

$^{92}\text{Zr}({}^3\text{He},\text{d}) \quad \text{1969Ca20,1973Fi14}$ 

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

Other: [1970Mc19](#).[1969Ca20](#):  $^{92}\text{Zr}({}^3\text{He},\text{d})$ ,  $E=30.9$  1 MeV, magnetic spectrograph + photographic plates,  $\theta(\text{lab})=6^\circ-30^\circ$ , 94.5%  $^{92}\text{Zr}$  target, FWHM=30 keV; DWBA analysis of  $\sigma(\theta)$ .[1973Fi14](#):  $^{92}\text{Zr}({}^3\text{He},\text{d})$ ,  $E=30.2$  MeV,  $\Delta E-E$  Si telescopes, FWHM=70 keV,  $\theta(\text{lab})=8^\circ-45^\circ$ ; DWBA analysis of  $\sigma(\theta)$  for IAS. $^{93}\text{Nb}$  Levels

E(level) <sup>†</sup>	L <sup>‡</sup>	S' <sup>#</sup>	Comments
0	4	7.90 4	
29 5	1	1.06 6	
685 5	1	0.28 2	
807 5	2	0.360 18	
970?@ 10	1	0.024	
1080 10	4	0.4	
1290 10	1	0.20 4	
1330 10	(2)	0.24	
1570 10	1	0.08	
1660 10	2	0.048	
1710 10	2	0.036	
2180 10	2	0.18	
2320 10	2	0.36	
2520 10	(0)		
2590 10	2	0.12	
11020& 40	2&	3.9&	Analog of $^{93}\text{Zr}(\text{g.s.})$ .
12470& 40	2&	2.12&	Analog of $^{93}\text{Zr}$ 1450 or 1425 level.
12570& 40	4&	3.0&	Analog of $^{93}\text{Zr}$ (1470 level).
13090& 40	5&	2.4&	Analog of $^{93}\text{Zr}$ (2028 level).

<sup>†</sup> From [1969Ca20](#), except as indicated.<sup>‡</sup> From [1969Ca20](#): DWBA analysis of  $\sigma(\theta)$ , if not indicated otherwise.<sup>#</sup> From [1969Ca20](#): DWBA analysis of  $\sigma(\theta)$ , normalized by authors to 10 holes in the  $1g_{9/2}$ ,  $2p_{1/2}$ ,  $2p_{3/2}$ ,  $1f_{5/2}$  orbitals; normalization factor =0.81.@ This deuteron group may include a contribution from  $^{90}\text{Zr}({}^3\text{He},\text{d})$ . No other evidence exists for an L=1 level at this energy.  
Level omitted from Adopted Levels.& From [1973Fi14](#) only;  $\Delta E=30-40$  keV. L and S' deduced from comparison of  $\sigma(\theta)$  and DWBA (single particle resonance method).