^{60}Ni(^{3}He,t) 1978Zi01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 114, 1849 (2013)	31-Dec-2012

E(^{3}He)=38 MeV. Measured $\sigma(\theta)$, θ(lab.)=2.5°−65°. Magnetic spectrograph, FWHM≈ 55 keV (1978Zi01).
E(^{3}He)=24 MeV. Measured $\sigma(\theta)$, θ(lab.)=10°−80°. ΔE-E semi telescopes, FWHM=40− 60 keV (1973Ru03).
Others: 1971Be29, 1972Be38, 1983Be24.
2007Ze06: Extracted differential cross section for transition to to final stage with known Fermi strength, in this case 0^+ level at 2.54 MeV.

^{60}Cu Levels

E(level)[†]	L[@]	Comments
0.0[‡]	2	
62[‡]	(1)	L: 1973Ru03 obtained (0+2).
287 *5*	2	
324 *5*		
357 *5*		
455[‡]	4	L: 1973Ru03 obtained (2+4).
555 *5*	4	
587 *5*	2	
667[‡]		L: 1973Ru03 obtained (0+2).
779[‡]	4	
900[‡]	4	L: 1973Ru03 obtained (2+4).
943[‡]	(1)	
1333 *10*	(1)	
1432 *10*	4	
1492 *10*	4	
1594 *10*	6	
1646 *10*	(2)	
1694 *10*	4	
1768 *10*		L: 1973Ru03 obtained (0+2).
1887 *10*	4	
1918 *10*	(1)	
1981 *10*	2	
2170 *10*	2	L: 1973Ru03 obtained (0+2).
2231 *10*	2	
2286 *10*	2+4	
2344 *10*	2+4	
2474 *10*	4	
2540[‡]	0	E(level): IAS ^{60}Ni(g.s.) (1973Ru03).
2593 *10*		
2633 *10*		
2726 *10*	(2)	
2791 *10*	2	
2888 *10*	(2)	
2915 *10*	2+4	
3001 *10*	2	
3044 *10*	(2)	
3094 *10*	(2)	
3162 *10*	4	
3282 *10*		
3344 *10*	(4)	
3452 *10*	(2)	
3592 *10*	2+4	

Continued on next page (footnotes at end of table)

^{60}Ni(^{3}He,t) 1978Zi01 (continued)

^{60}Cu Levels (continued)

E(level)[†]	L[@]	Comments
3705 *10*	2+4	
3874[‡]	2[&]	E(level): IAS ^{60}Ni(1332) (1973Ru03).
3980[#]		

[†] From 1978Zi01, except as noted. There is good agreement between the results of 1973Ru03 and 1978Zi01.
[‡] Used for energy calibration (1978Zi01).
[#] From 1973Ru03.
[@] From comparisons of $\sigma(\theta)$ with coupled-channels calculations (1978Zi01), except as noted.
[&] From 1973Ru03.