$^{60}\text{Ni}(t,\alpha)$ **1966Bl15**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 151, 1 (2018)	1-Apr-2018

E(t)=15.0 MeV; measured $\sigma(\theta)$; 12 angles (c.m) between 12° and 47°, 99.8% ^{60}Ni targets, surface-barrier detector giving FWHM=40-55 keV (1966Bl15).

^{59}Co Levels

E(level)	L[†]	C²S[†]	Comments
0.0	3	6.61	
1093 15	1	0.29	
1188 15			
1290 15	1	0.07	
1460 15			
1738 15	3	1.01	
2057 20	3	0.80	
2191 20	(3)[‡]	0.20	
2585 20	3	0.61	
2715 20	0	1.66	
2818 25	1	0.48	E(level): Energy spread overlaps 3 Adopted Levels − not referenced by evaluator.
2961 25			
3166 25	2	2.39	
5120 40	2	0.62	

[†] L values and spectroscopic factors (C²S) are based on comparison of $\sigma(\theta)$ with DWBA calculations assuming a normalization factor of 38; $s_{1/2}$, $p_{3/2}$, $d_{3/2}$ and $f_{7/2}$ proton pickup has been assumed for L=0, 1, 2 and 3, respectively.

[‡] $\sigma(\theta)$ not shown; L inferred from J$^\pi$ indicated by authors.