

^{30}Mg $Z = 12$ $N = 18$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 241.633 (0.001) MeV

Qbeta- = 6.983 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2

30MG 1	0.000	0+			1 335 MS 17
30MG 2	1.483	2+			2 1.5 PS 2
30MG 3	1.788	0+			3 3.9 NS 4
30MG 4	2.468	(2+)			4 5 PS LT
30MG 5				2.543 (2-,3-)	5
30MG 6				3.304	6
30MG 7	3.381	(4+)			7
30MG 8	3.461	(4+)			8
30MG 9				3.542 (1,2)+	9
30MG 10				4.183 (5)	10

30MG 11				4.260	11
30MG 12				4.359	12
30MG 13				4.415 (1,2)+	13
30MG 14				4.968 (1,2)+	14
30MG 15				5.021 (1,2)+	15
30MG 16				5.094 (1,2)+	16
30MG 17				5.313	17
30MG 18				5.413 (1,2)+	18

S-p = 18.850 (0.007) -----

S-n = 6.340 (0.001) -----

S-2p = 34.759 (0.126) -----

S-2n = 10.004 (0.001) -----

S-alpha= 11.787 (0.018) -----

S+p = -13.358 (0.003)

S+n = -2.312 (0.003)

S+2p = -29.774 (0.001)

S+2n = -8.090 (0.004)

S+alpha = -13.535 (0.002)

gap p = 5.492 (0.008)

gap n = 4.028 (0.004)

gap 2p = 4.985 (0.126)

gap 2n = 1.914 (0.004)

gap alpha = -1.748 (0.019)