^{66}Zn(d,^{3}He) 1978Ze04

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

1978Ze04: E=23.3 MeV deuteron beam was produced from the ANL 60-inch cyclotron. Target was >98% enriched ^{66}Zn with a thickness of about 150 μg/cm^2 on a 10 μg/cm^2 carbon backing. Reaction products were detected with a ΔE-E surface-barrier detector telescope (FWHM<50 keV). Measured σ(E(^{3}He),θ), θ_{cm}=12°−30°. Deduced levels, L-transfers, spectroscopic factors from DWBA analysis.

Other: 1961Yn03.

^{65}Cu Levels

Spectroscopic factor is obtained by using dσ/dΩ(exp)=N×C^{2}S×dσ/dΩ(DWBA), where N is the normalization factor.

E(level)†	L‡	C^{2}S‡
0	1	1.7
770	1	0.44
1114	3	0.55
1481	3	1.2
1623	3	0.39
2093	3	1.5
2278	3	0.73
2651	3	1.8

† From 1978Ze04.
‡ From DWBA analysis of measured $\sigma(\theta)$ in 1978Ze04.