

$^{122}\text{Sn}(t,p)$ 1970F105

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

1970F105: E=20 MeV; Enriched target 92.2 %.

E=20 MeV; magnetic spectrograph, FWHM=18 keV, $\theta=12^\circ-72^\circ$.

 ^{124}Sn Levels

E(level) [†]	L	$\sigma(30^\circ)$ mb/sr	E(level) [†]	L	$\sigma(30^\circ)$ mb/sr
0.0	0	0.238	4916 10	3	0.0108
1138 5	2	0.0058	4948 5	5	0.0185
2109 5	5 [‡]	0.206	4970 5	(2,3)	0.0210
2213 5	(6+?)	0.0340	5014 5	3	0.0410
2333 5	7	0.0245	5131 5	(4)	0.0158
2438 5	2	0.0115	5166 5	3	0.0178
2612 5	(3)	0.0260	5196 5	3	0.0285
3360 5	4	0.0215	5267 5	7	0.0220
3414 5	4	0.0152	5313 5	5	0.0415
3508 5			5345 5	5	0.0225
3923 5	4	0.0920	5379 5	5	0.125
4520 5		0.0082	5430 5	5	0.0980
4620 5	4	0.0105	5459 10	5	0.0510
4672 5	3	0.0057	5552 10		0.0245
4707 5	3	0.0280	5614 10		0.0160
4818 5	5	0.0160	5866 10		0.0226
4880 10	3	0.0115			

[†] Comparison of E(levels) with other reactions indicates (t,p) values are higher by 6,7,8,12, and 10, for the 1138, 2109, 2333, 2438, and 2612 peaks, respectively.

[‡] $J^\pi=4^+$ (see Adopted Levels).