

$^{114}\text{Sn}(\text{d,p})$ 1967Sc12

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Jean Blachot	NDS 113, 2391 (2012)	1-Sep-2012

E=15 MeV.

Other: 1968Co32.

Magnetic spectrograph resolution: 40 to 60 keV (FWHM).

Q(d,p)=5329 25 (1964Co11), 5321 3 (1975Be09) mass adjustment.

 ^{115}Sn Levels

ΔE : Uncertainty= ± 15 keV.

<u>E(level)&</u>	<u>J$\pi^{\ddagger}$</u>	<u>L†</u>	<u>C^2S'</u>	<u>E(level)&</u>	<u>J$\pi^{\ddagger}$</u>	<u>L†</u>	<u>C^2S'</u>	<u>E(level)&</u>	<u>J$\pi^{\ddagger}$</u>	<u>L†</u>	<u>C^2S'</u>
0.0	1/2 $^{+}$	0	1.92	980	5/2 $^{+}$ #	2	0.72	2070	(1/2 $^{+}$)	(0)	0.09
490	3/2 $^{+}$ #	2	2.48	1280	3/2 $^{+}$ #	2	0.12	2170	(3/2 $^{+}$)	(2)	0.08
600	7/2 $^{+}$	(4)	1.52	1630	(3/2 $^{+}$)#	(2)	0.18	2490	(5/2 $^{+}$)	(2)	0.13
730	11/2 $^{-}$	(5)	9.24	1970	(1/2 $^{+}$)	(0)	0.16	2770	(3/2 $^{-}$)	(1)	0.20

† Deduced from angular distributions at 8 angles ($\theta=10^{\circ}-50^{\circ}$).

‡ Assumed for DWBA analysis.

L=2 assignments (d3/2 or d5/2) are inferred from (d,p)/(d,t) cross-section ratio; (d,t) data from 1977Be45, 1977Va15.

@ Uncertainty= ± 15 keV.

& Other high-lying L=(3) excitations from 2950 to 3670 keV are assigned; L-values differ from (d,t).