²⁶Mg(e,e') 1974Le17,1995Se03

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

1974Le17: Target: 99.7% enriched self-supporting ²⁶Mg foil (thickness 46.8 mg/cm²); Electron beam, E=56.89,81.36,82.75,84.16,85.09,91.28, 95.74,110.45,110.71 MeV; Inelastic electron spectra were measured; Deduced ²⁶Mg excited level energies, form factors.

1995Se03: 99.4% enriched ²⁶Mg target; Electron beam of energy 85 to 360 MeV; QDD spectrometer was used to collect data between 33° and 154°. Deduced excited level energy, spin and parity.

E(level) [†]	$J^{\pi \#}$	L	Comments
0.0			
1809 5	2+	2	
2945 10	2^{+}	2	
3579 11	0^{+}	0	
3941 [‡] 5	3+‡		
4337 25	2^{+}	2	
4350 [‡] 5	3+‡		
4875 15	4+	4	
4979 16	0^{+}	0	
5294 <i>19</i>	2+	2	
5449 50	4+	4	
5720 22	4+	4	
6125 [‡] 5	3+‡		
6216 20	0^{+}	0	
6876 14	3-	3	
7082 16	2+	2	
7242 [‡] 5	3+ ‡		
7364 15	2+	2	
7691 18	3-	3	J^{π} : Poor form factor fitting for 3 ⁻ .
7724 [‡] 5	3+‡		
7830 17	3-	3	
8181 16	3-	3	
8220	(1-)	(1)	
8248 [‡] 5	3+‡		
8456 [‡] 5	3+‡		
8526 19	(2^+)	(2)	
8892 14	2+	2	
9042 [‡] 5	3+ ‡		
9250	(1^{-})	(1)	
9287 19	2+	2	
9423 [‡] 5	3+‡		
9727 25			
9800	(1^{-})	(1)	
9860 18	2+	2	
9902 [‡] 5	3+ ‡		
10199 27	1-	1	
10330 [@] 20	(3 ⁻)	(3)	
10491 23	2+	2	
10650 [@] 50	1-	1	
10680 [@] 34	4+	4	
20000 01	•	•	

²⁶Mg Levels

²⁶Mg(e,e') 1974Le17,1995Se03 (continued)

²⁶Mg Levels (continued)

E(level) [†]	$J^{\pi \#}$	L
10838 24	2+	2
10990 27	2^{+}	2

[†] From 1974Le17, except otherwise noted.

[‡] From 1995Se08. Uncertainty for excited levels are \leq 5 keV noted in 1995Se03, evaluators list as 5 keV. Spin and parity assignments are based on form factors, γ decay and shell model calculations.

[#] From 1974Le17, based on relations of experimental form factors and reduced transition probability for transition of multipolarity L, except otherwise noted.

[@] Level energy overlaps with more than three excited level energies in Adopted Levels and not referenced.