

$^{24}\text{Mg}(\text{d,t})$ [1972Ne18](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia [#] , A. Chakraborty ^{##}		NDS 171, 1 (2021)	1-Jun-2020

Other: [1978Co13](#) (pol d,t).

[1972Ne18](#): $^{24}\text{Mg}(\text{d,t})$ E=21.1 MeV. Self-supporting 99.96% enriched ^{24}Mg target (thickness about $370 \mu\text{g}/\text{cm}^2$) was used. Measured $\sigma(\theta)$. Performed CCBA and DWBA analysis. FWHM 42-55 keV.

 ^{23}Mg Levels

E(level) [†]	J ^π [‡]	C ² S	Comments
0.0	3/2 ⁺	0.33	
450	5/2 ⁺	2.2	J ^π : From the vector analyzing power data and DWBA predictions (1978Co13).
2050	7/2 ⁺		
2360	1/2 ⁺	0.18	
2710	9/2 ⁺		
2770	1/2 ⁻	2.3	
2900	3/2 ⁺	0.14	
3790	3/2 ⁻	0.36	
3860	(5/2 ⁺)	0.014	
3970	(5/2 ⁻)		
4350	1/2 ⁺	0.053	
4680	(7/2 ⁺)		
5290	(5/2 ⁺)		C ² S: 0.21 from shell model calculations.
5450	(11/2 ⁺)		

[†] As listed in [1972Ne18](#).

[‡] From comparison of measured angular distributions with coupled-channel Born approximation (CCBA) and DWBA calculations.