

^{22}Mg $Z = 12$ $N = 10$ adopted link ENSDF link

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

BE = 168.581 (0.000) MeV

Qbeta+ = 4.781 (0.000) MeV

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

22MG	1	0.000	0+		1 3.8755 S 12
22MG	2	1.247	2+		2 2.0 PS 8
22MG	3	3.308	4+		3 200 FS 45
22MG	4	4.402	2+		4 21 FS LT
22MG	5	5.035	2+		5 0.07 NS LT
22MG	6			5.089 (1+)	6
22MG	7			5.293 (4+)	7 44 FS 15
22MG	8			5.296 (2-)	8
22MG	9			5.318 (1,2,3)	9 17 NS LT
22MG	10			5.452 (3+)	10 0.07 NS LT

S-p	=	5.504 (0.000)			
22MG	11	5.711	2+		11 28 FS 10
22MG	12			5.838 2+,3,4+	12 17 NS LT
22MG	13	5.954	0+		13
22MG	14			6.043 (0+)	14
22MG	15			6.226 (4+)	15
22MG	16			6.243	16
22MG	17	6.254	6+		17
22MG	18	6.313	4+		18 17 NS LT
22MG	19			6.326 (1+)	19 13.6 KEV 14
22MG	20			6.476	20

22MG	21			6.578 (1-)	21 12.8 KEV 15
22MG	22			6.608 (2+)	22 17.9 KEV 16
22MG	23			6.724	23
22MG	24			6.766 (3-)	24 105 KEV 33
22MG	25			6.865 (3+)	25
22MG	26			6.876 (1-)	26
22MG	27			6.983 (3-)	27
22MG	28			7.027 [3+]	28
22MG	29			7.048 [4+]	29
22MG	30			7.060	30

22MG	31			7.079 [1-]	31
22MG	32			7.132 (5+)	32
22MG	33	7.218	0+		33
22MG	34			7.254 (1-)	34
22MG	35			7.338 (2+)	35
22MG	36			7.384 (3-)	36

22MG	37				7.573		37
22MG	38				7.600	(2+)	38
22MG	39				7.674	(1-)	39
22MG	40				7.741		40

22MG	41				7.810	(2-)	41
22MG	42				7.928	[2+]	42
S-2p	=	7.936	(0.000)	-----			
22MG	43				8.007	[3-]	43
22MG	44				8.062		44
S-alpha=	8.143	(0.000)	-----				
22MG	45				8.180	[2+]	45
22MG	46				8.290		46
22MG	47				8.398	[2+]	47
22MG	48				8.519	(3-)	48
22MG	49				8.579		49
22MG	50				8.658		50

22MG	51				8.727	(2+)	51
22MG	52				8.743	[4+]	52
22MG	53				8.785	[1-]	53
22MG	54				8.827	(1-)	54
22MG	55				8.933	[2+]	55
22MG	56				8.991	(1-)	56
22MG	57				9.080		57
22MG	58				9.157	(4+)	58
22MG	59				9.248		59
22MG	60				9.318		60

22MG	61				9.378		61
22MG	62				9.452		62
22MG	63				9.481	[3-]	63
22MG	64				9.529		64
22MG	65				9.640		65
22MG	66				9.712	[0+]	66
22MG	67				9.752	(2+, 1+)	67
22MG	68				9.859	[0+]	68
22MG	69				9.960		69

S-p	=	5.504	(0.000)	-----			
S-n	=	19.375	(0.001)	-----			
S-2p	=	7.936	(0.000)	-----			
S-2n	=	34.020	(0.002)	-----			
S-alpha=	8.143	(0.000)	-----				

S+p	=	-0.141	(0.000)				
S+n	=	-13.145	(0.000)				
S+2p	=	-3.433	(0.019)				
S+2n	=	-29.676	(0.000)				

S+alpha = -9.166 (0.000)

gap p = 5.363 (0.000)

gap n = 6.230 (0.001)

gap 2p = 4.503 (0.019)

gap 2n = 4.344 (0.002)

gap alpha = -1.023 (0.000)