$^{26}_{13}\text{Al}_{13}$

²⁶Mg(p,n),(p,nγ) 1987Ma19,1988Le17,1972Pr09

	History	y	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia and A. M. Hurst	NDS 134.1 (2016)	1-Feb-2016

Others: 1994Br11,1987Ra23,1987Sk01,1985Wa24,1981No03,1980Be23,1980Go07, 1980Pa14,1980St08,1979Ki02. $J^{\pi}(^{26}Mg)=0^+$.

1987Ma19: (p,n) – 99.45% enriched ²⁶Mg target; proton beam, E=134.4 MeV; three NE102 plastic scintillators, Time-of-flight spectra, FWHM 370 keV for 128.5 MeV neutrons, DWIA calculation; deduced Gamow-Teller strengths.

1988Le17: (p,n) – 99.45% enriched ²⁶Mg target; proton beam, E=135 MeV; Neutrons were detected using three rectangular bars of fast plastic scintillator; Time-of-flight spectra were measured in approximately 4° steps from 0° to 63°; measured cross sections, DWIA calculations, deduced excited levels, spin and parity.

1972Pr09: $(p,n\gamma) - {}^{26}Mg$ target (thickness 1 mg/cm²) on gold backing bombarded by proton beams, E=7.4 MeV; Ge(Li)-NaI(Tl) escape suppressed and pair-escape spectrometer; Measured E γ , I γ , γ -ray angular distribution; Deduced level scheme, spin and parity.

²⁶Al Levels

E(level) [†]	\mathbf{J}^{π}	L	Comments
0.0	5+ #		
228.305 13		0	a precision measurement of the threshold for the excitation of 1st excited state in (p,n) reaction has vielded E _(-threshold) =5209.46 keV 12 (1994Br11).
416.852 <i>3</i>	3+		
1057.739 12		0	
1850.62 <i>3</i>		0	
2068.86 5	4 ⁺ @	0^{\ddagger}	
2069.47 3		0^{\ddagger}	
2071.64 4	1		
2740.03 3		0	
3402.65 6	5+ #		
3723.81 4		0	
6891.70 <i>4</i>	6 ^{-#}		
10660 10	6- #		

 † From Adopted Levels, except otherwise noted.

[‡] L=0 for triplet (1987Ma19).

[#] From angular distribution measurements and DWIA calculations (1988Le17).

[@] From 1972Pr09, based on γ -ray angular distribution measurements.