## $^{68}$Zn(d,t), (pol d,t) 1975Bo01,1981Bi04

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | Huo Junde, Huang Xiaolong, J. K. Tuli | NDS 106, 159 (2005) | 1-Apr-2005 |

1975Bo01: E(d)=12 MeV, FWHM=45-65 keV; measured $\sigma(\theta)$, $\theta$=15°- 145°, DWBA analysis.
1981Bi04: E(pol d)=12.0 MeV, FWHM≈50 keV; measured $\sigma(\theta)$, vector analyzing power, $\theta$=20°−120°, DWBA analysis.
Other: 1960Ze02.

### $^{67}$Zn Levels

E,L,S(B) From 1975Bo01, except where noted otherwise.

| E(level) | $J^{\pi}$‡ | L | $C^2S$@ | Comments |
|---|---|---|---|---|
| 0 | $5/2^-$ | 3 | 3.42 | |
| 93 | $(1/2^-)$ | 1 | 0.54 | |
| 185 | $3/2^-$ | 1 | 0.18 | |
| 394 | $3/2^-$ | 1 | 1.86 | |
| 602 | $9/2^+$ | 4 | 0.57 | |
| 888 | | 1 | 0.03# | |
| 978 | $5/2^+$ | 2 | 0.12 | L: from 1981Bi04. |
| 1142 | $(1/2^-)$ | 1 | 0.21 | |
| 1370 | | (2,3) | | |
| 1444 | | 1 | 0.05# | |
| 1542 | | (1,2) | | |
| 1676 | $1/2^+$ | 0 | 0.33 | E(level): unresolved doublet formed by 1642 and 1676 levels though the main contribution is from the 1676 level. |
| 1808 | | (0) | (0.19) | E(level): unresolved doublet formed by 1782 and 1808 levels though the main contribution is from the 1808 level. |
| 1842 | | 1 | 0.05# | |
| 2100 | | (3) | (0.42) | |
| 2172 | | (0) | (0.10) | |
| 2246† | | (0) | (0.28) | |
| 2273† | | | | |

† Unresolved doublet.
‡ From analyzing power data (1981Bi04).
# Assuming p3/2 neutron transfer (1975Bo01).
@ From 1981Bi04, except where noted otherwise.