

$^{64}\text{Zn}(\alpha, ^2\text{He})$  1990Fi07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 111, 1093 (2010)	3-Mar-2009

$E\alpha=56.1$  MeV, FWHM=200-300 keV; measured  $\sigma(\theta)$  at four angles in range,  $\theta=17.5^\circ-40^\circ$  (c.m.); DWBA analysis.  
[Additional information 1.](#)

 $^{66}\text{Zn}$  Levels

Configuration: configurations used in the DWBA analysis of data.

E(level)	L <sup>†</sup>	Comments
0	0	Configuration=( $\nu f_{5/2}0^+$ )
4220 50	7+5	Configuration=(( $\nu f_{5/2}$ )( $\nu g_{9/2}$ ) <sup>7-</sup> +( $\nu p_{1/2}$ )( $\nu g_{9/2}$ ) <sup>5-</sup> ) E(level): unresolved doublet; data include a small contribution from a level at about 4400 visible at some backward angles. L=7 assigned to the main level at 4220 with a tentative L=5 assigned to the 4400 level.
4680 50		
5200 50		
5740 50		

<sup>†</sup> From DWBA analysis of  $\sigma(\theta)$ .