^{138}Ba(^{7}Li,^{6}He) 1980Cl08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	P. K. Joshi, B. Singh, S. Singh, A. K. Jain	NDS 138, 1 (2016)	15-Oct-2016

E=52 MeV. Measured $\sigma(\theta)$; mag spect, pc. FWHM=70 keV. DWBA.

^{139}La Levels

E(level)	J^{π} †	L	C^2S	Comments
0.0	$7/2^+$	4	0.72 *17*	
166	$5/2^+$ ‡	2	1.03 *15*	
1.21×10^3	$1/2^+$	0	0.14 *4*	
1.42×10^3	$11/2^-$	5	1.19 *22*	
1.56×10^3	$5/2^+$ ‡	2	0.06 *2*	
1.77×10^3	$1/2^+,3/2^+$	0+2	0.28+1.22	C^2S: ΔC^2S=0.04,0.18.
1.85×10^3	$3/2^+$ ‡	2	0.43 *8*	
1.96×10^3	$3/2^+$ ‡	2	0.28 *6*	
2.24×10^3	$3/2^+,7/2^+$	2+4	0.12+0.24	C^2S: ΔC^2S=0.04,0.08.
2.31×10^3	$1/2^+$	0	0.15 *5*	
2.40×10^3	$11/2^-$	(5)	0.21 *7*	

† Assumed for extraction of C^2S, except as noted.
‡ From comparison of $\sigma(\theta)$ to DWBA calculations. $\sigma(\theta)$ seems to distinguish between $d_{3/2}$ and $d_{5/2}$.