

^{31}Mg $Z = 12$ $N = 19$ adopted link ENSDF link

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

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+			1 270 MS 2
31MG 2	0.050	3/2+			2 12.0 NS 4
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				0.942 (1/2-,3/2-)	6
31MG 7	0.944	5/2+			7
31MG 8				1.029 (1/2-,3/2-)	8
31MG 9				1.154 (7/2+)	9
31MG 10				1.390	10
31MG 11				1.436 (1/2-,3/2-)	11
31MG 12	2.015	5/2+			12
31MG 13	2.244	1/2+			13

S-p = 18.886 (0.006)-----
 S-n = 2.312 (0.003)-----
 S-2p = 36.100 (0.150)-----
 S-2n = 8.652 (0.003)-----
 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 = -3.466 (0.006)
 gap 2p = 4.130 (0.150)
 gap 2n = 0.595 (0.005)
 gap alpha = -1.096 (0.098)