

$^{66}\text{Zn}(\text{n,d})$ 1967Ch02

<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

1967Ch02: 14.1 MeV neutron beam was produced at Milano. Target was 4.0 mg/cm² 96.07% enriched self-supporting ^{66}Zn . Deuterons were detected with a ΔE -E counter telescope $E(\text{n})=14.1$ MeV. Measured $\sigma(E(\text{d}),\theta)$, $\theta_{\text{cm}}\approx 10^\circ-70^\circ$. Deduced levels, J, π , L-transfers, spectroscopic factors from DWBA analysis.

 ^{65}Cu Levels

<u>E(level)</u>	<u>L[†]</u>	<u>C²S[†]</u>
0	1	1.55 17
770	1	0.40 8
1114		
1480?‡		
1620‡	3#	3.2# 6
1720?‡		
2100?		

† From DWBA analysis of measured $\sigma(\theta)$ in 1967Ch02. Uncertainty in C²S reported in 1967Ch02 is statistical only and a 10% uncertainty due to other causes as estimated by 1967Ch02 has been added in quadrature by the evaluator.

‡ Unresolved in a composite peak.

For a composite peak also including 1480 and 1720.