^{60}Ni(d,t), (pol d,t) 1965Fu06,1976Hu06

History

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

Others: 1962Ma21, 1964Fu06.
1965Fu06: E(d)=15 MeV. Measured $\sigma(\theta)$ with ΔE-E counter telescope, FWHM≈70 keV, θ(lab)=20°−50°.
1976Hu06: E(pol d)=15 MeV. Measured A(θ) with ΔE-E counter telescope, θ(c.m.)≈15°−90°, FWHM at least 60 keV.
L values and spectroscopic factors are from comparisons of $\sigma(\theta)$ with DWBA calculations (1965Fu06).

^{59}Ni Levels

E(level)[†]	J$^\pi$[‡]	L	C^{2}S[#]
0.0	3/2$^-$	1	2.22
340 *30*	5/2$^-$	3	1.15
470 *30*	1/2$^-$	1	0.41
890 *30*	3/2$^-$	1	0.25
1320 *30*	1/2$^-$	1	0.22
1700 *30*			
1980 *30*	7/2$^-$	(3)	
2650 *30*	7/2$^-$	3	5.33
3090[@] *30*	(7/2)$^-$	3	≈2.3

[†] From 1965Fu06; ΔE=10-30 keV.
[‡] From measured vector analyzing power assuming L value from 1965Fu06 and/or from (^{3}He,α) (1976Hu06).
[#] C^{2}S is given. See 1965Fu06 for alternative values deduced assuming different neutron form factor.
[@] 1976Hu06 report E=3040 keV, ΔE unstated.