^{60}Ni(^{6}Li,d) 1977Fu03,1978Be25

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 178, 41 (2021).	12-Nov-2021

1977Fu03: E=28,36 MeV. FWHM=50-125 keV, $\sigma(\theta)$, DWBA. Absolute cross sections accurate to 20%. See also 1980An16, 1975Fu02, 1975De03 and 1975An13 (from the same group) for measurement of g.s. transition strength and analysis.
1978Be25: E=34 MeV, $\sigma(\theta)$, DWBA.
Others:
1980Ne05: E=156 MeV, $\sigma(\theta)$. Projectile breakup studied.
Additional information 1.

^{64}Zn Levels

E(level)[†]	L[†]	S[†‡]	Comments
0	0	1.0	S: 0.34 and 0.18 for different optical parameter sets at E(^{6}Li)=28 MeV; and 0.37 at E(^{6}Li)=36 MeV (1977Fu03).
992	2	0.26	
1800[#]		0.01[@]	
1910[#]		<0.02[@]	
2305	4	0.028	
2609[#]			
2770 *20*	2	0.097	E(level): unresolved doublet (2737,2^{+} and 2793,4^{+}).
2980 *20*	3	0.24	E(level): contribution from 3078 level small.
3260[#] *20*			L: not 0, 1.
3680 *20*	1	0.26	
3830	5,6	0.07	Reported by 1978Be25 only.
3900 *20*			E(level): probably several unresolved levels.

[†] From 1977Fu03, unless otherwise stated. Energies of levels up to 2609 quoted by 1977Fu03 from evaluation by 1974Au04.
[‡] From 1977Fu03 at E(^{6}Li)=28 MeV, unless otherwise stated. Values are relative to 1.0 for ground state. Values at E(^{6}Li)=28 MeV are also available in 1977Fu03.
[#] Weak group.
[@] From 1978Be25 (relative to 0.95 for g.s.).