^{124}Sn(pol p,p) IAR 1975Ar04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Katakura	NDS 112, 495 (2011)	1-Jan-2010

1975Ar04: E(pol p)=7.2-12.0 MeV, enriched target; measured $\sigma(\theta)$, analyzing power (E,θ), resonance Γ.
Others: 1966Ri06, 1966Ha16, 1970Ar23, 1971Da18.
Coulomb energy difference=13597 *20*, calculated by evaluators from E(res) + S(n) (^{125}Sn) with the resonance energy, E(res), of $3/2^+$ state.

^{125}Sb Levels

E(level)[†]	J$^\pi$[‡]	L	Γ (keV)[#]	Comments
S(p)+7864	$3/2^+$	2	46 *5*	IAR of 27.5 keV, $3/2^+$ state in ^{125}Sn. Γ_p=6.0 keV.
S(p)+8071	$1/2^+$	0	51 *5*	IAR of 215.1 keV, $1/2^+$ state in ^{125}Sn. Γ_p=13.1 keV.
S(p)+9109	$(5/2)^+$	2	58 *12*	IAR of 1258-keV level in ^{125}Sn. Γ_p=1.9 keV.
S(p)+9393	$(5/2)^+$	2	33 *7*	IAR of 1540-keV level in ^{125}Sn. Γ_p=0.7 keV.
S(p)+10561	$7/2^-$	3	80 *4*	IAR of 2767-keV level in ^{125}Sn. Γ_p=22.4 keV.
S(p)+11160	$(3/2^-)$	(1)	2.1×10^2 *11*	IAR of 3349-keV level in ^{125}Sn. Γ_p=42.6 keV.
S(p)+11229	$(3/2^-)$	(1)	29 *15*	IAR of 3421-keV level in ^{125}Sn. Γ_p=1.7 keV.
S(p)+11651	$(1/2)^-$	1	84 *42*	IAR of 3830-keV level in ^{125}Sn. Γ_p=16 keV.
S(p)+11810	$(1/2)^-$	1	136 *68*	The closest level of L=(1) is observed at 4060 keV in ^{124}Sn(d,p). Energy difference is too large. Γ_p=33 keV.

[†] Resonance energies are given in the C.M. system. The uncertainties are 5-20 keV.
[‡] From angular momentum and analyzing power measurements.
[#] Total width.