

$^{93}\text{Nb}(\text{p},\alpha)$ **1974Ve08**

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

 $J^\pi(^{93}\text{Nb})=9/2^+$.1974Ve08: E=15.2 MeV. Measured $\sigma(E\alpha,\theta)$, $\theta=10^\circ-160^\circ$, semi; $\theta=10^\circ, 30^\circ$, magnetic spectrograph, FWHM=11 keV.

Other: 1995Ol01.

For shell and odd-even effects on alpha-particle energy spectra from the (p,α) reaction on nuclei around neutron number 50, see
1987Ku01. ^{90}Zr Levels

E(level)	L [‡]	S [†]	Comments
0	4	1.0	
1760	(4)	0.022	
2180	4	0.177	
2320	1	1.0	
2740	1	1.4	L,S: Doublet.
3070	4	0.35	
3290	4	0.14	
3450	4	0.43	
3590	4	0.56	
3840		@	
3955 10	1	0.68	
4015? 10		@	
4120? 10		@	
4225 10	1		
4280 10	1		
4330 10			
4370 10	3		
4420? 10		@	
4450? 10		@	
4470 10	#		
4490 10	#		
4540 10	1		
5100	3		

[†] Normalized to 1 for the ground state (1974Ve08).[‡] From comparison with DWBA calculations (1974Ve08).

L=(3) for the levels at 4470 and 4490 keV.

@ Weak.