^{112}Sn(d,^{6}Li) 1979Ja21

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

E(d)= 33 MeV.
Position-sensitive pc resolution=30− 80 keV in focal plane of Q3D magnetic spectrometer.
Q(d,^{6}Li)=− 357 keV.

^{108}Cd Levels

E(level)[†]	J$^{\pi}$[‡]	S[@]	Comments
0.0	0^+	0.019	
633	2^+	0.010	
1509	4^+[#]	0.009	
1607	2^+	0.005	
1704 *25*			
1830? *30*			E(level): not adopted, not supported by any other reaction.
1938 *25*	(0^+)[#]	0.001	
2228	3^-[#]	0.011	
2239			
2414			E(level): authors take E(level) from a now superseded ^{108}In ε decay study. This level is not present in the decay scheme adopted here.
2541	6^+	0.042	S: composite of 2541 *6+* and 2566 states.
2566	$(5)^+$		
2602		0.033	S: if J=5.
2738 *25*			
2808			
2921 *25*			

[†] Values with uncertainties are from this experiment. Other values are those adopted by the authors from other sources.
[‡] From Adopted Levels, except where noted otherwise.
[#] From E(level) vs neutron number systematics and absolute and relative cross sections.
[@] α-particle spectroscopic factors extracted with DWBA; values in parentheses are normalized to ^{148}Sm α decay.