

^{101}Mo $Z = 42$ $N = 59$ adopted link ENSDF link

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

BE = 865.865 (0.000) MeV

Qbeta- = 2.825 (0.024) MeV

	Energy T	J+	J-	J-other	T1/2
101MO	1 0.000	1/2+			1 14.61 M 3
101MO	2 0.013	3/2+			2 226 NS 7
101MO	3 0.057	5/2+			3 133 NS 70
101MO	4 0.171	5/2+			4
101MO	5			0.238 3/2+,5/2+	5
101MO	6 0.241	7/2+			6
101MO	7		0.273 11/2-		7 95 NS 15
101MO	8 0.290	3/2+			8
101MO	9			0.294 1/2+,3/2,5/2+	9
101MO	10 0.295	1/2+			10
101MO	11			0.315 7/2,9/2+	11
101MO	12			0.319 (5/2)+	12
101MO	13 0.352	3/2+			13
101MO	14 0.449	1/2+			14
101MO	15 0.455	5/2+			15
101MO	16 0.480	3/2+			16
101MO	17 0.540	1/2+			17
101MO	18			0.563 9/2-,11/2-	18
101MO	19 0.568	5/2+			19
101MO	20 0.569	1/2+			20
101MO	21			0.583 7/2+,9/2+	21
101MO	22			0.586 1/2,3/2,5/2+	22
101MO	23			0.626 7/2,9/2+	23
101MO	24		0.702 15/2-		24
101MO	25			0.710 (1/2+)	25
101MO	26			0.797 1/2+,3/2,5/2	26
101MO	27			0.811 (1/2-,3/2-)	27
101MO	28			0.823 1/2+,3/2+,5/2+	28
101MO	29			0.830 7/2+,9/2+	29
101MO	30			0.854 1/2+,3/2+,5/2+	30
101MO	31			0.868 3/2+,5/2+	31
101MO	32			0.903 1/2+,3/2+,5/2+	32
101MO	33			0.910 3/2+,5/2+	33
101MO	34			0.914 7/2+,9/2+	34
101MO	35			0.975 1/2,3/2,5/2	35
101MO	36 0.984	3/2+			36
101MO	37			1.011 (1/2+)	37

101MO 38		1.047	1/2+					38
101MO 39						1.054	1/2,3/2,5/2	39
101MO 40						1.099	1/2,3/2	40

101MO 41		1.109	3/2+					41
101MO 42						1.117	3/2,5/2	42
101MO 43						1.199	1/2,3/2,5/2,7/2	43
101MO 44						1.230	3/2,5/2	44
101MO 45						1.281	3/2,5/2	45
101MO 46					1.291	3/2-		46
101MO 47					1.318	19/2-		47
101MO 48					1.334	5/2-		48
101MO 49						1.350	(1/2,3/2)	49
101MO 50						1.447	3/2,5/2	50

101MO 51						1.459	9/2-,11/2-	51
101MO 52						1.560		52
101MO 53						1.620		53
101MO 54						1.632		54
101MO 55						1.636		55
101MO 56						1.687		56
101MO 57						1.700		57
101MO 58						1.826		58
101MO 59						1.847		59
101MO 60						1.861		60

101MO 61						1.979		61
101MO 62						2.072		62
101MO 63					2.090	23/2-		63
101MO 64						2.110		64
101MO 65					2.981	27/2-		65

S-alpha=		3.008	(0.000)					
101MO 66					3.962	31/2-		66
101MO 67					5.031	35/2-		67

S-p	=	11.018	(0.008)					
S-n	=	5.398	(0.000)					
S-2p	=	20.481	(0.011)					
S-2n	=	13.693	(0.000)					
S-alpha=		3.008	(0.000)					

S+p	=	-8.342	(0.009)					
S+n	=	-8.112	(0.008)					
S+2p	=	-18.325	(0.001)					
S+2n	=	-13.577	(0.009)					
S+alpha	=	-4.839	(0.003)					

gap p	=	2.676	(0.012)					
gap n	=	-2.714	(0.008)					

gap 2p = 2.156 (0.011)
gap 2n = 0.115 (0.009)
gap alpha = -1.831 (0.003)