma$) 2014Is04

History								
Type	Author	Citation	Literature Cutoff Date					
Full Evaluation	Zoltan Elekes and Janos Timar	NDS 129, 191 (2015)	28-Feb-2015					

 $^{^{208}}$ Pb(HI,xn γ), 238 U(HI,xn γ).

128Sn Levels

E(level)	J^{π}	E(level)	J^{π}	E(level)	J^{π}	E(level)	J^{π}
0 [†]	0+	2091.50 12	(7-)	3146.7 <i>3</i>	(9-)	3979.8 <i>3</i>	(13 ⁻)
1168.81 5	$(2)^{+}$	2412.71 [†] <i>14</i>	(8^{+})	3553.9 <i>3</i>	(12^{+})	4099.5 <i>4</i>	(15^{-})
2000.35 [†] 7	(4^{+})	2491.97 [†] 20	(10^+)	3772.1 <i>3</i>	(11^{-})		

[†] Level not established in 2012Is04, taken from Adopted Levels.

$\gamma(^{128}\mathrm{Sn})$

E_{γ}	I_{γ}	$E_i(level)$	\mathbf{J}_i^{π}	\mathbf{E}_f	${\rm J}_f^\pi$	Εγ	I_{γ}	$E_i(level)$	J_i^{π}	\mathbf{E}_f	${\rm J}_f^\pi$
79.28 [†] <i>15</i>		2491.97	(10^{+})	2412.71	(8+)	625.3 3	36 4	3772.1	(11-)	3146.7	(9-)
91.15 [†] <i>10</i>		2091.50	(7^{-})	2000.35	(4^{+})	831.54 [†] 5		2000.35	(4^{+})	1168.81	$(2)^{+}$
119.7 2	100	4099.5	(15^{-})	3979.8	(13^{-})	1055.1 <i>3</i>	36 <i>4</i>	3146.7	(9^{-})	2091.50	(7^{-})
207.6 <i>3</i>	36 <i>4</i>	3979.8	(13^{-})	3772.1	(11^{-})	1062.0 <i>3</i>	64 6	3553.9	(12^{+})	2491.97	(10^{+})
321.22 [†] 7		2412.71	(8^{+})	2091.50	(7^{-})	1168.80 [†] 5		1168.81	$(2)^{+}$	0	0^{+}
426.0 2	64 6	3979.8	(13^{-})	3553.9	(12^{+})						

[†] From Adopted Gammas, not observed in 2014Is04.

²⁰¹⁴Is04: The measurements were performed at the Argonne National Laboratory with the ATLAS superconducting linear accelerator and the Gammasphere detector array, which consisted of 100 Compton-suppressed Ge detectors. In two of these experiments, a 330-MeV ⁴⁸Ca beam was bombarding 55 mg/cm2 ²³⁸U and 50 mg/cm2 ²⁰⁸Pb targets, and in the third one, a 430-MeV ⁶⁴Ni beam was used with the ²³⁸U target. For the detailed analysis, the data were unfolded into triple-coincidence events and sorted into separate prompt and delayed three-dimensional cubes. 2013Os04: same experiment, less detailed conference proceeding. All data are from 2014Is04 unless otherwise noted.

(HI,xnγ) 2014Is04

$\frac{Level\ Scheme}{Intensities:\ Relative\ I_{\gamma}}$



