

Coulomb excitation [2012To06](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 114, 1189 (2013)	1-Apr-2013

^{28}Mg was obtained as a contaminant with a secondary beam ^{28}S , $E=53$ MeV/nucleon. ^{28}Mg was produced from projectile fragmentation of ^{36}Ar beam, $E=115$ MeV/nucleon, on a Be target. Separated by the RIKEN Projectile-Fragment Separator (RIPS), beam bombarded a Pb target. Gamma rays were detected by an array of 160 NaI(Tl) scintillator crystals (DALI2). Measured time of flight, energy loss, magnetic rigidity. Deduced B(E2) transition strength.

 ^{28}Mg Levels

E(level) [†]	J ^π [†]	T _{1/2}	Comments
0.0	0 ⁺		
1473.54 10	2 ⁺	0.93 ps 15	B(E2) _↑ =0.044 7 (2012To06) T _{1/2} : Deduced by the evaluator from B(E2) and Adopted γ -ray properties.

[†] From Adopted Levels.

 $\gamma(^{28}\text{Mg})$

E _{γ}	E _i (level)	J _i ^π	E _f	J _f ^π	Mult.	Comments
1473.5 1	1473.54	2 ⁺	0.0	0 ⁺	E2	E _{γ} : From Adopted Gammas.

Coulomb excitation [2012To06](#)Level Scheme