^{99}Mo $Z = 42$ $N = 57$ adopted link ENSDF link

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

BE = 852.172 (0.000) MeV
Qbeta- = 1.358 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
99MO 1	0.000	1/2+			1 65.924 H 6
99MO 2	0.098	5/2+			2 15.5 US 2
99MO 3	0.236	7/2+			3 0.87 NS 15
99MO 4	0.351	3/2+			4 0.23 NS 17
99MO 5	0.525	1/2+			5
99MO 6	0.549	3/2+			6 0.030 NS 25
99MO 7	0.615	5/2+			7
99MO 8	0.632	3/2+			8
99MO 9			0.684 11/2-		9 0.76 US 6
99MO 10				0.698 (7/2+)	10
99MO 11				0.752 (3/2+,5/2+)	11
99MO 12			0.754 7/2-		12
99MO 13	0.793	3/2+			13
99MO 14				0.798	14
99MO 15				0.866 (7/2+)	15
99MO 16	0.891	3/2+			16
99MO 17	0.905	1/2+			17
99MO 18				0.906 (9/2)+	18
99MO 19				0.924 3/2+,5/2+	19
99MO 20	0.945	5/2+			20
99MO 21				0.952 -	21
99MO 22				1.026 (5/2+)	22
99MO 23			1.030 3/2-		23
99MO 24	1.048	7/2+			24
99MO 25				1.143 (7/2+)	25
99MO 26				1.148 5/2-,7/2-	26
99MO 27				1.165 (15/2)-	27
99MO 28	1.167	5/2+			28
99MO 29				1.196	29
99MO 30	1.198	3/2+			30
99MO 31	1.254	5/2+			31
99MO 32	1.261	1/2+			32
99MO 33				1.272	33
99MO 34				1.280	34
99MO 35				1.283	35
99MO 36				1.314 (11/2)+	36
99MO 37				1.343 (7/2)+	37

99MO	38				1.353		38
99MO	39				1.354		39
99MO	40				1.368		40
99MO	41				1.383	3/2+,5/2+	41
99MO	42				1.401	(7/2+)	42
99MO	43				1.405	(17/2)	43
99MO	44				1.442	(3/2,5/2)+	44
99MO	45				1.449	3/2+,5/2+	45
99MO	46				1.455	3/2+,5/2+	46
99MO	47				1.464	(9/2)+	47
99MO	48				1.467	1/2+,3/2+,5/2	48
99MO	49				1.472	(11/2)+	49
99MO	50	1.493	5/2+				50
99MO	51				1.533	3/2+,5/2+	51
99MO	52				1.536		52
99MO	53	1.545	5/2+				53
99MO	54				1.561	1/2,3/2,5/2+	54
99MO	55				1.571	1/2,3/2,5/2+	55
99MO	56	1.580	3/2+				56
99MO	57				1.618	(3/2-,5/2-,7/2-)	57
99MO	58				1.635	3/2+,5/2+	58
99MO	59			1.639	9/2-		59
99MO	60				1.661		60
99MO	61				1.676		61
99MO	62				1.679	(13/2+)	62
99MO	63				1.682	(3/2+,5/2+)	63
99MO	64				1.710	3/2+,5/2+	64
99MO	65				1.722	1/2-,3/2-	65
99MO	66				1.742		66
99MO	67				1.755	3/2+,5/2+	67
99MO	68				1.778	5/2-,7/2-	68
99MO	69				1.799	7/2+,9/2+	69
99MO	70				1.813		70
99MO	71				1.828	+	71
99MO	72				1.845		72
99MO	73				1.858	(9/2,11/2)+	73
99MO	74				1.858	(19/2-)	74
99MO	75				1.885	(15/2-)	75
99MO	76				1.893	(3/2-)	76
99MO	77				1.909	1/2-,3/2-	77
99MO	78	1.932	1/2+				78
99MO	79				1.934	7/2+,9/2+	79
99MO	80	1.949	1/2+				80
99MO	81	1.965	1/2+				81
99MO	82				1.987		82

