

^{32}Mg $Z = 12$ $N = 20$ adopted link ENSDF link

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

BE = 249.723 (0.003) MeV

Qbeta- = 10.270 (0.008) MeV

	Energy T	J+	J-	J-other	T1/2
32MG 1	0.000	0+			1 86 MS 5
32MG 2	0.885	2+			2 11.4 PS 20
32MG 3	1.058	0+			3 7 NS GT
32MG 4	2.322	4+			4
32MG 5				2.551 (1,2+)	5
32MG 6				2.858 (1-,3-)	6
32MG 7				3.038 (2-,3-)	7
32MG 8				3.117 (3-,4+)	8
32MG 9				3.490 (1-,2+)	9
32MG 10				3.552	10
32MG 11				4.215 (3-,4+)	11
32MG 12				4.784	12
32MG 13				4.819 (2-,3-)	13
32MG 14				5.169 (2+,3-)	14
32MG 15				5.203 (2+,3-)	15

S-p = 20.364 (0.014)-----

S-n = 5.778 (0.004)-----

S-2p = 38.687 (0.253)-----

S-2n = 8.090 (0.004)-----

S-alpha= 14.554 (0.126)-----

S+p = -14.957 (0.008)

S+n = -2.280 (0.004)

S+2p = -33.741 (0.003)

S+2n = -6.990 (0.008)

S+alpha = -14.032 (0.072)

gap p = 5.406 (0.016)

gap n = 3.499 (0.006)

gap 2p = 4.946 (0.253)

gap 2n = 1.100 (0.008)

gap alpha = 0.521 (0.145)