

${}^{63}\text{Cu}(\text{d,n}),(\text{pol d,n})$ [1966Ok02](#),[1968Ok08](#),[1976Wo02](#)

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

$J^\pi({}^{63}\text{Cu g.s.})=3/2^-$.

[1966Ok02](#), [1968Ok08](#): (d,n),E=11.7 MeV, time of flight, $\text{FWHM}\leq 3\%$, $\sigma(\theta)$. Data in [1966Ok02](#) (also [1965Ok01](#)) and DWBA analysis in [1968Ok08](#).

[1976Wo02](#): (pol d,n),E=8 MeV. Measured $\sigma(\theta)$ and analyzing powers for g.s. and first 2^+ state. DWBA calculations.

[2013Ra32](#): (d,n),E=6, 7.5 MeV. Measured E(n), I(n), $n(\theta)$, $\sigma(E,\theta)$ using TOF technique at Edwards accelerator facility, Ohio University. Deduced level density. Hauser-Feshbach model calculations using EMPIRE and TALYS computer codes.

[Additional information 1](#).

 ${}^{64}\text{Zn}$ Levels

E(level) [†]	L [†]	$(C^2S)(2J_f+1)/(2J_i+1)$ [†]
0	1	0.55
1030 50	1	1.16
1850 50	1	0.39
2230 50		
3120 50	1	2.44
3400 50	1	0.65
3850 50	1	1.13
4420 50	1	0.94
5050 50	1	0.46
5480 50	(1)	0.48

[†] From [1968Ok08](#).