

$^{64}\text{Ni}(\text{d},\text{n})$  1968Ok07

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Jun Chen	NDS 202,59 (2025)	25-Feb-2025

1968Ok07 (also 1968Le20,1966Ok01,1966Ok02,1965Ok01): E=11.7 MeV deuteron beam was produced from the ITEF cyclotron. Scattered neutrons were measured by a multichannel time-of-flight spectrometer. Measured  $\sigma(E_n,\theta)$ . Deduced levels, J,  $\pi$ , L-transfers, spectroscopic factors from DWBA analysis.

 $^{65}\text{Cu}$  Levels

Spectroscopic factor is obtained by using  $d\sigma/d\Omega(\text{exp})=N\times(2J+1)C^2S\times d\sigma/d\Omega(\text{DWBA})$ , where N is the normalization factor and J is the spin of the final level.

<u>E(level)<sup>†</sup></u>	<u>L<sup>‡</sup></u>	<u>(2J+1)C<sup>2</sup>S<sup>‡</sup></u>
0	1	2.41
770 50	1	1.36
1540 50	3	6.65
1720 50	(1)	0.10
2220 50	1	0.68
2910 50	(1)	0.66
3110 50	1	0.15
3490 50	1	0.24
4050 50		

<sup>†</sup> From 1968Ok07.

<sup>‡</sup> From DWBA analysis of measured  $\sigma(\theta)$  in 1968Ok07.