

$^{64}\text{Ni}(\alpha, \text{p})$ **2001Ny01**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huang Xiaolong, J. K. Tuli		NDS 106, 159 (2005)	1-Apr-2005

2001Ny01: $E(\alpha)=25$ MeV, target: purity 99.8%, FWHM= ≈ 25 keV, position-sensitive focal-plane detector, angles ranging: from 7.5° to 77.5° In steps of 5° , DWBA analysis.

1972Bu17: $E(\alpha)=19.3$ MeV, FWHM=150-200 keV; measured $\sigma(\theta)$, DWBA analysis.

Others: [1975Se14](#), [1968Se03](#), [1965Sa21](#).

All data are from [2001Ny01](#), except As noted.

 ^{67}Cu Levels

ΔE : [2001Ny01](#) observed that the uncertainties for the strongest are ≈ 2 keV, for the weakest are ≈ 5 keV. The rest are estimated based on authors' FIG.12 by the evaluators.

E(level)	$J^{\pi\ddagger}$	L #	E(level)	$J^{\pi\ddagger}$	E(level)	$J^{\pi\ddagger}$
0	$3/2^-$	1	3334 4		4059 3	$(7/2)$
1115	$5/2^-$	1+3	3364 4		4127 3	$(7/2)$
1169 2	$1/2^-$		3394 5		4163 2	$(9/2)$
1633 2	$5/2^-$	3	3480 3	$(11/2^-, 9/2)$	4195 3	$(7/2)$
1937 4	$3/2^-$		3522 4	$(7/2, 9/2^-)$	4262 3	$(7/2)$
2270 5			3638 2	$(11/2^-)$	4315 3	$(13/2^+)$
2507 2	$9/2^+$	4	3693 4	$(11/2^-, 9/2)$	4364 2	$(7/2, 11/2^-)$
2680 4	$3/2^-$		3736 4	$(5/2)$	4406 3	$(11/2^-)$
2996 4	$(3/2^-)$		3838 4	$(5/2)$	4448 5	$(7/2, 9/2^-)$
3036 5	$(7/2^-)$		3865 3	$(5/2)$	4493 4	
3123 3	$(11/2^-, 9/2^+)$		3947 5	$(5/2)$	4518 4	
3250 4	$(7/2^+, 9/2^-)$		3998 4	$(17/2^+, 15/2^-)$	4561 4	
3277 4	$(5/2)$		4031 4		4603 4	

\dagger [2001Ny01](#) observed that the uncertainties for the strongest are ≈ 2 keV, for the weakest are ≈ 5 keV. The rest are estimated based on authors' FIG.12 by the evaluators.

\ddagger Based on measured angular distributions and DWBA analysis.

$\#$ From [1972Bu17](#) based on DWBA fit to $\sigma(\theta)$ data.