

$^{66}\text{Zn}(\alpha, \text{d})$ 1994Fi01, 1969Lu07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

1994Fi01: $E(\alpha)=56$ MeV. Measured $\sigma(\text{Ed}, \theta)$ for $15^\circ-25^\circ$ (2.5° steps) and $30^\circ-70^\circ$ (5° steps) using $\Delta\text{E-E}$ Si detector telescope (FWHM=120 keV); DWBA analysis, stretched two nucleon configurations.

1969Lu07: $E(\alpha)=50$ MeV. Measured $\sigma(\text{Ed}, \theta)$ using Si detector telescope (FWHM \approx 170 keV). Similar results from the same group are presented in [1968Lu05](#), [1968Lu04](#), and [1968LuZY](#).

 ^{68}Ga Levels

E(level) [†]	J ^{π}	Comments
0.0	1 ⁺	J ^{π} : from the Adopted Levels.
1290 30	(6 ⁻)	J ^{π} : from DWBA analysis (1994Fi01). Configuration= $((\pi 2p_{3/2})(\nu 1g_{9/2}))_{6-}$.
1610 [‡] 30		
2910 30	(9 ⁺)	E(level): weighted average of 2940 30 (1994Fi01) and 2880 30 (1969Lu07). J ^{π} : from DWBA analysis (1994Fi01) and strong population in reaction and systematics (1969Lu07). Configuration= $((\pi 1g_{9/2})(\nu 1g_{9/2}))_{9+}$.

[†] From [1994Fi01](#), unless indicated otherwise.

[‡] Level not observed in [1969Lu07](#).