

$^{64}\text{Zn}(\alpha, \text{d})$ [1994Fi01, 1969Lu07](#)

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

[1994Fi01](#): E=56.2 MeV, FWHM=120 keV; measured $\sigma(\theta)$, DWBA analysis.

[1994Vo01](#): systematics of stretched proton-neutron configurations in fp-shell nuclei; calculated $g_{9/2}$, $f_{7/2}$, and $p_{3/2}$ single-particle binding energies.

[1969Lu07, 1968Lu05](#): E=50 MeV, FWHM $\approx$ 170 keV; measured $\sigma(\theta)$ at $\theta(\text{lab})=14^\circ, 20^\circ, 34^\circ, 40^\circ$.

 ^{66}Ga Levels

Configuration: configurations used in the DWBA analysis of angular distribution data ([1994Fi01](#)).

E(level) [†]	J ^{π}	Comments
100		
580		
820		
1380 30	(6 ⁻)	Configuration=((π p _{3/2})(ν g _{9/2}))6 ⁻ E(level): from 1994Fi01 . J ^{π} : from DWBA analysis (1994Fi01).
1450		
2980 21	(9 ⁺)	Configuration=((π g _{9/2})(ν g _{9/2}))9 ⁺ E(level): weighted average of 2970 30 (1994Fi01) and 2990 30 (1969Lu07). J ^{π} : from DWBA analysis (1994Fi01) and from strength of reaction σ , reaction systematics, and shell model (1969Lu07, 1968Lu05).

[†] From [1969Lu07](#), unless indicated otherwise.