

$^{65}\text{Cu}(\alpha, \alpha')$ **1973StZJ**

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

Target $J^\pi=3/2^-$.**1973StZJ:** $E\alpha=42$ MeV, FWHM=80-100 keV; measured $\sigma(E\alpha, \theta)$, $\theta=10^\circ-50^\circ$; DWBA analysis.**1968Ku21:** $E\alpha=29$ MeV, FWHM≈70 keV; measured $\sigma(E\alpha, \theta)$, $\theta=20^\circ-60^\circ$; DWBA analysis.**1963Br29:** $E\alpha=44$ MeV, FWHM=150-180 keV; measured $\sigma(E\alpha, \theta)$.Data are mostly taken from **1973StZJ** and are in agreement with **1968Ku21** data, except as noted.Others: **1960Cr05**, **1961Ch20**, **1961Sa03**, **1965Ta06**, **1970Iv02**.For level density measurements see **1972Lu03**, **1972Lu09**, **1973Bu32**, **1974Pa06**.For elastic scattering data see **1975Bo02**, **1982En04**, **1982Pa08**. ^{65}Cu Levels

E(level) [†]	L [‡]	Comments
0		
771 25	2	
1114 25	2	
1482 25	2	
1629 25	2	
1725 25	2	
2098 25	2	
2344 25		E(level): only reported in 1973StZJ .
2530 25	3	
2858 25	(2)	L: from DWBA analysis of $\sigma(\theta)$ data in 1973StZJ . L=3 favored from $\sigma(\theta)$ data in 1968Ku21 .
2980 25	3	
3082 25	3	
3310 25	3	E(level): reported as 3350 in 1968Ku21 , uncertainty not given.
3494 25	3	
3709 25	3	
3930 25	3	E(level): only reported in 1973StZJ .
4047 25	3	
4180 25		E(level): only reported in 1973StZJ .
4260 90		E(level): from 1963Br29 . Uncertainty estimated by evaluators from FWHM=150-180 keV.

[†] From **1973StZJ**, except as noted.[‡] From DWBA analysis of $\sigma(\theta)$ data in **1973StZJ**.