

$^{120}\text{Sn}(\alpha, d)$  1988La18

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. Tamura	NDS 108, 455 (2007)	30-Sep-2006

1988La18:  $^{120}\text{Sn}(\alpha, d)$  E=218 MeV, magnetic spectrometer with  $\Delta E$  analysis. Overall energy resolution=100 keV (2-3 mg target), 220 keV (5.4-10 mg) zero-range DWBA calculation with DWUCK code, proposed  $J^\pi$ , discussed higher angular momentum states with Configuration= $(\pi 1h_{11/2})(\nu 1h_{11/2})_{(11^+)}$  and others.

 $^{122}\text{Sb}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>†</sup>	Comments
0.0		
220		Configuration= $(\pi 2d_{5/2})(\nu 1h_{11/2})_{(8^-)}$ .
620		Configuration= $(\pi 1h_{11/2})(\nu 1g_{7/2})_{(9^-)}$ .
1750		
1890 50	11 <sup>+</sup>	Configuration= $(\pi 1h_{11/2})(\nu 1h_{11/2})_{(11^+)}$ .
3800		Composite states: E=3.25-4.6 MeV; Configuration= $(\pi 1h_{11/2})(\nu 1h_{11/2})_{(10^+)}$ .
6100		Composite states: E=4.6-10.5 MeV; configuration= $\pi 1h_{11/2}(\nu 1h_{9/2})_{(10^+)}$ $(\pi 1h_{11/2})(\nu 1i_{13/2})_{(12^-)}$ .

<sup>†</sup> From 1988La18.