

${}^{89}\text{Y}({}^3\text{He,d})$ 1969Vo03

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

$J^\pi({}^{89}\text{Y})=1/2^-$.

1969Vo03: E=25 MeV. Measured $\sigma(\theta)$, ten angles between 10° and 55° . Magnetic spectrograph, nuclear emulsions. FWHM=30 keV.

For a discussion of anti-analog states, see 1969Vo03.

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

E(level)	L^\dagger	$C^2S^{\ddagger\ddagger}$	E(level)	L^\dagger	$C^2S^{\ddagger\ddagger}$	E(level)	L^\dagger	$C^2S^{\ddagger\ddagger}$
0	1	1.31	5660 15	2	0.38	7000 15	0	0.14
1760 15	1	0.52	5760 15	2	0.43	7110 15	0	0.16
2320 15	4	12.43	5860 15	2	0.26	7160 15	2	0.17
2730 15	4	9.99	6020 15	2	0.16	7260 15	0	0.17
4230 15	1	0.22,0.18	6070 15	2	0.25	7350 15	2	0.18
4500 15	1	0.08,0.06	6200 15	2	0.18	7420 15		
4560 15	1	0.14,0.11	6250 15	2	0.33	7480 15		
4650 15	1	0.04,0.04	6320 15	2	0.12	7530 15	<i>a</i>	<i>a</i>
4780 15	1	0.06,0.04	6370 15	@	@	7580 15	<i>a</i>	<i>a</i>
4980 15	2	0.04	6400 15	@	@	7650 15	2	0.25
5080 15	#	#	6640 15	2	0.10	7770 15	2	0.26
5100 15	#	#	6670 15	&	&	7840 15	2	0.26
5180 15	1	0.08,0.06	6710 15	&	&	7910 15	(2)	0.23
5310 15	2	0.06	6760 15	2	0.08	8000 15		
5420 15	2,1	0.05,0.04	6810 15	2	0.16	8050 15	(2)	0.19
5620 15	2	1.09	6880 15	0	0.12	8120 15	(2)	0.37

† From comparison with DWBA calculations (1969Vo03).

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

$L=2$ and $C^2S'=0.57$ for 5080+5100 keV.

@ $L=(2)$ and $C^2S'=0.49$ for 6370+6400 keV.

& $L=0+2$ and $C^2S'=0.10+0.16$ for 6670+6710 keV.

a $L=2$ and $C^2S'=0.36$ for 7530+7580 keV.