

$^{89}\text{Y}(\text{p,p}),(\text{pol p,p})$  1964Fo03,1969Mi18,1973Gr08

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

1964Fo03:  $^{89}\text{Y}(\text{p,n})(\text{p,p})$ , measured  $\sigma(\text{E})$ .

1969Mi18: E=7.04-7.61 MeV. Measured  $\sigma(\text{E},\theta)$ , Si(Li), polarization( $\theta$ ), carbon foil polarimeter and  $\Delta\text{E}/\text{E}$  telescope.

1973Gr08:  $^{89}\text{Y}(\text{polarized p,p})$ , E=4.7-5.1 MeV. Measured  $\sigma(\theta)$ , A( $\theta$ ).

Others: 1969Li17, 1992Ch38.

Data are from 1964Fo03, except as noted.

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

E(level)	$\text{J}^\pi$	L	$\Gamma^\dagger$	Comments
13120 30	$1^-, 2^-, 3^- \&$	2	$25.5^{\ddagger} 20$	E(level): Probable analog of $^{90}\text{Y}(\text{g.s.})$ .
13320 30	$1^-, 2^-, 3^- \&$	2	$27.7^{\ddagger} 20$	E(level): Probable analog of $^{90}\text{Y}(203)$ .
14270 30				E(level): Probable analog of $^{90}\text{Y}(1212)$ .
14400 30				E(level): Probable analog of $^{90}\text{Y}(1371)$ .
15550 30	$2^-, (1^-) @$		$60^\#$	E(level): Proton configuration d3/2. Probable analog of $^{90}\text{Y}(2474)$ .
15700 30	$1^-, (2^-) @$		$60^\#$	E(level): Proton configuration d3/2. Probable analog of $^{90}\text{Y}(2624)$ .

$^\dagger$   $\Gamma$  in keV.

$^\ddagger$  From 1973Gr08.

$^\#$  From 1969Mi18.

$@$  From 1969Mi18.

$\&$  From L.