

$^{96}\text{Zr}(p,\alpha)$ 1975Pe02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010

E(p)=22.8 MeV, FWHM=60-70 keV, cooled Si(Li) detectors, $\theta(\text{C.M.})\approx 10^\circ - 120^\circ$, 25% ^{92}Zr impurity in target; cluster-transfer DWBA analysis of $\sigma(\theta)$.

 ^{93}Y Levels

<u>E(level)[†]</u>	<u>J^π[‡]</u>	<u>E(level)[†]</u>	<u>J^π[‡]</u>	<u>E(level)[†]</u>	<u>J^π[‡]</u>	<u>E(level)[†]</u>
0.0	1/2 ⁻	1130	5/2 ⁻	1870	(5/2 ⁻)	2530 [#]
590	3/2 ⁻	1290 ^{&}	5/2 ⁻ ^{&}	2000		2790 [#]
760	@	1540		2070	(11/2 ⁻)	2890 [#]
880	5/2 ⁻	1700	(5/2 ⁺)	2350 [#]		

[†] ΔE not stated by authors, but E is within 6 keV of adopted value for $E \leq 1700$ keV.

[‡] From comparison of $\sigma(\theta)$ with that for state whose J^π is known, and with DWBA predictions.

[#] $\sigma(\theta)$ not uniquely fitted by DWBA.

@ $\sigma(\theta)$ not well fitted by 9/2⁺ DWBA prediction.

& Multiplet at this energy in (d,³He) and ^{93}Sr β^- decay.