

^{25}Mg $Z = 12$ $N = 13$ adopted link ENSDF link

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

BE = 205.588 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
25MG 1	0.000	5/2+			1 STABLE
25MG 2	0.585	1/2+			2 3.38 NS 6
25MG 3	0.975	3/2+			3 10.1 PS 10
25MG 4	1.612	7/2+			4 17 FS 3
25MG 5	1.965	5/2+			5 0.70 PS 6
25MG 6	2.563	1/2+			6 10 FS 5
25MG 7	2.738	7/2+			7 290 FS 30
25MG 8	2.801	3/2+			8 26 FS 3
25MG 9	3.405	9/2+			9 7.7 FS 7
25MG 10			3.413 3/2-		10 7 FS 3
25MG 11	3.908	5/2+			11 6 FS 2
25MG 12			3.971 7/2-		12 22 FS 5
25MG 13	4.060	9/2+			13 47 FS 5
25MG 14			4.277 1/2-		14 4 FS LT
25MG 15	4.360	3/2+			15 7 FS LT
25MG 16	4.712	9/2+			16 26 FS 3
25MG 17				4.722 5/2+,3/2+	17 7 FS LT
25MG 18				5.012 (7/2)+	18 7 FS LT
25MG 19			5.117 1/2-		19 7 FS LT
25MG 20	5.252	11/2+			20 15 FS 2
25MG 21	5.461	13/2+			21 1.44 PS 13
25MG 22	5.475	1/2+			22 7 FS LT
25MG 23			5.521 5/2-		23 46 FS 6
25MG 24	5.534	11/2+			24 6 FS 2
25MG 25				5.746 7/2+,9/2+	25 7 FS LT
25MG 26				5.748 3/2+,5/2+	26 7 FS LT
25MG 27			5.793 7/2-		27 37 FS 7
25MG 28	5.860	5/2+			28 7 FS LT
25MG 29	5.972	9/2+			29 7 FS LT
25MG 30	5.980	7/2+			30 7 FS LT
25MG 31				6.041 7/2+,11/2+	31 6 FS LT
25MG 32	6.082	5/2+			32 7 FS LT
25MG 33				6.169 3/2	33 7 FS LT
25MG 34				6.362 3/2	34 7 FS LT
25MG 35	6.434	9/2+			35 7 FS LT
25MG 36			6.468 3/2-		36 7 FS LT
25MG 37				6.570 (1/2,3/2)+	37 7 FS LT
25MG 38				6.678 5/2	38 40 FS LT

25MG	39		6.777	1/2+						39	7 FS	LT
25MG	40							6.832	(3/2-, 5/2)	40	28 FS	LT

25MG	41							6.840	5/2	41	7 FS	LT
25MG	42							6.862		42	9 FS	LT
25MG	43							6.885		43	97 FS	42
25MG	44					6.914	5/2-			44		
25MG	45					6.958	5/2-			45	7 FS	LT
25MG	46							7.038	5/2	46	21 FS	LT
25MG	47							7.089	(3/2, 5/2)+	47	7 FS	LT
25MG	48							7.182	(3/2, 5/2)	48	28 FS	LT
25MG	49							7.185		49	14 FS	LT
25MG	50							7.228	(3/2, 5/2)+	50	7 FS	LT

25MG	51		7.265	1/2+						51		
25MG	52					7.286	7/2-			52	7 FS	LT
S-n	=		7.331	(0.000)								

25MG	53		7.375	3/2+						53	1.9 EV	2
25MG	54					7.396	1/2-			54		
25MG	55					7.411	3/2-			55	7.2 KEV	5
25MG	56							7.493	11/2(+)	56	21 FS	8
25MG	57							7.500	(5/2)	57	3 EV	
25MG	58							7.525	(5/2, 7/2)+	58	10 FS	LT
25MG	59							7.551	(13/2)+	59	21 FS	LT
25MG	60		7.577	5/2+						60	40 EV	5

