

${}^{70}\text{Zn}(\text{p,d})$ 1966Mc15

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 115, 1 (2014)	31-Jul-2013

1966Mc15: E=17.5 MeV protons incident of Zn target. Reaction products detected using ΔE -E solid-state detector telescope with resolution ≈ 70 KeV. Measured $\sigma(\theta)$, $\theta \approx 10^\circ - 130^\circ$. DWBA (Julie) analysis.

 ${}^{69}\text{Zn}$ Levels

E(level)	J^π [†]	L [‡]	C2S [#]	E(level)	L [‡]	C2S [#]	E(level)	L [‡]	C2S [#]
0	$1/2^-$	1	0.8	1180 30			2310 30	1	0.18
440 30	$9/2^+$	4	1.6	1610 30	1	0.27	2460 30	1	0.16
540 30	$5/2^-$	3	3.5	1850 30	1	0.27	2790 30	1	0.21
840 30	$3/2^-$	1	1.9	1990 30	1	0.33			

[†] Assumed to extract spectroscopic factors.

[‡] From DWBA analysis of $\sigma(\theta)$.

[#] For L=1 levels above 1 MeV, average values for J=1/2 and J=3/2 are given.