^{62}Ni(α,p) 2001Ny01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 111, 2425 (2010)	1-Aug-2009

Additional information 1.

1972Bu17,1975Se14.

2001Ny01: Eα=25 MeV. Measured cross sections at θ=7.5° to 77.5° in steps of 5°. FWHM≈25 keV. DWBA analysis determined level spins and parities. The J-dependence of cross sections was used to achieve firmer spin assignments.

1972Bu17, 1975Se14: Eα=19.3-19.4 MeV, FWHM=150-200 keV; measured σ(E(p),θ), θ=10°−130°; DWBA analysis with zero-range approximation; deduced L, S′.

^{65}Cu Levels

E(level)[‡]	J$^\pi$[#]	L[†]	S′	E(level)[‡]	J$^\pi$[#]	E(level)[‡]	J$^\pi$[#]
0	3/2$^-$	1	1.00	2905 *5*	(3/2,5/2)	3640 *5*	
771 *2*	1/2$^-$	1	0.44	3003 *5*	(11/2$^-$)	3666 *5*	(9/2,7/2)
1116 *3*	5/2$^-$	3	0.40	3082 *3*	(3/2,5/2)	3737 *5*	
1482 *5*				3278 *3*	(11/2$^-$)	3757 *3*	(9/2,7/2)
1623 *2*	5/2$^-$	3	1.08	3359 *2*	5/2$^+$	3825 *5*	
1729 *5*				3402 *5*	(7/2,9/2)	3910 *5*	(9/2)
2105 *5*	5/2$^-$			3485 *5*	(7/2,9/2)	3965 *5*	(9/2,11/2)
2213 *3*	(3/2$^-$)			3519 *5*	(9/2$^+$)	4011 *3*	(11/2$^-$)
2328 *3*	3/2$^-$			3566 *5*	(5/2,7/2)	4090 *3*	(9/2)
2534 *2*	9/2$^+$	4	0.85	3606 *5*	(9/2,7/2)	4195 *3*	(9/2$^+$)

[†] From DWBA analysis of $\sigma(\theta)$ (1972Bu17, 1975Se14).

[‡] From 2001Ny01. ΔE=2 keV for the strongest proton groups, increasing to ΔE=5 keV for the weakest was assigned by evaluators on authors′ suggestions.

[#] From DWBA analysis (2001Ny01).