

${}^{68}\text{Zn}(t,p)$ 1972Hu06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan		NDS 136, 1 (2016)	1-Jul-2016

E(t)=11.88 MeV. Measured $\sigma(\theta)$ for $\theta=35^\circ$ to 175° using multigap spectrograph and Ilford K2 nuclear emulsions (FWHM=20 keV); DWBA analysis using optical-model parameters derived from fits to ${}^{64,67}\text{Zn}(t,t)$ elastic scattering data.

 ${}^{70}\text{Zn}$ Levels

E(level)	L [†]	σ_{max} ($\mu\text{b}/\text{sr}$) [‡]	E(level)	L [†]	σ_{max} ($\mu\text{b}/\text{sr}$) [‡]	E(level)	L [†]	σ_{max} ($\mu\text{b}/\text{sr}$) [‡]
0.0	0	4.4×10^3 7	3031 10	(5)	60 9	3802 [#] 10		21 3
884 10	2	164 25	3232 10	(4)	4 1	3839 10	1	25 4
1069 10	0	164 25	3325 10	(0)	53 8	3883 10		18 3
1767? 10		5 1	3340 10	(3)	45 7	3914 10		14 2
1787 10	4	28 4	3423 10	(3)	6 1	3951 10	1	24 4
1955 10	2	76 11	3458 10	4	18 3	3999 10	2	73 11
2139 10	0	76 11	3502 10	5	41 6	4020 [@] 10		14 2
2661 10	2	70 11	3631 10	2	64 10	4060 10	4	8 1
2690? 10		6 1	3677 10	0	51 8	4140 10		21 3
2856 10	3	59 9	3707 10	2	28 4	4297 10	2	49 7
2971 10	4	46 7	3746 10		13 2			

[†] From DWBA analysis.

[‡] Maximum σ in units of ($\mu\text{b}/\text{sr}$).

[#] Possible doublet.

[@] Doublet.