

$^{30}\text{Mg}$        $Z = 12$        $N = 18$       [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 241.635 ( 0.003) MeV

Qbeta- = 6.981 ( 0.004) 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 = 18.853 ( 0.008)-----  
 S-n = 6.352 ( 0.012)-----  
 S-2p = 34.761 ( 0.126)-----  
 S-2n = 10.008 ( 0.004)-----  
 S-alpha= 11.790 ( 0.019)-----

S+p = -13.356 ( 0.004)  
 S+n = -2.310 ( 0.005)  
 S+2p = -29.772 ( 0.003)  
 S+2n = -8.088 ( 0.005)  
 S+alpha = -13.498 ( 0.015)

gap p = 5.497 ( 0.009)  
 gap n = 4.043 ( 0.013)  
 gap 2p = 4.990 ( 0.126)  
 gap 2n = 1.920 ( 0.006)  
 gap alpha = -1.708 ( 0.024)