99MO	83				2.000		83	
99MO	84				2.024	3/2-,5/2-,7/2-	84	
99MO	85				2.056	3/2-,5/2-,7/2-	85	
99MO	86				2.060		86	
99MO	87				2.078	9/2-,11/2-	87	
99MO	88				2.103	7/2+,9/2+	88	
99MO	89		2.134	3/2-			89	
99MO	90				2.160	7/2+,9/2+	90	
99MO	91				2.175	9/2-,11/2-	91	
99MO	92				2.180		92	
99MO	93				2.218	-	93	
99MO	94				2.221	(17/2-)	94	
99MO	95				2.232	(15/2)	95	
99MO	96				2.299		96	
99MO	97				2.319		97	
99MO	98				2.340	1/2,3/2	98	
99MO	99				2.409	(17/2+)	99	
99MO	100				2.436	1/2-,3/2-	100	
99MO	101				2.441	(13/2)	101	
99MO	102	2.482	1/2+				102	
99MO	103				2.517	7/2+,9/2+	103	
99MO	104				2.531	1/2-,3/2-	104	
99MO	105				2.595	1/2-,3/2-	105	
99MO	106				2.641	(3/2)-	106	
99MO	107				2.687	(3/2)-	107	
99MO	108				2.705	(23/2-)	108	
99MO	109				2.730	(3/2)-	109	
S-alpha=		2.735 (0.001)						
99MO	110				2.786	1/2-,3/2-	110	
99MO	111				2.797	3/2+,5/2+	111	
99MO	112		2.852	3/2-			112	
99MO	113				2.870	1/2-,3/2-	113	
99MO	114				2.925	1/2-,3/2-	114	
99MO	115				2.944	1/2,3/2	115	
99MO	116				2.990	(1/2-,3/2-)	116	
99MO	117				3.010	(27/2-)	117	8 NS 2
99MO	118				3.066	3/2+,5/2+	118	
99MO	119				3.130	(7/2+,9/2+)	119	
99MO	120				3.214	7/2+,9/2+	120	
99MO	121				3.260		121	
99MO	122				3.305	(1/2-,3/2-)	122	
99MO	123				3.358	1/2-,3/2-	123	
99MO	124				3.397	(1/2-,3/2-)	124	
99MO	125				3.483	7/2+,9/2+	125	
99MO	126				3.623	(1/2-,3/2-)	126	
99MO	127				3.666	7/2+,9/2+	127	

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 99MO 128 |                |                |   3.685     (27/2-)         128
 99MO 129 |                |                |   3.707                     129
 99MO 130 |                |                |   3.753     1/2-,3/2-       130
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 99MO 131 |                |                |   3.817     7/2+,9/2+       131
 99MO 132 |                |                |   3.918                     132
 99MO 133 |                |                |   4.002     1/2-,3/2-       133
 99MO 134 |                |                |   4.062     1/2-,3/2-       134
 99MO 135 |                |                |   4.140     1/2-,3/2-       135
 99MO 136 |                |                |   4.179     1/2-,3/2-       136
 99MO 137 |                |                |   4.241     1/2-,3/2-       137
 99MO 138 |                |                |   4.749     (31/2-)         138
 99MO 139 |                |                |   5.795     (35/2-)         139
S-n    =   5.925 ( 0.000)-------------------------------------------------------------------------
 99MO 140 |                |                |   6.896     (39/2-)         140
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 99MO 141 |                |                |   8.118     (43/2-)         141


S-p    =   9.734 ( 0.005)-------------------------------------------------------------------------
S-n    =   5.925 ( 0.000)-------------------------------------------------------------------------
S-2p   =  17.611 ( 0.000)-------------------------------------------------------------------------
S-2n   =  14.568 ( 0.000)-------------------------------------------------------------------------
S-alpha=   2.735 ( 0.001)-------------------------------------------------------------------------

S+p       =  -7.340 ( 0.001)
S+n       =  -8.294 ( 0.000)
S+2p      = -16.566 ( 0.000)
S+2n      = -13.693 ( 0.000)
S+alpha   =  -3.722 ( 0.000)

gap p     =   2.395 ( 0.005)
gap n     =  -2.369 ( 0.000)
gap 2p    =   1.045 ( 0.001)
gap 2n    =   0.875 ( 0.000)
gap alpha =  -0.987 ( 0.001)
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