

$^{25}\text{Mg}(\text{d,p})$ [1984Ar16,1984Bu13](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia and A. M. Hurst		NDS 134,1 (2016)	1-Feb-2016

$J^\pi(^{25}\text{Mg})=5/2^+$.

Other references: [1983Ch17,1980Ma32,1975To11,1966Lu06,](#)

[1984Ar16](#): E=13 MeV; measured $\sigma(\text{Ep})$, $s(\theta)$. ^{26}Mg levels, deduced J, p, (2J+1)S. Magnetic spectrograph, gas ionization chamber.

DWBA analysis, shell model calculations.

[1984Bu13](#): E=12 MeV; measured $s(\theta)$, $s(\text{Ep})$. ^{26}Mg deduced levels, J, p, spectroscopic factors. DWBA analysis, shell model comparison.

 ^{26}Mg Levels

E(level) [†]	L [#]	S [#]	Comments
0.0	2	2.8	
1808 [‡]	0+2	0.16,3.5	
2937 [‡]	0	3.4	
3586 [‡]	2	0.32	
3938 [‡]	0+2	2.0,1.1	
4834 [‡]	0+2	0.30,1.1	
4896 [‡]	2	1.5	
4965 [‡]	(2) @	≈0.03 @	
5289 [‡]	2	3.3	
5472 [‡]	2	2.2	
5711 [‡]	2	0.56	
6121 [‡]	0+2	0.74,4.2	
6255 [‡]			
6746 [‡]	0+2	0.04,0.58	
6876 [‡]	1+3	1.2,3.5	
7261 [‡]	1+3	1.5,3.7	L,S: For doublet (7262+7283).
7283 [‡]			
7349 [‡]	1+3	1.1,2.4	
7542 [‡]	1+3	0.36,1.1	
7726 [‡]	2	0.80	
7773 [‡]	2	0.72	
7816 [‡]	0+2	0.62,0.93	
7953 [‡]	3	7.8	

[†] From [1984Bu13](#), except otherwise noted.

[‡] From Adopted Levels, value rounded.

[#] From [1984Ar16](#), except otherwise noted.

@ from [1984Bu13](#).