
 $^{26}\text{Mg}(\pi^-, \pi^+)$ [1980Na12](#)

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

Target: Enriched metallic ^{26}Mg ; Projectile: π^- , $E=162.75$ MeV; many 4-hour runs were taken, measured missing mass spectrum at $\theta=5^\circ$ using magnetic mass spectrometer, measured ^{26}Ne mass excess of 0.44 MeV 7.

 ^{26}Ne Levels

E(level)	J^π	Comments
0.0	0^+	
3750	(0^+)	E(level): Probably a doublet of 3691 and 3815 keV levels. New 0^+ state at 3815.2 keV in Adopted Levels established from ^{26}F β^- decay (9.7 ms). J^π : Proposed in 1980Na12 from shell model predictions at 5280 keV. $J^\pi=2^+$ in Adopted Levels.