

^{28}Mg $Z = 12$ $N = 16$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 231.629 (0.000) MeV

Qbeta- = 1.831 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
28MG 1	0.000	0+			1 20.915 H 9
28MG 2	1.474	2+			2 1.2 PS 1
28MG 3	3.862	0+			3 0.55 PS 7
28MG 4	4.021	4+			4 105 FS 35
28MG 5	4.555	2+			5 0.03 PS LT
28MG 6	4.561	1+			6
28MG 7	4.879	2+			7 0.08 PS LT
28MG 8			5.171 3-		8 0.11 PS 9
28MG 9				5.185	9
28MG 10				5.193 1	10 0.02 PS LT
28MG 11	5.270	1+			11 0.1 PS LT
28MG 12				5.470 2	12
28MG 13	5.673	2+			13
28MG 14	5.702	0+			14 0.21 PS 3
28MG 15				5.917 (0,1,2)+	15
28MG 16				6.135	16
28MG 17				6.416	17
28MG 18				6.516	18
28MG 19				6.545 (2+)	19
28MG 20				6.599	20
28MG 21				6.708	21
28MG 22				6.759	22
28MG 23				7.201 (0,1,2)+	23
28MG 24				7.462 (2+)	24
28MG 25				8.439 (6+)	25

S-p = 16.791 (0.004)-----
 S-n = 8.505 (0.000)-----
 S-2p = 30.079 (0.018)-----
 S-2n = 14.948 (0.000)-----
 S-alpha= 11.493 (0.001)-----

S+p = -10.477 (0.000)
 S+n = -3.664 (0.000)
 S+2p = -23.991 (0.000)
 S+2n = -10.004 (0.001)
 S+alpha = -11.483 (0.000)

gap p = 6.314 (0.004)
gap n = 4.841 (0.001)
gap 2p = 6.088 (0.018)
gap 2n = 4.944 (0.001)
gap alpha = 0.011 (0.001)