

^{31}Mg $Z = 12$ $N = 19$ [link to full NNDC output](#)

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

BE = 243.945 (0.003) MeV

Qbeta- = 11.829 (0.004) MeV

	Energy T	J+	J-	J-other	T1/2	
31MG 1				0.000	1/2(+)	1 236 MS 20
31MG 2				0.050	(3/2+)	2 16 NS 3
31MG 3				0.221	(3/2-)	3 133 PS 8
31MG 4				0.461	(7/2-)	4 10.5 NS 8
31MG 5				0.673	(3/2+)	5
31MG 6				0.945	(5/2+)	6
31MG 7				1.029	(1/2:7/2-)	7
31MG 8				1.155	(7/2+)	8
31MG 9				1.390		9
31MG 10				2.014	(5/2+)	10
31MG 11				2.243	(1/2+,3/2+,5/2+)	11)
S-n	=	2.310 (0.005)				
31MG 12				3.760	(1/2+,3/2+,5/2+)	12)
31MG 13				3.815	(1/2+,3/2+,5/2+)	13)

S-p = 18.886 (0.006)

S-n = 2.310 (0.005)

S-2p = 36.100 (0.150)

S-2n = 8.662 (0.012)

S-alpha = 12.598 (0.091)

S+p = -15.266 (0.008)

S+n = -5.778 (0.004)

S+2p = -31.970 (0.003)

S+2n = -8.058 (0.004)

S+alpha = -13.694 (0.036)

gap p = 3.620 (0.010)

gap n = -3.468 (0.006)

gap 2p = 4.130 (0.150)

gap 2n = 0.604 (0.013)

gap alpha = -1.096 (0.098)