

$^{66}\text{Zn}(\alpha, \alpha')$     **1970Al16**

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

**1990Bu25:**  $E\alpha=50.5$  MeV; measured  $\sigma(\theta)$ , DWBA and coupled-channels analysis.

**1970Al16:**  $E\alpha=31$  MeV, FWHM=80-120 keV;  $\sigma(\theta)$ ,  $\theta\approx 15^\circ-65^\circ$ ; DWBA analysis.

**1971Al11:**  $E\alpha=27.2$  MeV, FWHM=250 keV;  $\sigma(\theta)$ ,  $\theta\approx 20^\circ-160^\circ$ ; DWBA analysis.

Others: [1963Br13](#), [1965Wi04](#), [1967Se12](#), [1968Al20](#), [1970Iv02](#), [1973Bu32](#), [1975Ba77](#), [1975Bo02](#), and [1979PaZO](#). For giant resonance data see [1976Yo02](#), [1978Mo10](#), [1980Lu06](#), [1981Co16](#), and [1981Yo04](#).

Additional information 1.

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

E(level) <sup>†</sup>	L <sup>‡</sup>	Comments
0		
1040 30	2	$\beta_2$ : 0.19 ( <a href="#">1970Al16</a> ), 0.22 ( <a href="#">1971Al11</a> ), 0.220 ( <a href="#">1990Bu25</a> ), 0.217 ( <a href="#">1990Bu25</a> ); the two values from <a href="#">1990Bu25</a> are from DWBA and coupled-channels analysis, respectively.
1870 30	(2)	
2450 30	(4)	
2830 30	3	$\beta_3$ : 0.19 ( <a href="#">1970Al16</a> ), 0.21 ( <a href="#">1971Al11</a> ).
3090 30	4	$\beta_4=0.075$ ( <a href="#">1970Al16</a> )
3770 30		
3920 30		
4150 30		
4430 30	3	$\beta_3=0.072$ ( <a href="#">1970Al16</a> )
4540 30		
4770 30		
4910 30		
5100 45		
5370 45		
5500 45		
5690 45		
5790 45		

<sup>†</sup> From [1970Al16](#).

<sup>‡</sup> From DWBA analysis of  $\sigma(\theta)$  ([1970Al16](#)).