

${}^{91}\text{Zr}(\text{p,d})$ 1968Ba31

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, E. A. Mccutchan		NDS 165,1 (2020)	1-Mar-2020

$J^\pi({}^{91}\text{Zr})=5/2^+$.

1968Ba31: E=31 MeV. Measured $\sigma(\theta)$. Magnetic spectrograph, nuclear emulsions. FWHM=18 keV.

For discussion of strength distribution of L=1, L=3 and L=4 levels, see 1987DuZW.

Other: 1971Ma58.

 ${}^{90}\text{Zr}$ Levels

E(level) [†]	L [‡]	C ² S ^{‡#}	E(level) [†]	L [‡]	C ² S ^{‡#}	E(level) [†]	L [‡]	C ² S ^{‡#}
0	2	0.98	4220 5	4	0.26	5050 10	4	2.05
2184 5	2	0.04	4320 5	4	1.27	5100 10	1	0.41,0.37
2744 5			4443 5	4	1.85	5420 10	1	0.47,0.51
3069 5			4528 5	4	2.20	5500 10	1	0.18,0.19
3296 5			4578 5	4	0.96	5560 10	1	0.20,0.22
3557 5			4650 5			5640 10	1	0.41,0.44
3840 5			4810 10	1	0.37,0.34	5950 10	1	0.58,0.62
4030 5			4980 10	1	0.42,0.38			

[†] From 1968Ba31.

[‡] From comparison with DWBA calculations (1968Ba31).

Values are given for both J=1/2 and J=3/2, respectively, for states of L=1.