

$^{96}\text{Ru}(\text{d},\text{p})$ [1977Ho02,1977Me04](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

[1977Ho02](#): E(d)=11.5 MeV; measured $\sigma(\text{E}(\text{p}),\theta)$ $\theta=15^\circ$ to 67.5° ; Si surface barrier detectors, resolution $\approx$ 25 keV. Analysis with DWBA (DWUCK) with N=1.53.

[1977Me04](#): E(d)=16 MeV; measured $\sigma(\text{E}(\text{p}),\theta)$ $\theta=8^\circ$ to 54° ; ms with emulsion plates, FWHM=20 keV; analysis with DWBA (DWUCK) with N=1.53.

Measured Q(d,p)=5886 3 ([1977Ho02](#)), Q(d,p)=5892 7 ([1977Me04](#)).

 ^{97}Ru Levels

E(level) [†]	J ^π [‡]	L [†]	S' [†]	Comments
0.0	5/2 ⁺	2	3.43	S': <0.07 (1977Me04).
189 7	3/2 ⁺			
421 7	7/2 ⁺	4	4.84	
527 7	3/2 ⁺	2	0.84	
770 7	3/2 ⁺	2	0.19	
908 7	1/2 ⁺	0	1.15	Level seen by 1977Me04 only.
1184 5	3/2 ⁺ ,5/2 ⁺	2		
1477 7	3/2 ⁺ ,5/2 ⁺	2	0.77,0.67	
1887 7	11/2 ⁻	5	6.78	
1929 7	3/2 ⁺ ,5/2 ⁺	2	0.50,0.42	
2005 7				S': unresolved doublet, angular distribution reproduced with L=0 (S=0.04) + L=2 (S=0.19 if J=3/2) transfers.
2080 7				
2173 7	1/2 ⁺	0	0.12	
2284 7	1/2 ⁺	0	0.22	
2350 7		0+2		
2506 7	1/2 ⁺	0	0.13	
2605 7				
2652 7	1/2 ⁺	0	0.10	
2702 7	1/2 ⁺	0	0.15	
3030 7	3/2 ⁺ ,5/2 ⁺	2	0.35,0.30	

[†] From [1977Ho02](#), unless otherwise noted.

[‡] From Adopted Levels.