

$^{102}\text{Ru}(\text{p,d})$ 1986Di10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

E= 26.3 MeV, FWHM \approx 24 keV.

Measured: $\sigma(\theta)$ 15 angles between 20° and 100°, DWBA analysis.

 ^{101}Ru Levels

E(level) [‡]	L [†]	C ² S	Comments
0.0	2	2.25	
127 5	2	0.013	
307	4	2.86	
311	2	0.29	
325	0	0.16	
422 5	2	0.20	
527	5	0.99	
540	2	0.34,0.27	L: L=5 with S=0.99. C ² S: the two values correspond to J=L-1/2 and J=L+1/2, respectively.
623	2	0.40,0.31	C ² S: the two values correspond to J=L-1/2 and J=L+1/2, respectively.
625	0	0.063	
687 5	2	0.031,0.024	
720 5	4	0.29	
822 5	2	0.17,0.13	
927 5	2	0.062,0.048	
975 5	2	0.17,0.14	
1041 5	2	0.12,0.094	
1112 5	0	0.012	
1169 5	2	0.045,0.036	
1225 5	4	0.33,0.19	
1276 5	0	0.011	
1427 [#] 5			
1477 [#] 5	2	0.20,0.16	E(level): From the author's spectrum, a comparison with the adjacent peaks at 1440 and 1555 suggest that the energy should be 1490 in agreement with the +13 keV deviation.
1542 [#] 5	2	0.065,0.055	
1584 [#] 5	2	0.10,0.085	
1701 [#] 5	(2)	0.093,0.078	
1718 [#] 5	0	0.026	
1764 [#] 5	0	0.021	
1820 [#] 5	2	0.095,0.081	
1871 [#] 5			
1971 [#] 5	2	0.071,0.061	
2063 [#] 15			
2087 [#] 15			
2143 [#] 15			
2231 [#] 15			
2350 [#] 15	(2)		
2407 [#] 15			

[†] Deduced from angular distribution compared with DWBA.

[‡] Levels with no quoted ΔE are mixed peaks, not fully resolved.

[#] The average deviation for the 11 cases above 1440 is +13 keV. Evaluator has lowered these energies by 13 keV.