

$^{90}\text{Zr}(\text{d},\text{d}') \quad 1973\text{Ba}28$

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

1973Ba28: E(d)=15 MeV. Measured $\sigma(\theta)$ with magnetic spectrograph, $\theta=20^\circ-110^\circ$. FWHM=35 keV.

1992Se02: E(d)=16.0 MeV, polarized deuterons. Measured $\sigma(\theta)$ and vector-analyzing power with semi telescope.

Data are from **1973Ba28**, except as noted. Others: **1982C103**, **1975Ba41**, **1996Ka10**.

 ^{90}Zr Levels

E(level) [†]	L [‡]	βR [‡]	Comments
0			
1750	0	0.10	
2180	2	0.39	βR : 1975Ba41 obtain $\beta\text{R}=0.24$ in poor agreement with 1973Ba28 and 1992Se02 .
2300	5	0.24	
2750	3	0.71	βR : 1975Ba41 obtain $\beta\text{R}=0.49$ in poor agreement with 1973Ba28 and 1992Se02 .
3090	(4)	0.18	
3290	2	0.23	
3440	(6)	0.09	
3820	2	0.27	
3940	5	0.16	
4220	2	0.20	
4350	(4)	0.23	

[†] From **1973Ba28**.

[‡] From comparison with DWBA calculations (**1973Ba28**), except where noted. L=4 and 6 give poor fits to the data, and are considered tentative.