

$^{124}\text{Sn}(^3\text{He,t})$ 1995Ph01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu	NDS 109, 1655 (2008)		1-Apr-2008

1995Ph01: $E(^3\text{He})=200$ MeV; enriched target, magnetic spectrograph, $\theta=0^\circ$ and 2° , FWHM ≈ 80 keV. Triton energy spectrum displayed IAR at excitation energy 12.19 MeV 3.

 ^{124}Sb Levels

All levels, except 150, 1330, and 1500 are populated weakly (1995Ph01).

$\Delta L=0$ identified by cross sections at 0° and 2° , some $\Delta L=1$ strength is also observed, although no discrete states are indicated (1995Ph01).

Although $L=0$ allows $J=0^+, 1^+$; $J=1^+$ are expected to be strongly populated in this reaction.

<u>E(level)[†]</u>	<u>L</u>	<u>$d\sigma/d\Omega$ (mb/sr)</u>	<u>E(level)[†]</u>	<u>J^π</u>	<u>L</u>	<u>$d\sigma/d\Omega$ (mb/sr)</u>
150 30	0	0.723	2850 30		0	
770 30	0		3090 30		0	
1330 30	0	0.478	3280 30		0	
1500 30	0	0.423	3600 30		0	
1870 30	0		3970 30		0	
2050 30	0		4150 30		0	
2410 30	0		12190 [‡] 30	0 ⁺		7.3 4

[†] From 1995Ph01;

[‡] Isobaric Analog State.