25MG	61					7.586	1/2-			61	85 KEV	15
25MG	62							7.634	3/2+, 5/2+, 7/2+	62	50 FS	LT
25MG	63							7.653	9/2	63	21 FS	LT
25MG	64							7.685		64		
25MG	65					7.744	3/2-			65	31 KEV	3
25MG	66		7.787	3/2 5/2+						66	15 EV	1
25MG	67							7.801	9/2	67	12 FS	LT
25MG	68					7.809	3/2-			68	0.5 KEV	1
25MG	69		7.839	7/2+						69	28 FS	LT
25MG	70		7.864	3/2 3/2+						70	9 EV	3

25MG	71							7.866	(7/2, 11/2)+	71	12 FS	LT
25MG	72					7.947	1/2-			72	0.9 KEV	2
25MG	73		7.961	7/2+						73	14 FS	LT
25MG	74		7.963	1/2+						74	21 KEV	2
25MG	75							8.011	(9/2, 13/2+)	75	37 FS	4
25MG	76							8.076	5/2+, 7/2+, 9/2+	76	14 FS	LT
25MG	77							8.119	(7/2)+	77	10 FS	LT
25MG	78		8.141	3/2+						78	13 KEV	5
25MG	79							8.244	(3/2, 5/2)+	79		
25MG	80							8.267	(7/2, 9/2)+	80	10 FS	LT

25MG	81		8.311	5/2+						81	1.2 KEV	1
25MG	82							8.317	(3/2, 5/2)+	82		

25MG 83		8.324	1/2+					83	14 KEV	4
25MG 84						8.351	(3/2+,5/2+)	84		
25MG 85		8.363	1/2+					85	18 KEV	6
25MG 86						8.400		86		
25MG 87						8.447		87		
25MG 88						8.532	(7/2,11/2)+	88	10 FS	LT
25MG 89						8.548	(5/2,7/2,9/2)+	89	17 FS	LT
25MG 90		8.551	11/2+					90	5 FS	LT

25MG 91						8.552	(1/2)	91	8 KEV	4
25MG 92		8.559	5/2+					92	1.8 KEV	1
25MG 93					8.570	3/2-		93	4.2 KEV	2
25MG 94		8.580	3/2+					94	8 KEV	4
25MG 95						8.597	(3/2+,5/2+)	95		
25MG 96						8.656	7/2	96	10 FS	LT
25MG 97						8.705		97		
25MG 98						8.811	9/2,11/2	98	8 FS	LT
25MG 99		8.835	3/2 1/2+					99	50 KEV	10
25MG 100					8.870	1/2-		100	15 KEV	1

25MG 101						8.888	(7/2,9/2+,11/2)	101	17 FS	LT
25MG 102					8.894	3/2-		102	32 KEV	8
25MG 103						8.896	7/2-,9/2-	103	17 FS	8
25MG 104		8.971	5/2+					104	16 KEV	4
25MG 105						9.000		105	9 FS	LT
25MG 106						9.013	7/2,9/2,11/2	106	5 FS	LT
25MG 107						9.014	(1/2,3/2)-	107	10 KEV	LT
25MG 108						9.072		108	18 KEV	4
25MG 109						9.326		109		
25MG 110						9.410	9/2,11/2,13/2	110	12 FS	8

25MG 111						9.503		111		
25MG 112						9.651		112	5 FS	LT
25MG 113						9.685	(7/2,9/2,11/2)+	113	5 FS	LT
25MG 114						9.830		114		
S-alpha=		9.886	(0.000)	-----	-----	-----	-----	-----	-----	-----
25MG 115						9.947	(15/2)+	115		

S-p = 12.064 (0.000)-----
S-n = 7.331 (0.000)-----
S-2p = 22.617 (0.000)-----
S-2n = 23.862 (0.000)-----
S-alpha= 9.886 (0.000)-----

S+p = -6.306 (0.000)
S+n = -11.093 (0.000)
S+2p = -13.770 (0.000)
S+2n = -17.536 (0.000)
S+alpha = -11.127 (0.000)

gap p = 5.758 (0.000)
gap n = -3.763 (0.000)
gap 2p = 8.847 (0.000)
gap 2n = 6.325 (0.000)
gap alpha = -1.241 (0.000)