

$^{117}\text{Sn}(\text{p,p}') \text{ E}=18 \text{ MeV}$ 1979FI10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

Measured: inelastic proton scattering on enriched target. Other: 1968Ya01. The angular distributions are not given.

 ^{117}Sn Levels

E(level)	$J^{\pi\dagger}$	$L^{\textcircled{a}}$	$S^{\dagger}$	E(level)	$J^{\pi\dagger}$	$L^{\textcircled{a}}$	$S^{\dagger}$
0	$1/2^+$			2160 15	$(5/2^-, 7/2^-)^{\#}$	3	620 30
160 10	$3/2^+$		53 10	2200 15	$(5/2^-, 7/2^-)^{\#}$		300 25
310 10	$11/2^-$		115 15	2270 15	$(5/2^-, 7/2^-)^{\#}$	3	360 30
360 10			60 15	2320 15	$(5/2^-, 7/2^-)^{\#}$		460 25
710 10	$7/2^+$		53 10	2400 15	$(1/2^+)$		180 30
1010 10	$3/2^+$	2	1000 99	2460 15	$(5/2^-, 7/2^-)^{\#}$	3	330 30
1180 10	$5/2^+$	2	35 9	2530 15			98 28
1300 10	$(7/2^-)$		93 12	2590 15			175 30
1450 10	$5/2^+$	2	206 15	2680 15			130 25
1500 10	$(3/2^+, 5/2^+)$		23 8	2750 15			60 18
1590 10	$(3/2^+, 5/2^+)$		102 13	2810 15			48 17
1810 10			29 9	2970 15			100 20
1910 10			35 11	3090 15			52 18
2030 15	$(1/2^-, 3/2^-)$		235 30	3140 15			50 18
2060 15	$(5/2^-, 7/2^-)^{\#}$		430 25	3250 15			75 20
2130 15			130 20				

† Relative intensities at 50° (lab).

‡ From Adopted Levels, unless otherwise noted.

$^{\#}$ Enhanced population to these states with energy in the region of the 3^- level in the even core suggest the presence of $5/2^-, 7/2^-$.

$^{\textcircled{a}}$ From 1968Ya01.